

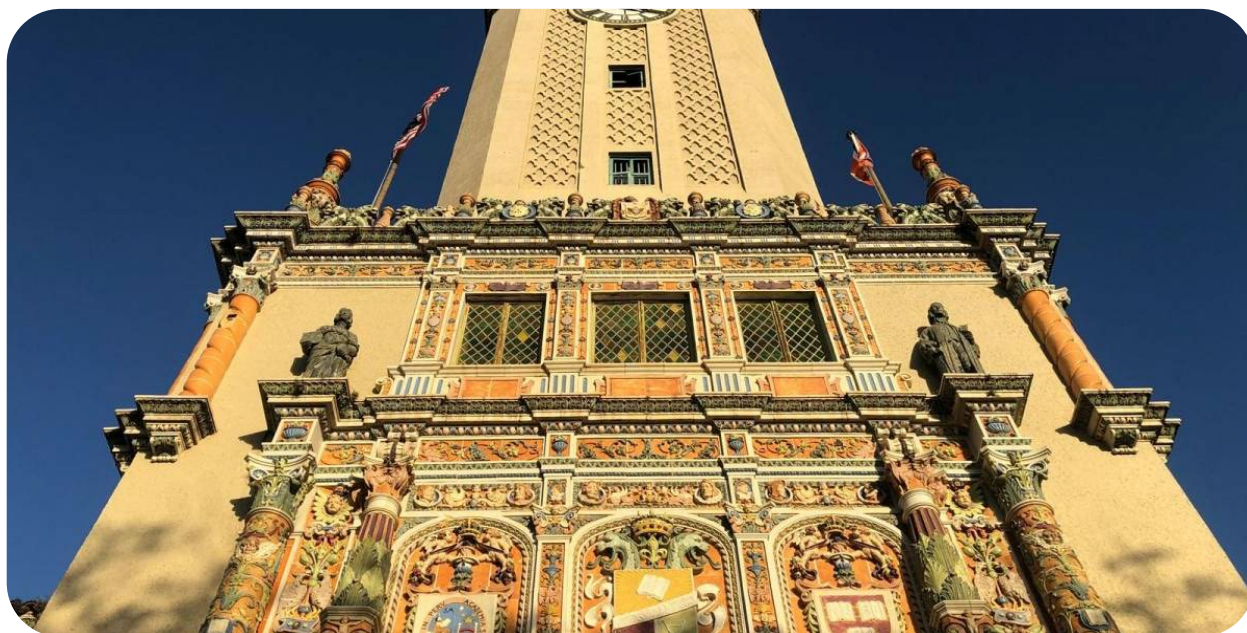
**UNIVERSITY OF PUERTO RICO**  
**RIO PIEDRAS CAMPUS**



**CATALOG 2022 - 2023**

**UNDERGRADUATE**  
**GRADUATE**

**UNIVERSITY OF PUERTO RICO**  
**RIO PIEDRAS CAMPUS**



**UNDERGRADUATE CATALOG 2022 - 2023**

## Table of Contents

COLLEGE OF HUMANITIES .....	3
COLLEGE OF BUSINESS ADMINISTRATION .....	139
SCHOOL OF ARCHITECTURE .....	180
MILITARY SCIENCES .....	194
COLLEGE OF NATURAL SCIENCES .....	198
COLLEGE OF COMMUNICATION AND INFORMATION .....	242
COLLEGE OF SOCIAL SCIENCES .....	254
COLLEGE OF EDUCATION .....	328
COLLEGE OF GENERAL STUDIES .....	407
GRADUATE SCHOOL OF PLANNING .....	453
COURSES WITH CREDIT – FREE ELECTIVES .....	454

## COLLEGE OF HUMANITIES

### **INTD3705 - Legislative Internship in Puerto Rico.**

*Six credits. Seven and a half hours of seminar and seven and a half hours of workshop per week.*

the student will be assigned to labor with a legislator or in a legislative office; such as the secretariat of the senate or the house or with any commission or research office. Also, the student will attend lectures on the legislative process and will be required to write a final essay about their experience. 12-08-97

### **INTD4000 - Congressional Internship-Cordova Program.**

*Nine credits. Thirty-five and a half hours of internship per week Prerequisites: INTD 4010.*

Internship in the United States of America congress. Each student will be placed as an intern in a particular congressman's office or in one of the congressional dependencies, such as the library, the office of science and technology or the office of congressional committees or subcommittees.

### **INTD4010 - Academic Seminar-Washington Center.**

*Three credits. Three hours of seminar per week Prerequisites: INTD 4000.*

This course will be an academic complement to the congressional internship. According to their academic or professional interest, each student will select one of the seminar courses offered each semester by experts through the Washington center.

### **INTD4012 - Law Clinic Internship I.**

*Three credits. Three hours.*

Law clinic internship at UPR or I. U. Law school. Each student will be placed and work in the law clinic and would attend to conference and workshops the student will produce a portfolio of the experience.

### **INTD4013 - Law School Internship II.**

*Three credits. Three hours*

Second part of the law clinic internship at UPR or I. U. Law school. Each student will be placed and work in the law clinic and would attend to conference and workshops. the student will produce a portfolio of the experience

### **INTD4994 - Internship Program: Work Experience.**

*Three credits. 20 hours of internship weekly.*

Elective course that represents the first look for the student to the work experience world around its discipline or academic program. the student will receive a stipend on 20 hours of work weekly.

### **INTD5000 - Internship HACU.**

*Nine credits. Forty hours per week for 16 weeks per semester.*

Each HACU internship participant will be assigned to work at a government or corporate office in the Washington, dc area or other work sites in the United States. 17-08-98

### **PREH3901 - Research Experience I.**

*Three credits. One hour of lecture and six hours of laboratory or workshop per week Prerequisites: AUTHORIZATION OF THE RESEARCHER AND OF THE DIRECTOR OF THE PROGRAM.*

Exposition to the research experience through participation in a project directed by a researcher.

### **PREH3902 - Research Experience II.**

*Three credits. One hour of lecture and six hours of laboratory or workshop per week Prerequisites: AUTHORIZATION OF THE RESEARCHER AND OF THE DIRECTOR OF THE PROGRAM.*

Exposition to the research experience through participation in a project directed by a researcher.

**PREH4005 - Theories, Methodology and Research Techniques.**

*Two credits. One hour of lecture and one hour of workshop per week.*

Introduction to basic elements of research in the sciences and the humanities to all students in the honor's program. Class discussion focuses on library research, research problem definition, theoretical models and methodological approaches, research techniques and data collection, and research proposal design and writing. Face-to-face, hybrid and online modalities. 13-08-02

**PREH4650 - the Process and Applications of Writing: Spanish.**

*Three credits. Three hours of lecture per week.*

Writing as process which includes the modes and patterns of thinking, the possible values of some logic notions as auxiliaries in writing and the semantic aspect of communication. It also includes the aspects related to information gathering, the organization of ideas and the handling of the different modes of elocution--description, narration, exposition, and argumentation. the course emphasizes the individualized teaching and student enrichment in the area of writing in Spanish, to prepare him/her for graduate studies, research or professional careers. Course face-to-face, hybrid and online modalities.

**PREH4655 - Advanced Writing Skills in English.**

*Three credits. One hour of lecture and two hours of workshop per week Prerequisites: DOMINIUM OF THE ENGLISH LANGUAGE AND BASIC SKILLS IN COMPOSITION.*

A course in advanced writing skills in English, stressing the conscious and deliberate use of those skills toward well-defined writing objectives. Course face-to-face, hybrid and online modalities.

**PREH4676 - Interdisciplinary Honors Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: HSPR MEMBERSHIP OR PERMISSION OF THE DIRECTOR OF HSPR.*

the seminar provides the student with the opportunity to write a research paper, under the supervision of a professor, on the interrelations of at least two different academic areas. It is intended that emphasis be given to clarity and rigor of expression and thought. The seminar is to lead to a well-founded perception of the different areas of thought in which it figures. This course can be taken up to five times (15 credits). (c) theme: science and sovereignty: history of their relationships and conceptualizations. Face-to-face, hybrid and online.

**PREH4685 - Course for Student Senators.**

*Three credits. Three hours of discussion per week*

This course is for students' senators in their second semester of their elect elective term. It is based on their active participation on the academic senate which in itself is an important formative experience. the course should strengthen the commitment with the campus on its academic, intellectual, cultural, and social development and promote an enriching dialogue in the context of the current historical conditions.

**PREH4900 - Individualize Studies.**

*One to 3 credits. May be repeated for*

the student undertakes a course of readings, or other individual work, on a topic of a particular interest to him, under the close guidance of an appropriate supervisor. the basic work of the course normally consists of regular meetings in which the student's reading, preparations and written work are examined critically. (c)

**PREH4980 - Honor Thesis.**

*Three credits. Three hours of lecture per week Prerequisites: HSPR MEMBERSHIP.*

the student undertakes independent research into a topic of particular interest to him under the supervision of a faculty member. the thesis is examined, in the manner of m. A. Thesis, by a committee competent to judge the aptness and treatment of the topic, the adequacy of the form of presentation, and the clarity and rigor of the language and thought.

### **PREH5000 - International Scientific Research Internship.**

*Twelve credits. Forty hours of lecture per week.*

Scientific internship at different international research facilities. Each student will be placed and work in a laboratory under the supervision of researcher at a foreign university, such as Cambridge, Salamanca among others. August 14, 2000.

### **ALEM3001 - Intensive German I.**

*Three credits. Five hours of lecture and two hours of laboratory work per week.*

Equivalent in content to the first and second year of German. One fifteen-minute daily period of oral practice with a native speaker of German. Supervised daily assignments. Grammar, intensive reading, composition and careful study of German idioms and other forms of expression in the language. (c) face to face, hybrid and online course

### **ALEM3002 - Intensive German II.**

*3 credits. Five hours of lecture and two hours of laboratory per week*

Continuation of the ALEM 3001 course. Emphasis is put on developing communicative competence by practicing the four functional skills of the German language (aural comprehension, oral expression, reading, written expression) and through contact with the culture. Face-to-face, hybrid and online course.

### **ALEM3011 - Experimental German.**

*3 credits. Five hours of conference and one hour and a half of workshop weekly.*

First year of German with an emphasis on reading, writing and oral practice at the corresponding level. (c)

### **ALEM3012 - Experimental German II.**

*3 credits. Five hours of conference and one hour and a half of laboratory weekly Prerequisites: ALEM 3011*

First year of German with an emphasis on reading, writing and oral practice at the corresponding level.

### **ALEM3035 - Intermediate German.**

*Three credits. Four hours of discussion per week Prerequisites: ALEM3001, ALEM3002*

in this course, students continue learning linguistic structures, enhancing their vocabulary and reading comprehension and practicing their oral and written communicative skills in German. This course will be offered face-to-face, hybrid and online modalities.

### **ALEM3052 - German Literature.**

*Three credits. Three hours of lecture per week Prerequisites: GERM 3013.*

Daily group discussion.

### **ALEM3801 - German as a Tool of Research.**

*Three credits. Three hours of lecture per week.*

Practice in the reading and writing of German, with special attention given to the construction of sentences and paragraphs.

### **ALEM3802 - German as a Tool of Research.**

*Three credits. Three hours of lecture per week Prerequisites: GERM 3801.*

Practice in the reading and writing of German, with special attention given to the construction of sentences and paragraphs.

### **ALEM4003 - Pragmatic Analysis of the Language of German Media.**

*3 credits. Three hours of seminar per week Prerequisites: ALEM 3035. IT MAY BE TAKEN CONCURRENTLY WITH OTHER GERMAN COURSE.*

This course is an advanced course of students who have completed the third semester of German or its equivalent. the course provides students with the language skills necessary to use, understand and master the language of German media. All four language skills-listening, speaking, reading, and writing-will be used and assessed. in addition, the use of modern technology in this course will also lead students to a better understanding of the culture in German- speaking countries. Face-to-face, hybrid and online course.

### **ALEM4005 - Goethe.**

*Three credits. Three hours of lecture per week Prerequisites: GERM 3013.*

Study of the esthetics, literary, historic and cultural aspects of Goethe's works considered within the context of his life.

### **ALEM4009 - Advanced Grammar and Composition.**

*Three credits. Two hours of discussion and one hour of advanced practice per week Prerequisites: GERM 3013.* Advanced practice in German grammar and composition, emphasizing stylistic and syntactic analysis. Face to face, hybrid, distance and online modalities. 19-08-96

### **ALEM4015 - Independent Study in German.**

*Three credits. Three hours of independent study per week Prerequisites: ALEM 3013. AUTHORIZATION OF THE PROFESSOR, ACADEMIC ADVISOR, AND THE DIRECTOR OF THE DEPARTMENT. PRESENT TO THE DIRECTOR, THE SEMESTER PREVIOUS TO TAKE THE COURSE, A PROPOSAL OF THE THEME TO BE DEVELOPED FOLLOWING THE PROCEDURES ESTABLISHED BY THE DEPARTMENT. Corequisites: IT COULD BE TAKEN CONCURRENTLY WITH ANY OF THE 4000 LEVEL COURSES.*

Guided research in German concerning themes, theoretical proposals or specific problems in the discipline according to the student's personal interests. the course can be taken a maximum of three times (9 credits) on different themes. (c) 08-16-99

### **ALEM4016 - Techniques of Oral Expression.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: ALEM 3035.*

Study of oral communicative skills in German in informal. Academic and professional situations. Such as: self-presentations, reviews, presentation of documents, critical argumentation, and debates, using multimedia documents. the course will emphasize various linguistic registers and dialects, rhetorical and cultural strategies, the vocabulary and grammatical elements required in each situation or type of discourse. Current sources of information related to German-speaking environments will be chosen. This course is intended for advanced-level German language students. A special emphasis will be placed on expanding vocabulary and linguistic registers through forums and discussions on current issues in German-speaking countries. Face-to-face, online and hybrid course.

### **ALEM4025 - Introduction to German Linguistics.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: ALEM 3013-3023. Corequisites: ALEM 4008.*

Brief overview of basic concepts, elements and levels of analysis of German linguistics: vowels and consonants, phonological processes, phonemes and allophones, morphemes, word classes and phrases,

lexical semantics; study of the dialectal (social and geographic) variation of German in phonetics and in the lexicon.

### **ALEM4105 - German Cinema.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: ALEM3013 OR ALEM3023. COULD BE TAKEN CONCURRENTLY WITH ALEM3025 OR ANY OTHER GERMAN COURSE OF LEVEL 4.*

Critical study, through conferences and discussions, of German-language cinema, taking into account its historical, literary, sociopolitical, aesthetic linguistic and cultural backgrounds. This course is directed to students of German as a foreign language, with a view to broaden and reinforce their knowledge of the target language, and to diversify and complement the students' cultural background. This course can be taken twice (6 credits) under different themes. An interdisciplinary perspective will be emphasized.

### **ALEM4216 - Advanced Study in German.**

*Three credits. Three hours of discussion per week Prerequisites: GERM 3001-3002, 3013 OR GERM 3011-3012, 3023.*

Development of communicative skills at an advanced level. the course content can vary each semester. Theme: language and historical context of fairy tales. Face-to-face, hybrid, online

### **ALEM4501 - German Civilization I.**

*Three credits. Three hours of seminar per week Prerequisites: ALEM3013 OR ALEM 3035*

This is an advanced course of students who have completed the third semester of German or its equivalent. the course presents a historical overview of German civilization from the beginning until the second world war. Students will also learn about the particularities of German civilization and its impact on today's society. This course also provides an overview of the civilization of German speaking countries in the European context.

### **ALEM4502 - German Civilization II.**

*Three credits. Three hours of seminar per week Prerequisites: ALEM 3013 OR ALEM 3035. OR CONCURRENTLY WITH OTHER COURSES OF GERMAN LEVEL 4*

This is an advanced course for students who have completed the third semester of German or its equivalent. the course presents a historical overview of German civilization from the end of world war-II to the year 2000. the main focus will be the contrast between the two different political and ideological systems that divided Germany and its impact on today's society. This course also provides an overview of the civilizations of German speaking countries in the contemporary European context. Face-to-face, hybrid and online course. Effective January 2021.

### **ARAB3001 - Classical Arabic I.**

*Three credits. Three hours of lecture per week.*

First year of classic Arabic. the language of the Koran and of Arabic literature in general. Basic grammar and basic reading skills (prose and poetry). (c)

### **ARAB3002 - Classical Arabic II.**

*Three credits. Three hours of lecture per week Prerequisites: ARAB 3001.*

First year of classic Arabic. the language of the Koran and of Arabic literature in general. Basic grammar and basic reading skills (prose and poetry).

### **ARAB3015 - Arabic Instrument of Investigation I.**

*Three credits. Two hours of lecture and one hour of discussion per week.*



Introductory course of modern standard Arabic for students with research foci or interests that require as basic knowledge of Arabic. By reading and analyzing a selection of sources, both in their original form as well as adapted version for pedagogical purpose, we will present basic notions of Arabic grammar along with the principles of Arabic nominal and verbal morphology. We will emphasize vocabulary acquisition to read elementary texts as well as using resources of philological consultation and watching contemporary Arabic films, reading short stories and newspaper articles. Face-to-face, hybrid, distance, and online modalities.

**ARTE3005 - Basic Course in Photography.**

*Three credits. Three hours of lecture per week.*

Basic principles of photography; composition, use of the camera, illumination techniques (interior and exterior photography), developing (including enlarging) in both black and white and in color. the course is to study photography as an expressive artistic vehicle. 31-08-82

**ARTE3009 - Art and Art of Healing.**

*Three credits. Four and a half hours of lecture per week.*

Visual arts interdisciplinary course and its practical application in the medical humanities with the objective to provide an integrated experience between perception, sensibility, creativity, human condition, pain and suffering the course helps in the development of observational skills, analysis, empathy, and auto-reflection from practical exercise, as much creative as it is discursive.

**ARTE3035 - Community Cultural Development: Project Design and Proposal for Financial Sustainability.**

*Three credits. Four and a half hours of lecture per week Prerequisites: SIX*

Research of successful case studies related to community art projects in Puerto Rico and other countries. the design of strategies for transformation in collective groups and how to finance the projects will be emphasized. This course will be offered face-to-face, hybrid and online modalities. Effective august 2022.

**ARTE3053 - Digital Image I.**

*3 credits. Four hours and a half of workshop, lecture and continued supervision per week Prerequisites: ART 3902 FUNDAMENTALS OF VISUAL ARTS II.*

Introduction to the techniques and processes for the creation of digital images with a theoretical and practical analysis of the social, political, and cultural uses and functions of digital images in contemporary art. (c) face to face hybrid and online

**ARTE3054 - Digital Image II.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ARTE 3053.*

Continuation of the teaching of techniques and processes in the creation of digital images with the use of computer programs for the production of interactive works of art and images in motion. (c) January 17, 2001.

**ARTE3063 - Sound Art I.**

*3 credits. Four hours and a half of workshop, lectures, and continued supervision per week Prerequisites: SIX*

Introduction to the production techniques of digital sound with a theoretical and practical analysis of the uses and functions of sonic digital art in the contemporary fine arts.

**ARTE3064 - Sound Art II.**

*Three credits. Four and a half hours of workshop per week Prerequisites: ARTE3063*

Continuation of the course arte3063-sound art i. Study of the advanced aspects of the reasoning, methodology and practice of the plastic manifestation of the sonic art in the modern and contemporary arts. Lectures, discussions and workshops on the historical, formal, technical and conceptual elements in sonic art

media. This course is open to all university students and is directed elective for the students of the specialization area in art and technology of the department of fine arts. its purpose is that the student may gain a deep vision, understanding and abilities of the techniques and advanced concepts in the creation and use of sound as a plastic medium.

### **ARTE3071 - Digital Animation I.**

*Three credits. Prerequisites: ART 3054, ART 3073 AND ART 3063.*

Introductory course to the reasoning, methodologies and practices of digital animation in the contemporary visual arts. Lecture, discussion and workshop on the formal, technical and conceptual elements of digital animation in its two-dimensional form. This course is a directed elective for the students of the specialization in art and technology of the major in visual arts. its purpose is for students to acquire an overview of the theoretical and technical aspects of digital animation as a contemporary artistic medium.

### **ARTE3073 - Digital Video I.**

*3 credits. Four hours and a half of workshop per week Prerequisites: ARTE3053,3054*

Introduction to non-linear digital video techniques and processes. the computer is used as an editing station for the capture, editing, manipulation and productions of digital video. Study of the contemporary forms of digital video: interactive DVD, CD-ROM, internet- based video and installations with other traditional media. Study of the theoretical and applied basis of the history of video art and its functions within the social, political, and cultural aspects of contemporary art. New title of the course effective January 2008 until

### **ARTE3074 - Digital Video II.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ARTE3073*

Continuation of the course ARTE 3073-digital video i. Advanced studies of edition and non-linear production, methodology and practice in the creation and conceptualization of video as an artistic medium. Lectures, discussions and workshops about the theories and critique of video art in the contemporary arts. This course is open to all university students and is a directed elective for the students of the specialization area in art and technology of the department of fine arts. its purpose is that the student may gain knowledge and advanced practices in the use of techniques and theories in the field of digital video directed towards its use in the contemporary arts.

### **ARTE3080 - Multimedia.**

*3 credits. Four hours and a half of workshop per week Prerequisites: ART-3902-FUNDAMENTALS OF VISUAL ARTS II.*

Historic, critical, theoretical, technical and practical study in the creation of multimedia as a plastic art form. Fundamentals of lingo programming are used together with the creation of digital images, video and sound. These elements are used for the creation of interactive spaces to be published as an art piece through the internet.

### **ARTE3091 - Physical Computing I.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ART 3054.*

Introductory course to the methodologies, theories and techniques of physical computing directed towards the visual arts. Lectures, discussions and workshops about the historical, formal, technical and conceptual elements of the areas that compose physical computing: programming, electronics, construction, and robotics. This course is a directed elective for the students of the specialization in art and technology of the major in visual arts. its purpose is that the student gains the knowledge and practice in the use of technologies in the field of physical computing for the creation of physically interactive artworks.

### **ARTE3110 - Introduction to the Relations Between Art, Design and Intervention Contexts.**

*One credits. One hour of lecture per week.*

Entry course of the minor concentration in art, design and intervention contexts. In-depth review of the practical and conceptual relationships between fine arts and architecture while exploring practice on issues related to the arts, design and perception and understanding of public space. This course will be offered face-to-face, hybrid and online. Effective January 2021.

**ARTE3115 - Art Appreciation.**

*2 credits. Two hours of lecture per week.*

A study of the general concepts of the fine arts, based on a thematic and formal approach. (c) new description begins august 2005.

**ARTE3116 - General History of Western Art (condensed).**

*3 credits. Three hours of lecture per week.*

Panoramic view of western art from the prehistoric times to the present. (c)

**ARTE3120 - Basic Sculpture.**

*Three credits. Three hours of laboratory work per week Prerequisites: ART 3125 OR 3127.*

Introduction to sculpture and techniques using clay, wire, wood, and other materials. Use of free themes and forms.

**ARTE3125 - Drawing I.**

*Three credits. Three hours of laboratory work per week.*

Techniques of drawing and composition using a variety of media and concentrating on still life and the human figure. (c)

**ARTE3127 - Design Elements.**

*Two credits. Four hours of laboratory work per week.*

Principles of design. Demonstrations and exercises in the execution of decorative units and their possibilities in art and industry. (c)

**ARTE3128 - Basic Design.**

*Three credits. Six hours of laboratory work per week Prerequisites: ART 3127.*

A continuation of art. 3127, emphasizing the study of three-dimensional forms.

**ARTE3129 - Color Theory.**

*Two credits. Four hours of lecture and laboratory work per week.*

Theory and practice of color concepts, their psychological and physical qualities, and their use in painting.

**ARTE3135 - Basic Painting.**

*Three credits. Six hours of laboratory work per week Prerequisites: ART 3125 AND 3127.*

Introduction to the basic elements of painting and the principles of composition using oils and acrylics. Free themes and forms. 31-05-82

**ARTE3310 - Project Development: Between Art, Design and Intervention Contexts.**

*Two credits. Two hours of workshop per week Prerequisites: ARQU 3110 AND ARTS 3110.*

Exit course of the minor concentration in art, design and intervention contexts. In-depth review of the practical and conceptual relationships between fine arts and architecture while exploring practice on issues related to the arts, design and perception and understanding of public space.

**ARTE3315 - Printmaking Processes-relief.**

*3 credits. Six hours of discussion per week Prerequisites: ARTE 3402*

Theory and practice of various aspects of relief printmaking in black and white. the preparation of linoleum, cardboard, and wood blocks. Preparation of numbered editions printed manually and by mechanical press.

**ARTE3316 - Color Relief Printmaking.**

*Three credits. Six hours of discussion per week Prerequisites: ART 3315.*

Theory and practice of the different manifestations of relief printmaking in color. the use and development of traditional, modern, and contemporary materials and techniques. Preparation of numbered editions printed manually and by mechanical press.

**ARTE3325 - Printmaking Processes - Intaglio.**

*3 credits. Four and a half hours of workshop per week Prerequisites: ARTE 3401-3402.*

Theory and practice of indirect incision printmaking or intaglio: etching, aquatint, dry point, open bite, mezzotint, soft ground and sugar lift among others. Creation of limited editions in black and white.

**ARTE3326 - Color Intaglio.**

*Three credits. Four hours and a half of workshop per week (lecture and continued supervision to students.)*

*Prerequisites: ART 3325.*

Theory and practice of the creative process in color intaglio printmaking. Traditional intaglio techniques (drypoint, burin engraving, mezzotint, roulette) and contemporary experimental non-toxic processes (open bite, half tone and viscosity inking process will be used. the correct use of the matrix construction, its adequate printing and its creative level will be employed. the student will be instructed to print numbered editions in the calcographic press. August 14, 2001.

**ARTE3330 - Digital Printmaking.**

*3 credits. Prerequisites: ART 3902-FUNDAMENTALS OF VISUAL ARTS II.*

Introduction to the study and practice of digital printmaking focusing on the creation and manipulation of multiple images and techniques of digital printing on paper. Face-to-face, hybrid and online course

**ARTE3335 - Printmaking Processes-planography.**

*3 credits. Four and a half hours of workshop per week Prerequisites: ARTE 3402*

Introduction to the study and practice of the various aspects of planographic printmaking: lithography both in stone and metal plate. Use of the different materials and the application of variety of lithographic techniques: pencil, crayon, tusche with brush, quill drawing, washes, scratching, etc. Creation of a limited edition in black and white.

**ARTE3336 - Color Lithography.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ARTE 3335.*

Continuation of art 3335, printmaking processes-lithography. Concentration and application of color lithography. Use of metal plates and introduction to innovative techniques with the aim of expanding the possibilities of the medium. Emphasis in experimentation in order to provoke the encounter with genuine ways of expression. 14-08-2001

**ARTE3345 - Printmaking Processes-stencil.**

*3 credits. Four and a half hours of workshop per week Prerequisites: ARTE 3402*

Introduction to the process of serigraphy. Technical analysis of the procedures: water-based film, crayon and tusche. Development of designs adaptable to these. Creation of a limited edition.

**ARTE3346 - Photosilscreen.**

*Three credits. Four and a half hours of workshop per week Prerequisites: ARTE 3345.*

Study and practice of different techniques for the creation of an image through the use of the photographic stencil. Creation of a limited edition. 16-01-02

**ARTE3365 - Printmaking Processes: Collagraph I.**

*3 credits. Four hours and a half of workshop per week Prerequisites: ART 3902-FUNDAMENTALS OF VISUAL ARTS II.*

Theory and practice of collagraphic printmaking in high and low relief using plates assembled in collage. Skill development in the use of materials, objects, and textures employed in the construction of collagraphic plates. Investigations in embossing. Development of black and white and color printing and ink applications. Creation of limited editions. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021.

**ARTE3366 - Printmaking Processes: Collagraph II.**

*3 credits. Prerequisite: art 3355-printmaking processes: collagraph I.*

Exploration of printmaking's contemporary problems, concepts, techniques and formats through works performed in collagraph media. Intensive experimentation, amplification and refinement of the skills acquired in art 3355-printmaking processes: collagraph I.

**ARTE3375 - Monotype.**

*Three credits. Four hours and half workshop, lecture and continuous supervision to the students Prerequisites: 3*

Study and intensive practice of monotype as a hybrid, direct and independent medium among printmaking processes. (c) face to face, hybrid and online course

**ARTE3401 - Drawing I.**

*3 credits. Four hours and a half of workshop per week Prerequisites: ART 3902-FUNDAMENTALS OF VISUAL ARTS II.*

the basic study of the formal elements of drawing for the

**ARTE3402 - Drawing II.**

*Three credits. Four and a half hours of workshop per week Prerequisites: ART 3125.*

Introduction to the study of the human figure in its different aspects: by itself, how moves and how it relates to space. Study of anatomical concepts. the emphasis is still in drawing as a creative and conceptual act. Investigation of its experimental possibilities, broadening the concepts and the knowledge of traditional and contemporary materials. (c) face to face hybrid and online course

**ARTE3403 - Intermediate Drawing of the Human Figure.**

*Three credits. Four and half hours of workshop per week Prerequisites: ARTE 3401-3402.*

Introduction to the creation of images, whose conceptual, expressive, and technical bases are related to the reinterpretation of the human figure. Provides continuous individual and group supervision. 20-01-99

**ARTE3416 - Figure Drawing.**

*Three credits. Four and a half hours of workshop per week Prerequisites: ART 3402.*

Study of figuration as expression and reflection of human experience. Profundization of its formal and structural analysis, but with the emphasis on the creative and personal approach of the student.

**ARTE3436 - Creative Drawing.**

*3 credits. Three hours of workshop per week Prerequisites: ARTE 3402.*

Extension of the possibilities of drawing as an independent medium of expression. the emphasis is in the creation of works that use the techniques learned in the basic drawing courses, expanding them in the process of developing the individuality of the student. Face-to-face, hybrid and online course

### **ARTE3446 - Color Drawing.**

*Three credits. Four and half hours of workshop per week Prerequisites: ARTE 3401-3402.*

Intermediate drawing course that introduces the art student to the creation of images which conceptual, expressive, and technical bases are intimately tied to color. Provides continuous individual and group supervision. 20-01-99

### **ARTE3497 - Intermediate Drawing.**

*Three credits. Four hours and half workshop per week Prerequisites: ART 3401-3402, AND ADDITIONAL THREE*

Intermediate drawing studio directed to students of that discipline that have already taken the introductory courses on processes and techniques. its purpose is to acquaint the student with the conceptual elements of drawing, emphasizing on the interdependent relations among themes, contents, forms and mediums. the abilities to understand and use them effectively will be achieved through class and assigned projects and through sessions of critiques, conferences, and discussion. Can be repeated up to a maximum of 6 credits.

### **ARTE3515 - Design Processes.**

*3 credits. Four hours and a half of workshop.*

Study of the elements of design and their application to each one of the basic principles of design. the student will be introduced to digital design. Face-to-face, hybrid and online course. Effective for January 2021.

### **ARTE3615 - Sculpture Processes I.**

*3 credits. Six hours of discussion per week Prerequisites: ART 3902-FUNDAMENTALS OF VISUAL ARTS II.*

Introduction to the basic notions essential for the creation of sculptures: their conceptualization through design and historical study and their construction using elementary materials and techniques. Face-to-face, hybrid and online course

### **ARTE3616 - Sculpture Processes II.**

*Three credits. Six hours of lecture per week Prerequisites: ART 3615.*

Intermediate study and development of the different media, techniques and traditional procedures of sculpture. Introduction to its contemporary manifestations through the use of mixed media.

### **ARTE3617 - Experimental Sculpture.**

*3 credits. Six hours of workshop per week Prerequisites: ARTE 3616*

Development of individual projects within the tridimensional and sculpture field exploring experimental media without losing the traditional perspective as a feed-back. Exploration of the different techniques to achieve projects within a new line of visual expression.

### **ARTE3626 - Wood Sculpture.**

*3 credits. 4.5 hours of workshop per week Prerequisites: ARTE 3616*

in depth study of the two forms of creating a wood sculpture: carving and construction. Production of works in this medium from their conceptual development to their fulfillment. Introduction to the materials and to the manual, mechanical and electrical equipment, as well as to the techniques of patinas fillings, joints, unions, and policromations. Introduction to the conservations of such works.

**ARTE3636 - Stone Sculpture.**

*3 credits. Six hours of workshop per week Prerequisites: ARTE 3616*

in depth study of the creation of a stone sculpture, from its conceptualization to its realization. Development of the skills in the knowledge about stones, their names, qualities and location, as well as of the skills in finishing and conservation of the finished works. Introduction to the manual, mechanical and electrical equipment. New description begins on January 16, 2002.

**ARTE3646 - Metal Sculpture.**

*3 credits. 4.5 hours of workshop per week Prerequisites: ARTE 3616*

in depth study of the creation of a metal sculpture, from its conceptualization to its completion. Introduction to the equipment: plasma, and oxi-acetylene cutters, routers, polishers, compressors, and to the techniques of electrical arc, oxi-acetylene and bronze welding, as well as to structural problems. Development of the techniques of finishing with a patina and the conservation of the works. Face-to-face, hybrid and online course

**ARTE3656 - Cement Sculpture.**

*3 credits. Six hours of workshop per week Prerequisites: ARTE 3616*

Conceptualization and creation of cement sculptures. Introduction to the techniques of construction and assembly of molds, to the different mixtures and their components, and to the finish, patina, installation and maintenance of the works.

**ARTE3666 - Foundry Techniques.**

*Three credits. Six hours of workshop per week Prerequisites: ART 3120, ART 4255 OR ART 3617.*

Study of the equipments and techniques of metal casting, from the creation of molds, castings, investments and firings in different process, to the techniques of finishes and patinas of fused metals.

**ARTE3718 - Pinhole Photography.**

*Three credits. Six hours of workshop per week Prerequisites: ART 3711, ART 3712.*

Introduction to the techniques, artistic possibilities and construction of pinhole camera.

**ARTE3719 - Large Format Photography.**

*Three credits. Four and a half hours of workshop per week Prerequisites: ART 3711 AND ART 3712.*

This course allows students to develop technical skills and conceptual large format photography, one of the most widely used in contemporary photography in digital and analog side.

**ARTE3720 - Photography of Human Figure.**

*3 credits. Prerequisites: ARTE3736*

Study of theoretical and practical frameworks on the social, political and cultural use and function of the human figure in contemporary artistic photography through the creation of creative proposals.

**ARTE3726 - Color Photography.**

*Three credits. Six hours of workshop per week Prerequisites: ART 3711, ART 3712.*

Introduction to the techniques and artistic possibilities of color photography. (c)

**ARTE3730 - Digital Photography.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ARTE 3712*

Technical theoretical and practical fundamentals in the creation and use of digital photography as an art form.  
13-08-02

**ARTE3731 - Photographic Processes I.**

*Three credits. Four hours and a half of workshop per week with lectures and continuous supervision of the students work Prerequisites: ARTE3901, ARTE3902*

An introduction to photography as a medium within the visual arts. the technical aspects essential for the development of a contemporary photographic language, using the digital camera will be covered. the concepts and theories of artistic photography, will also be studied in light of historical and contemporary trends. Face-to-face, hybrid and online course

**ARTE3732 - Photographic Processes II.**

*Three credits. Four hours and a half of workshop per week, with lectures and continuous supervision to the students Prerequisites: ARTE3731*

Continuation course of ongoing processes of photography i. in this course the students will investigate the various processes in the traditional manipulation of contemporary photography black and white photographic processes, managing a large-format camera and the development of visual and conceptual ideas.

**ARTE3735 - Contemporary Practices in Digital Photography.**

*Three credits. Four and a half hours of workshop per week with lecture and continuous supervision of the students Prerequisites: ARTE3731*

Study of contemporary trends in digital photography. the students develop and expand their digital photographic skills acquired in photography processes i. Emphasis will be placed in non-traditional approaches to photography, the convergence of media in contemporary artistic practice and the implications of new media in the design of the contemporary photographic image. the use of critical thinking about the problems of contemporary visual culture is essential to this course. the topics of this course will be addressed through a combination of classroom lectures, practical exercises, research projects, reading assignments and critical reviews of projects. Face-to-face, hybrid and online course. Effective for January 2021.

**ARTE3736 - Theory and Practice of Artificial Lighting.**

*Four credits. Four and a half hours of workshop per week with lectures and continuous supervision of the students work Prerequisites: ARTE3731,3732*

This course introduces students to the use of lighting inside and outside of the studio from the historical, practical and creative perspective. It emphasizes technical skills and conceptual lighting control, focusing on the impact of lighting on the contemporary practice of art photography. Face-to-face, online and hybrid course. Effective February 2021.

**ARTE3737 - Photography Issues, Past and Present.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week.*

This course seeks to develop student understanding of the transforming role of photography in society and culture of the XX and XXI centuries. the relationship of the photographic medium to the theory and knowledge from modernist to postmodernist views, including the social transformations that have been enabled during the last two centuries. This course seeks to develop critical thinking for the analysis of photographic images in different contexts: art, propaganda, advertising, culture, society and politics. This course will be offered under the face-to-face, hybrid and online modalities. Effective august 2022.

**ARTE3745 - Photography and Video: Body, Space and Action.**

*Three credits. Four and a half hour of workshop per week Prerequisites: ARTE 3711*

Multi-disciplinary workshop in which the students will review the relations between the artist's body, the art action and the public or private space through photography and video. Students will practice the art action based on a study and analysis of the conceptual relations between the genres and the elements. This



workshop is a directed elective for the photography students, a free elective for the fine arts students and an it is available for all the students of the university of Puerto Rico, Rio Piedras campus. This course will be offered face-to-face, hybrid and online modalities. Effective august 2022.

### **ARTE3748 - Theory and Practice of the Photo Novel.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ARTE3731*

This course introduces the student to the historical development and influences of the photo novel in the conceptual artistic practice. to this end the students will experiment with the different technical roles, such as director, scriptwriter, actor, lighting designer, and engage in the creation of a photographic novel. This course aims at raising awareness in students of the importance of teamwork in the contemporary artistic practice.

### **ARTE3815 - Painting Processes I.**

*3 credits. Six hours of workshop per week Prerequisites: ARTE 3125 AND 3127.*

Introduction to the basic concepts of painting: from its mechanicals and technical aspects, to its expressive ones. the development of technical capabilities and formal vocabulary through the creation of significant images using color.

### **ARTE3816 - Painting Processes II - Materials and Techniques of Easel Painting.**

*Three credits. Four and a half hours of workshop per week Prerequisites: ARTE 3815*

Intermediate course that specifically explores the technical possibilities and materials intrinsic to easel painting. Face-to-face, hybrid and online course. Effective for January 2021. 12-08-97

### **ARTE3818 - Oil Painting.**

*Three credits. Four and a half hours of lectures and supervised workshops Prerequisites: ARTE3816*

During this course the student delves into techniques, manufacture and use of materials associated with the technique of oil painting. It will examine their historical development and the formal and conceptual contributions to painting, and contemporary practice. This course is designed particularly for students of visual arts. Through exercises, technical demonstrations, illustrated lectures and collective critiques, advanced skills in management techniques and materials are developed. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021.

### **ARTE3836 - Water Color Painting.**

*3 credits. Four and a half hours of workshop per week Prerequisites: ARTE 3816*

Transparent watercolor and gouache as independent color media. Introduction and experimentation with the traditional and contemporary techniques of both variations. the emphasis of the course rests in the maximum utilization of the flexibility and immediacy of the medium for the artistic expression.

### **ARTE3846 - Figurative Painting.**

*3 credits. Six hours of workshop per week Prerequisites: ARTE 3815.*

the use of painting as the principal medium in the figurative representation of form-space relationships in the traditional bi-dimensional pictorial plane through still life, landscape and figure paintings.

### **ARTE3848 - Advanced Figurative Painting.**

*Three credits. Four and a half hours of workshop per week Prerequisites: ART 3846.*

Intermediate painting course that proposes intensifying the knowledge of the materials and techniques, but, primordially, developing in the students the capacity to make his/her approaches to visual proposals rooted in figuration, more profound and individual.

**ARTE3850 - Encaustic Painting.**

*Three credits. 4.5 hours of workshop, lecture and supervision per week Prerequisites: ART 3816.*

Study of the formal, historical, technical and conceptual process of the thermo-meltable or encaustic painting. Seeks to establish a link between the student and the pictorial tradition and its relevance with contemporary artistic practices. This course is for students who specialize in painting. its purpose is for students develop their own language, using visual and conceptual elements that provide this technology. the course is developed through illustrated lectures, collective critiques and use of the workshop.

**ARTE3855 - the Painting in the 80's.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: ARTE3237*

Study of a historical period of art of particular importance to the medium of painting. This course examines in detail the theoretical phenomenon of "return of painting" in the world, its impact on culture, society and the appreciation of the art market. It is developed through illustrated lectures and is aimed particularly to students of fine arts.

**ARTE3897 - Intermediate Printing Studio.**

*Three credits. Prerequisites: ARTE 3815 PAINTING PROCESSES I-II*

Intermediate level course, to develop in the student of painting the understanding of and the effective use of the relationships among themes, contents, forms and media. This course can be repeated up to a maximum of six credits.

**ARTE3901 - Fundamentals of Visual Arts I.**

*Three credits. Four hours and a half of workshop per week.*

Introductory course to the reasoning, methodology and practice in the creation of bidimensional and tridimensional manifestations of the contemporary visual arts. Conferences, discussions and studio work on the historic, formal, technical and conceptual elements of the bidimensional and tridimensional media of plastic arts. This course is open to all university students and is requisite for the plastic arts major first year students. its purpose is to acquaint the students with a panoramic vision of the bidimensional and tridimensional media fundamentals in order to enrich their plastic arts vocabulary and enable them to make an educated decision regarding the area of specialization to be studied.

**ARTE3902 - Fundamentals of Visual Arts II.**

*Three credits. Four hours and half workshop per week Prerequisites: ART 3901- FUNDAMENTALS OF VISUAL ARTS I.*

Continuation of course art 3901. Introduction to the reasoning, methodology and practice in the creation of time arts/4d and digital manifestation of the contemporary visual arts. Conferences, discussions and studio work on the historic, formal, technical and conceptual elements of the time based (performance, ephemeral art, video and sound) and digital media of the plastic arts. This course is open to all university students and is a requisite for the plastic arts major first year students. its purpose is to acquaint the students with a panoramic vision of the 4d and digital media fundamentals in order to enrich their plastic arts vocabulary and enable them to make an educated decision regarding the area of specialization to be studied.

**ARTE3911 - Foundations of Visual Art I: Two Dimensions.**

*Three credits.*

An introduction to the reasoning, methodology and practice of contemporary art in two dimensional manifestations. This course includes lectures, discussions and workshops focused on the historical, formal, technical and conceptual elements of two-dimensional artistic media. This course is open to all university students and is a requirement for plastic art program of fine arts department. its goal is to offer the student a panoramic vision of the foundations of two-dimensional artistic media, to enrich their artistic vocabulary and

allow them to make an informed decision regarding which concentration to study. Face-to-face, online and hybrid course. Effective February 2021.

**ARTE3912 - Foundations of Visual Arts I: Three-dimensional.**

*Three credits. Six hours of lecture, discussion and workshop continuously supervised.*

An introduction to the reasoning, methodology and practice of contemporary art in three-dimensional manifestations. This course includes lectures, workshop and discussion focused on the historical, formal, technical and conceptual elements of three-dimensional artistic media. This course is open to all university students and is a requirement for first year students in plastic art program of the department of fine arts. its goal is to offer the student a panoramic vision of the elements and vocabulary foundations of three-dimensional artistic media, to enrich their artistic vocabulary and allow them to make an informed decision regarding which concentration to study. Face-to-face, online and hybrid course. Effective February 2021.

**ARTE3913 - Foundations of Fine Arts III: Fourth Dimension.**

*Three credits. Six hours of lecture discussion and workshop per week.*

An introduction to the reasoning, methodology and practice of contemporary art in temporal and digital manifestations (time arts/4d) this course includes lectures, discussions and workshops focused on the historical, formal, technical and conceptual elements of temporal artistic media (performance, ephemeral art, video and sound). This course is open to all university students and is a requirement for first year students in the plastic arts program of the fine arts department. its goal is to offer the student a panoramic vision of the foundations of temporal and digital artistic media, to enrich their artistic vocabulary and allow them to make an informed decision regarding which concentration to study. Face-to-face, online and hybrid course. Effective February 2021.

**ARTE3914 - Design from a Gender Perspective.**

*4.5 credits. 67.5 hours of lecture and workshop per week Prerequisites: ARTE 3911.*

Theoretical and practical aspects of design as a discipline applied to discussions of gender as an interdisciplinary field. Taking as a starting point women's studies, men's studies and LGBT+ studies, it seeks to reflect in practice on how gender dilemmas impact the processes and articulations of design, as well as its direct or indirect use. the students will carry out design projects where the political and cultural loads of gender in the social space are considered.

**ARTE3916 - Perspective and Optical Illusion.**

*Three credits. Four and a half hours of workshop per week Prerequisites: TWO OF THE FOLLOWING COURSES. ARTE 3911, ARTE3912, ARTE3913*

Research and practice of the principles of perspective and optical illusion for the representation of space in its conceptual breadth as well as through diverse contemporary artistic approaches. the course offers students practical tools to solve the problems of the construction of three-dimensional depth on two-dimensional picture plane. Face-to-face, online and hybrid course. Effective February 2021.

**ARTE3917 - Serial Imagery.**

*Three credits. Six hours of workshop per week Prerequisites: SIX*

Exploration of the interaction between two or more juxtaposed images in a visual and artistic discourse. Face-to-face, online and hybrid course. Effective February 2021. This course before ARTE 3717.

**ARTE3919 - Introduction to the Cultural and Artistic Heritage Conservation.**

*Three credits. Three hours of discussion per week Prerequisites: 6*

Within the broad spectrum of tangible artistic and cultural heritage there are different art forms, which are recognized for their historical and aesthetic values. This evaluative binomial defines the matter as an art's

artifact. This assessment is also based on the biophysical characteristics, time and space of the art work, axioms that determine the recognition of the state of conservation of the latter. the conservation knowledge of the artwork represents a great theoretical methodological and practical challenge for the conservator-restorer students around the world.

### **ARTE3926 - Women in the Art of Antiquity.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Interdisciplinary course on an intermediate level directed mainly at students of history of art, history, and archaeology where, through works of art, the student will study and learn the religious, political and social function of woman in the near east, Egypt, Greece and Rome in antiquity.

### **ARTE3930 - Research and Study Trip.**

*Three credits. 15 sessions of 1.5 hours each including lecture and discussion during the semester and 4.5 contact hours during the trip at the end of the semester.*

A research course which includes a study trip at the end of the semester, to a destination that has been the focus of the course, a relevant important destination in contemporary art. This course is designed for art students. During the preparatory stage the group will analyze in historical and cultural terms the selected city, through reports and lectures. the semester will culminate in a visit to the selected city, during which the group will visit museums, galleries, public art project and artists' studios. the course will develop utilizing reports, lectures, conversations and the creation of a visual register by each student. This course can be repeated as long as the place being visited has change.

### **ARTE3935 - Comics and Graphic Novels Production.**

*Three credits. Four and a half hours of workshop per week Prerequisites: 6*

Historic research based on significant comics and graphic novels in the industry. its relevance and impact in the imaginaries of the period in which they were produced will be studied as well as its dialectic revolution. the diversity of genres will be analyzed, and individual and collective proposals will be presented in order to develop areas of creativity, imagination and innovation. An analysis of the industry and marketing and distribution will be emphasized. This course will be offered face-to-face, hybrid and online modalities. Effective august 2022.

### **ARTE3936 - Wet Media.**

*Three credits. Four hours and half of workshop per week Prerequisites: ART 3816-PROCESSES OF PAINTING. ART 3446-COLOR DRAWING.*

Intermediate studio course that explores the conceptual, expressive and technical aspects of different wet media on traditional and contemporary paper supports. Face-to-face, hybrid and online course. Effective for January 2021.

### **ARTE3937 - Artistic Anatomy.**

*3 credits. 4.5 hours of workshop per week Prerequisites: ARTE 3402.*

Course based on the study of the bone and muscular structures of the human body, its components and the different forms of representation that have been used by various artists throughout history. It stresses the importance of the human body as a means of expression and thematic composition of an artwork. It focuses on the development of anatomical knowledge in history and its vocabulary in order to design and build the human figure accurately. Strengthens the ability to observe and represent the characteristics, adaptations and peculiarities of the human body. Utilizes knowledge to implement creatively the human body adapted to variations and changes nowadays. Face-to-face, online and hybrid course. Effective February 2021.

### **ARTE3991 - Design and Sustainability of Art Projects I, II.**

*Three credits. Three hours of lecture per week Prerequisites: SIX*

Analysis and study of successful strategies for financial sustainability of artistic projects. A local and international scenario of individual and collective initiatives will be presented where the visual arts and multimedia are integrated as tools for relevant visual communication for diverse audiences. the student's personal vision will be emphasized, the conceptual frameworks developed in class, innovative projects financed by nonprofits, private sector crowd funding and the design and writing of proposals for sponsors. This course can be repeated up to three times for a maximum of nine credits, once every level.

### **ARTE4009 - Women Aesthetics Practices and Gender Politics.**

*Three credits. Three hours of workshop per week Prerequisites: ARTE3911, ARTE3912, ARTE3913*

Multidisciplinary workshop that explores and steers the conceptual and formal relationship between feminist aesthetic practices and gender policies while reviewing the recognition, participation and visibility of women in the scene of modern and contemporary art. the course examines the connections and disconnections between female art and feminist art, artistic practices and aesthetic practices and the relationship of these terms to the development of gender politics in the arts, from a detailed analysis of their particular visual arguments. Students will develop a multidisciplinary body of art work to engage conceptual and formal dialogues among today's women issues, aesthetic practices and gender politics.

### **ARTE4097 - Advanced Workshop in Digital Art.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ARTE 3054 AND PROFESSOR AUTHORIZATION.*

Advanced level course in digital art for students with the capacity and need to establish individual directions in their creative artwork. This course allows for the creation or artwork through research and writing of personal project by each student, in fields of their particular interest under the supervision of the professor. This course can be repeated three times for a maximum of nine credits. 13-08-02

### **ARTE4111 - Spanish Art I.**

*3 credits. Three hours of lecture per week.*

Survey of Spanish art from the middle age to the renaissance.

### **ARTE4251 - Graphic Arts Workshop.**

*Three credits. Six hours of laboratory work per week Prerequisites: ART 3125 AND 3127.*

Introduction to engraving and commercial art techniques. (c)

### **ARTE4255 - Sculpture I.**

*Three credits. Six hours of laboratory work per week Prerequisites: ART 3125, 3126, 3127 AND 3120.*

the art of modeling. First semester: principles and practice of modeling in plasticine. Single figure composition. the use of plaster molds.

### **ARTE4256 - Sculpture I.**

*Three credits. Six hours of laboratory work per week*

the art of modeling. Second semester: modeling the human figure. Use of the plaster waste mold for the reproduction of important art works.

### **ARTE4366 - Photosensitive Methods in Printmaking.**

*3 credits. Six hours of laboratory work or workshop per week Prerequisites: SIX*

Exploration of diverse methods of photosensitive base as alternative mediums in printmaking. the class may vary in accordance to the available technical and human resources. Among others it may include photo etching in zinc plates, photopolymers plates, xerox transfers and photosensitive emulsions. Integration of

these to other traditional printmaking forms. Conference and workshop both at the printmaking and photography laboratories.

**ARTE4376 - New Approaches to Printmaking.**

*3 credits. Four hours and a half of workshop per week Prerequisites: ADDITIONAL NINE*

Investigations in the practice of diverse contemporary possibilities and new approaches in traditional printmaking techniques. the course may vary in content depending on the available technical and human resources as well as to the new technical possibilities and formal trends that emerge. Among others it may include mixed media, xerography, laser and digital prints. Exploration of tridimensional, large and nontraditional formats. Production of editions or single copies independently or in collective proposals.

**ARTE4397 - Advanced Printmaking Studio I, II and III.**

*Three credits. Four hours and a half of workshop, lectures and continued supervision per week Prerequisites: ARTE 3315, ARTE 3316 OR 3325, ARTE 4326 OR 3345, ARTE 3356 OR 3335, ARTE 4336 AND SIX ELECTIVE*

Advanced level printmaking course for students with the capacity and needs to establish individual directions in creative work. Provides for the creation of works of art through the elaboration of projects and researches in areas of personal interest under the direction of the professor. the course may be repeated up to three times for a maximum of nine credits. 19-01-2000

**ARTE4416 - Large Format Drawing.**

*3 credits. Six hours of workshop per week Prerequisites: ARTE 3402.*

in depth study of drawing based upon current trends and concepts related to alternative in non-traditional large format.

**ARTE4426 - Experimental Workshop on Paper.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ART 3125.*

Study and practice of new trends in drawing as an independent art form. Emphasis in the presentation of concepts, critical analysis and elaboration processes. Among other possibilities, investigations will be done on the different contemporary approaches to figuration and non-figuration, collage, hand-made paper, etc. 31-08-82

**ARTE4497 - Advanced Drawing I, II and III.**

*Three credits. Four hours and a half of workshop, lecture and continued supervision per week Prerequisites: ARTE 3402 AND THREE CRS. IN DRAWING AND PROFESOR SUP.*

Advanced level drawing course for students with the capacity and needs to establish individual directions in creative work. Provides for the creation of works of art through the elaboration of projects and research in areas of personal interest under the direction of the professor. the course may be repeated up to three times for a maximum of nine credits. 19-01-2000

**ARTE4616 - Monumental Sculpture.**

*3 credits. Six hours of workshop per week Prerequisites: ARTE 3616*

Development of scale sculpture into monumental scales encompassing the surroundings and the theme to be develop maintaining its composition. Exploration of the different techniques and methods for planning, presentation elaborating this kind of projects. Face-to-face, hybrid and online course. Effective January 2021.

**ARTE4697 - Advanced Sculpture I, II and III.**

*3 credits. Four hours and a half of workshop, lecture and continued supervision per week Prerequisites: ARTE 3616, THREE*

Advanced level sculpture course for students with the capacity and needs to establish individual directions in

creative work. Provides for the creation of works of art through the elaboration of projects and researches in areas of personal interest under the direction of the professor. the course may be repeated up to three times for a maximum of nine credits.

**ARTE4797 - Advanced Workshop in Photography.**

*Three credits. Four hours and a half of workshop per week Prerequisites: ARTE 3712*

Advanced level course in photography for students with the capacity and need to establish individual directions in their creative artwork. This course allows for the creation of artwork through research and writing of personal project by each student, in fields of their particular interest under the supervision of the professor. This course can be repeated three times for a maximum of nine credits. 13-08-02

**ARTE4816 - Large Formats Painting.**

*3 credits. Four and a half hours of workshop per week Prerequisites: NINE*

Investigation and exploration of the language and the traditional and contemporary pictorial media in large-format painting. Introduction to the materials, supports, techniques, tools, and variety of processes inherent to the large-scale concept.

**ARTE4826 - Experimental Painting.**

*3 credits. 4.5 hours of workshop per week Prerequisites: NINE*

the manipulation of non-traditional pictorial planes introduced into painting in the twentieth century and in the extension of the traditional limits of figurative and non-objective painting, through integration with other arts such as print-making, photography and sculpture. Face-to-face, online and hybrid course. Effective February 2021.

**ARTE4897 - Advanced Painting Studio I, II and III.**

*3 credits. Four hours of workshop per week Prerequisites: ARTE 3816, THREE*

Advanced painting course for students with the capacity to establish individual creative work proposals. Provides continuous individual and group supervision. This course can be taken to a maximum of 9 credits (3 semesters).

**ARTE4905 - Ephemeral Art Workshop.**

*3 credits. Six hours of workshop per week Prerequisites: AN INTERVIEW OR AN AUDITION.*

An exploration on diverse contemporary artistic manifestations in which the originating idea and the process by which they are presented take precedence over a tangible final product. Emphasis in the active participation of the viewer as well as on the deliberate impermanence of a work of art. Workshop in the classroom as well as on outdoor sites at the university and the community. Face-to-face, hybrid and online course. Effective January 2021.

**ARTE4915 - Installation.**

*3 credits. Four and a half hours of workshop per week Prerequisites: ART 3902-FUNDAMENTALS OF VISUAL ARTS II.*

Investigation and study of the contemporary theories and aesthetics practices in the conception and construction of installations as an artistic form. Planning and construction of installations in public and private spaces. Presentation of theoretical and practical analysis of the social, political and cultural uses and function of the installation in private and public spaces.

**ARTE4916 - Abstract Art.**

*3 credits. Four hours and a half of workshop per week Prerequisites: 3*

Multidisciplinary studio course that explores the conceptual and expressive possibilities of abstraction in the

plastic arts. Face-to-face, hybrid and online course. Effective for January 2021.

**ARTE4926 - Paper-experimental Workshop.**

*3 credits. Four and a half hours of workshop per week Prerequisites: ART 3401, ART 3902, ART 3515.*

Study and practice of new tendencies in the creation of works on paper. Emphasis in the presentation of concepts, critical analysis and elaboration processes. Depending upon the technical and human resources, different contemporary approaches to figuration, non-figuration, collage, hand-made paper, recycled paper, etc., among other possibilities, will be investigated.

**ARTE4927 - the Artistic Book.**

*3 credits. Six hours of workshop per week Prerequisites: ARTE 3402.*

the study and practice of non-traditional and experimental tendencies in the creation of artistic books as an independent art form. Emphasis on different formats, materials, and tools which might be utilized in the elaboration of an artistic book. Exploration on the diverse conceptual, thematic, and formal possibilities both on its external and internal presentation and content. This class will provide a panoramic study in the history and development of the artistic media.

**ARTE4971 - Research and Creation Workshop I.**

*Three credits. Six hours of workshop per week Prerequisites: NINE*

Final course required for all areas of emphasis in the concentration of fine arts. Written form of a proposal for creative research, creation and critical analysis of art works that investigate it and partial manifest conclusions. Face-to-face, online and hybrid course. Effective February 2021.

**ARTE4972 - Research and Creation Workshop II.**

*Three credits. Six hours of workshop per week Prerequisites: ARTE4971*

Second part of the final course required for all areas of emphasis in the concentration of fine arts. Review of the research proposal, final development of the works that embody the proposal, criticism and defense of the conclusions and written form of a final manifesto. Face-to-face, hybrid and online course. Effective for January 2021.

**ARTE4997 - Independent Study-fine Arts.**

*Two to Four credits. Independent study Prerequisites: PERMISSION OF THE DIRECTOR AND THE PROFESSOR.*

Independent study performed under the supervision of a professor specialized in the students' area of interest. the course may be repeated up to a maximum of six credits. 19-08-96

**CHIN3001 - Intensive Chinese I.**

*3 credits. Five hours of lecture per week.*

Introductory course in modern Chinese. Four skills will be developed in this course: auditory comprehension, oral expression, reading and writing. Some aspects of the Chinese culture will be studied. Face-to-face, hybrid and online course. Corequisites: chin 3011 and 37. 5 hours of laboratory. Effective 01-2021.

**CHIN3002 - Intensive Chinese II.**

*3 credits. Five hours of lecture per week Prerequisites: CHIN 3012 AND 37.5 LABORATORY.*

in this course, students continue studying daily conversations in Chinese and improving their diction of Chinese syllables, especially Chinese tones. They continue practicing writing Chinese characters by hand and using a computer. They also enhance their knowledge of china and their interest for the Chinese language and cultures through Chinese culture activities. Face-to-face, hybrid and online course.

**CHIN3011 - Chinese Intensive Laboratory I.**



*No credits. Two hours and half of laboratory per week Corequisites: CHIN 3001.*

This laboratory is an obligatory complement to the course of chin 3001. It provides an opportunity for students to develop their oral expression in Chinese language. It is organized into small groups. With this laboratory students get a wider knowledge of the Chinese culture.

### **CHIN3012 - Chinese Intensive Laboratory II.**

*No credits. Two hours and half of laboratory per week Prerequisites: CHIN 3001. Corequisites: CHIN 3002.*

the laboratory is a required complement of the chin 3001 course. It provides the student with the opportunity to not only develop his/her oral expression in Chinese, but to also deepen his knowledge of Chinese culture. the laboratory will be organized into small groups of students.

### **CHIN3103 - Intermediate Chinese I.**

*Three credits. Two hours of lecture, one of discussion and two and a half hour of laboratory.*

Course designed to strengthen oral communication skills as well as the comp comprehension of Chinese characters in order to improve student's capacity to read, write and understand the written language at an intermediate level. Vocabulary and grammatical knowledge will be expanded and new and more complex Chinese characters will be studied. Face-to-face, hybrid and online course.

### **CHIN3104 - Intermediate Chinese II.**

*Three credits. Two hours of lecture one of discussion and two and a half hours of laboratory Prerequisites: CHIN3013 OR CHIN3004.*

Continuation of the intermediate i course, designed to strengthen oral communication skills as well as the comprehension of Chinese characters in order to improve the student's capacity to read, write and understand the written language at an intermediate ii level. Includes writing short essays using Chinese characters either by hand or with computer. Face-to-face, hybrid and online course. Effective January 2021. Prerequisites: 3103. Effective January 2021.

### **CHIN4016 - Chinese Oral Expression (intermediate Level).**

*Three credits. Three hours of lecture per week Prerequisites: CHIN3002*

This course develops oral communication skills at an intermediate level. Through the discussion of daily issues in class, it will focus on pronunciation and fluency of spoken Chinese. the content of this course focuses on developing new vocabulary and correct grammar structures in oral expression. This course is an intensive oral practice. Course face-to-face, hybrid and online modalities.

### **CHIN4017 - Chinese Reading (intermediate Level).**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: CHIN3003, CHIN4016. Corequisites: CHIN3004*

This course develops reading skills in Chinese at an intermediate level student will read documents written characters, about subjects closely related with daily life. the content of this course focuses on developing new vocabulary and correct grammar structures through reading practice in and out of the classes. This course is an intensive reading practice. This course will be offered face-to-face, hybrid and online modalities.

### **CHIN4026 - Intermediate Oral Expression II.**

*Three credits. Two hours of discussion and one of lecture per week Prerequisites: CHIN4016*

This is a course that continues the oral expression course at the intermediate I level. It is addressed to students who wish to continue to argument their oral communication skills for everyday situations. This will be accomplished by class discussion. Students will learn new vocabulary, acquire better fluency and improve their knowledge of grammar. This is an intensive course of oral practice.

### **CHIN4136 - Chinese Language and Culture Through Videos.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: CHIN 3104.*

This course explores contemporary Chinese culture through authentic documents (video), available on the internet, presenting different topics of daily life in china. Students will develop their ability to understand and speak Chinese at natural speed, expand their vocabulary and learn new grammatical structures at an intermediate level. This course will be offered face-to-face, hybrid and online.

### **CREO3341 - Introduction to Creole (Intensive Course).**

*Three credits. Five hours of lecture per week Prerequisites: FREN 3031-3032 OR ITS EQUIVALENT.*

This course intends to provide the students with the basic skills of creole, enabling them to communicate in this language, and to establish the basis for a theoretic (linguistic) study of creole. An active method will be used based on the study of dialogues from albert waldmann's book a method for learning creole and on exercises with the professor.

### **CREO3342 - Introduction to Creole (Intensive Course).**

*Three credits. Five hours of lecture per week Prerequisites: FREN 3031-3032 AND CREO 3341 OR ITS EQUIVALENT.*

This course intends to provide the student with basic skills of creole, enabling them to communicate in this language, and to establish the basis for a theoretic (linguistic) study of creole. An active method will be used based on the study of dialogues from albert waldmann's book a method for learning creole and on exercises with the professor.

### **CREO3401 - Afro-Caribbean Creole I.**

*Three credits. Two hours of conference and three hours of discussion per week*

Elementary language learning classes in a particular dialect of afro- Caribbean English lexifier creole which are designed to foster competence in pronunciation, speaking comprehension, reading, writing, aspects of cultural practice and the use of vocabulary. the dialect chosen as the "target dialect" for language learning may vary from year to year. in addition, special studies are carried out on the west African, Jamaican, and lesser Antilles dialects of the language. Provides students with an initial preparation to do scholarly research in communities that speak afro-Caribbean English lexifier creole by training them in how to analyze spoken and written data taken from the various dialects of the language and in how to communicate effectively with the speakers of afro-Caribbean English lexifier creole. This course is equivalent to INGL 3401.

### **CREO3402 - Afro-Caribbean English Lexifier Creole II.**

*Three credits. Two hours of lecture and three of discussion per week Prerequisites: CREO 3401.*

Intermediate level language learning classes in a particular dialect of Afro-Caribbean English lexifier creole which are designed to foster intermediate competence in pronunciation, speaking comprehension, reading, writing, aspects of cultural practice and the use of vocabulary. the dialect chosen as the "target dialect" for language learning may vary from year to year. in addition, special studies are carried out on the south America, central American, north American, and lesser Antilles dialects of the language. Provides students with an intermediate level preparation to do future scholarly research in communities that speak afro-Caribbean English lexifier creole by training them in how to analyze spoken and written data and in how to communicate effectively with the speakers of afro-Caribbean English lexifier creole. Este curso tiene como equivalente INGL 3402 en el depto. de ingles

### **DANZ3001 - Modern Dance - Basic Technique I.**

*Three credits. One hour of lecture and two of supervised practice per week Prerequisites: AUDITION BEFORE ENROLLMENT.*

The practical study of basic modern dance techniques. 19-08-96

**DANZ3002 - Modern Dance - Basic Technique II.**

*Three credits. Four and a half hour of supervised practice per week Prerequisites: DANZ 3001.*  
Continuation of the practical study of basic modern dance techniques. 19-08-96

**DANZ3003 - Ballet for Beginners I.**

*Three credits. One and a half hour of discussion and three hours of supervised practice per week.*  
Introduction to the art of classical ballet for beginners. 19-08-96

**DANZ3004 - Ballet for Beginners II.**

*3 credits. One and a half hour of discussion and three hours of supervised practice per week Prerequisites: DANZ3003*  
Introduction to the art of classical ballet for beginners.

**DANZ3007 - Folkloric Theatrical Dances.**

*Three credits. One hour of discussion and two of supervised practice per week.*  
the study of folkloric dances and its adaptation for theatrical representation. (c) 19-08-96

**DANZ3035 - Body Movement.**

*Three credits. One hour of discussion and two of supervised practice per week.*  
The study of the possibilities of movement and coordination of the human body. 19-08-96

**DANZ3036 - Body Expression.**

*Three credits. One hour of discussion and two of supervised practice per week Prerequisites: DANZ 3035.*  
The study and practice of the art of expressing our emotions, moods, physical sensations, situations and ideas through body movement. 19-08-96

**DANZ4007 - Evolution and Development of Dance.**

*Three credits. Three hours of discussion per week.*  
The study of the history and theory of dance. (c) 19-08-96

**DANZ4035 - Basic Choreography I.**

*Three credits. One and a half hour of discussion and three of supervised practice per week Prerequisites: DANC 3001,3035,3036, 4241 AND/OR AUDITION.*  
The theoretical and practical study of the creation of movement patterns in space and time. 19-08-96

**DANZ4037 - Experimental Dance Workshop.**

*3 credits. One hour of lecture and two hours of laboratory per week*  
Experimental forms of dance and movement workshop.

**DANZ4045 - the Art of Dance in Education.**

*Three credits. Three hours of lecture per week.*  
The study of dance in relation to the physical, intellectual, social and cultural development of the child; its importance in the school curriculum and the community.

**DANZ4055 - the Art of Dance in Education.**

*Three credits. Three hours of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*  
The study of dance in relation with physical, intellectual, social and cultural development of the child; its importance in the school curriculum and the life of the community. 19-08-96

**DANZ4241 - Ballet I - Basic Technique.**

*Three credits. Two and a half hour of discussion per week Prerequisites: AUDITION.*  
The practical study of the basic ballet techniques. 19-08-96

**DANZ4242 - Ballet II - Basic Technique.**

*Three credits. Five hours of supervised practice per week Prerequisites: DANZ 4241.*  
Continuation of the practical study of the ballet techniques. 19-08-96

**DANZ4243 - Ballet III - Intermediate Technique.**

*Three credits. Seven and a half hour of supervised practice per week Prerequisites: DANZ 4241-4242.*  
The practical study of the intermediate ballet techniques. 19-08-96

**DANZ4244 - Ballet IV - Intermediate Technique.**

*Three credits. Seven and a half hour of supervised practice per week Prerequisites: DANZ 4243.*  
Continuation of the practical study of the intermediate ballet techniques. 19-08-96

**DANZ4245 - Ballet V - Advanced Technique.**

*Three credits. Seven and a half hour of supervised practice per week Prerequisites: DANZ 4244.*  
The practical study of the advanced ballet techniques. 19-08-96

**DANZ4246 - Ballet VI - Advanced Technique.**

*Three credits. Seven and a half of supervised practice per week Prerequisites: DANZ 4245.*  
Continuation of the practical study of the advanced ballet techniques. 19-08-96

**DANZ4251 - Ballet Toe Skill I.**

*Two credits. Three hours of supervised practice per week Prerequisites: DANZ 4241.*  
Training in the ballet toe skills. 19-08-96

**DANZ4252 - Ballet Toe Skill II.**

*Two credits. Three hours of supervised practice per week Prerequisites: DANZ 4251.*  
Continue the training in the ballet toe skills. 19-08-96

**ESHI3356 - Soccer and its Modalities.**

*Three credits. Two hours of workshop and one hour of lecture per week.*  
Teaching and mastery of the rules, techniques, tactics and training principles of the soccer modalities. Discussion of the physical, mental benefits and inclusive adaptations. Economical and social impact in the society is discuss. the course prepares students with the require knowledge to participate in the different modalities of the soccer. Course will be offered face-to-face and hybrid.

**ESIN3003 - Introduction to Interdisciplinary Studies.**

*Three credits. One hour and a half of lecture, one hour of discussion and half hour of investigation per week.*  
This course intends to offer a panoramic view of interdisciplinary studies, both from a theoretical and methodological perspective. the course parts from the premise that present day interdisciplinary studies do share some common conceptual currents, which is important to be exposed to, without it ever implying any kind of delimitation of the constitutive openness of this field f study. Finally, the student will be exposed as well to the methodologies, norms of style and ethical principles of any interdisciplinary studies research, both for whom are interested in more analytic-historical pursues within academia and for those more interested in the creative or professional ones. By professional we mean in this context that it is related to

cultural or professional administration. This course will be offered in face-to-face, hybrid and online modalities.

**ESIN3175 - Fundamental Principles in Archivology.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*  
Study of the theoretical and methodological basis of archivology.

**ESIN3176 - Methodology of Research in the Humanities: Papers and Thesis.**

*Three credits. Two hours of lecture and one of discussion per week.*  
This course offers the students the opportunity to acquire advanced skills for the search and use of information in the research of topics in the humanities. the end result will be a research paper or a thesis proposal.

**ESIN3236 - Poetry: Theory and Composition.**

*3 credits. Two hours lecture and two hours discussion per week Prerequisites: ESPA 3208 OR EXAMINATION COMPILEMENT.*

Interdisciplinary course for students interested in their formation as creative writers and critical readers of poetry. It focusses on the development of communication, rationalization and creative investigation of the poetic genre in comparison with other genres in the arts.

**ESIN3401 - Introduction to Law.**

*Three credits. One hour and a half of lectures, one hour of discussion and half hour of investigation.*  
This course intends to introduce the student to the basic elements of the study of law as a concept, system, institution, and social phenomena. As a result, the student will understand the different notions through which the legal phenomenon is best explained, ranging from its normative aspects to the way in which the judiciary system is organized through its institutions such are the courtroom, the judiciary process, and the legal profession itself. With the objective of contextualizing and envisioning some of its central discussions, controversial issues such as family rights, the penal law, and fundamental liberties will be examined. This course will be offered in face- to-face, hybrid and online modalities.

**ESIN3402 - Themes in Cultural Agency.**

*One to Three credits. One to three hours of seminar per week.*  
Seminar of variable credit and themes related to the theoretical and practical study of cultural agency. the student would be able to take the course more than once up to maximum of 9 credits. As long as it is offered on different topics. This course will be offered in face-to-face and hybrid modalities.

**ESIN3403 - Citizen's Sense and Ethics.**

*Three credits. Three hours of seminar per week.*  
This course promotes the development of the citizen's sense and ethics, understood as the commitment to the common well-being, the tools to critically analyze social inequalities and injustices, and to participate actively in the construction of a collective future. It introduces interdisciplinary approaches to subjectivity, the public, the private and the common; the social production of inequalities; the discourse of rights; the decolonial, feminist, anti-racist and intercultural pedagogies of human development and good living, among other approaches to the construction of a critical and participative citizenship. This course will be offered in face-to-face, hybrid and online modalities. New descriptions begin on august 2021.

**ESIN3404 - Thinking Contemporary Art and Cultural Production.**

*Three credits. One hour and a half of lectures, one hour of discussion and half hour of investigation per week.*  
The course exposes the student to the fundamental theoretical and critical approaches to contemporary art

and cultural production in general. the "artistic" discourse will be the subject of questioning, taking into account the criteria of "beauty", technical prowess, and even that which includes certain media and not others. We will pay attention equally to the debates surrounding the historical periodization of art, that includes, among others, the categorical distinction between the modern and the contemporary, hegemonic in the north. We will thereby incorporate critical and theoretical approaches from the south paradigm. Historical contextualization will be important in said course, even though the emphasis of the course will be the critical and theoretical. This course will be offered in face-to-face, hybrid and online modalities.

#### **ESIN3501 - Themes in Sciences and the Humanities.**

*One to Three credits. One to three hours of seminar per week.*

Seminar of variable credits and themes directed to explore the crossings between and the humanities. the student would be able to take the course more than once up to maximum 9 credits, as long as it is offered on different topics. This course will be offered in face-to-face and hybrid modalities.

#### **ESIN4001 - Puerto Rican Studies Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The course provides knowledge about the Puerto Rican culture. Emphasis on historical, literary, philosophical and artistic movements of Puerto Rican thought for second half of xix and xx centuries. This is a research course.

#### **ESIN4003 - General Practice of Creative Writing.**

*Three credits. Half hour of lectures, one hour and a half of workshop and one hour of supervised practice clinic per week Prerequisites: ESIN 3003.*

This course is a general practice about the conceptual-creative aspects of creative writing. During this course, the student will focus on the development of the conceptual part of creative writing project, be it on a collective or individual level, according to criteria to be established by the professor. for those students interested in literary, journalistic, or media editing in general, this course will serve them well in order to better develop future editing skills by starting with the self-editing process of his\her own creation. This course will be offered in face-to-face, hybrid and online modalities.

#### **ESIN4005 - Cultural Policies in the Caribbean.**

*Three credits. Three hours of lecture per week.*

The study of the planning of cultural policies in the Caribbean.

#### **ESIN4008 - Theories of Meaning and Culture.**

*Three credits. Three hours of lecture per week.*

Study of the processes of symbolic and cultural production articulated through the plurality of networks and communicative interchanges and generated by the different actors and mediators from the social weave. Face-to-face, hybrid and online course

#### **ESIN4009 - Research Methods and Information Skills in Latin American and Caribbean Studies.**

*Three credits. One hour of lecture, one hour of discussion and one hour of laboratory with the professor.*

Development of research skills, particularly through the use and evaluation of print, bibliographic and on-line resources available for Latin American and Caribbean studies. 13-08-02

#### **ESIN4011 - Latin American Studies Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The course provides knowledge about Latin American culture. With emphasis in historic, literary, artistic and philosophic development of Latin American countries. This is a research course.

**ESIN4012 - Law Clinic Internship I.**

*Three credits. Three hours of internship per week Corequisites: BE A REGULAR STUDENT WITH A 3.0 GPA. HAVE COMPLETED 51% OF BA*

Law clinic internship at UPR or i. U. Law school. Each student will be placed and work in the law clinic and would attend to conference and workshops. Student will produce a portfolio of experience. the course will be offered in face-to-face, hybrid and online modalities.

**ESIN4013 - Law Clinic Internship II.**

*Three credits. Three hours of internship per week Prerequisites: ESIN 4012.*

Law clinic internship at UPR. Each student will be placed and work in the law clinic and would attend to conference and workshops. the student will produce a portfolio of the experience. Course face-to-face and hybrid.

**ESIN4015 - Ballet Basic Technique.**

*Three credits. A half hour of lecture and one hour of laboratory work daily Prerequisites: STUDENTS MUST ATTEND AN AUDITION BEFORE ENROLLMENT IN THE COURSE.*

The practical studies of the basic ballet technique.

**ESIN4016 - Ballet Intermediate Technique.**

*Three credits. A half hour of lecture and one hour of laboratory work daily Prerequisites: INST 4015.*

The practical studies of intermediate ballet technique.

**ESIN4017 - Ballet Advanced Technique.**

*Three credits. A half hour of lecture and one hour of laboratory work daily Prerequisites: INST 4016.*

The practical studies of the advanced ballet technique.

**ESIN4020 - Short Story Workshop.**

*Four credits. One hour of discussion and three hours of workshop per week.*

Workshop of diverse topics focused on discussion of structural and practical knowledge of short stories in one of its modalities. It is designed for students of Hispanic studies, Spanish, and creative writing who are interested in creative writing, editing, and copying. It may be repeated up to a maximum of nine credits with diverse topics. Theme: microstory - face to face, hybrid and online course

**ESIN4029 - Interdisciplinary Course for Artistic Evaluation.**

*Three credits. Three hours of lecture per week Prerequisites: ART 3115, MUSI 3225, THEA 3025.*

Forum for the analysis and evaluation of the most important elements for the appreciation of the plastic arts, music, dance and theater.

**ESIN4038 - Film History.**

*Three credits. Three hours of lecture per week.*

This course proposes cinema as the main object of study, in a discussion which privileges its history. the proposal includes an analysis of the development of the industrial and artistic apparatus, and the emergence of significant cinematic authors and genres. the course also analyzes the industrial context of the development of film as an artistic expression and as an entrepreneurial venture. This course has double coding with coma4038

**ESIN4045 - Art, Culture and Law.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites:*

### *HUMA 3101-3102*

Study of the relationship between art, culture and law from an interdisciplinary perspective. Discussion of the interaction between art and law; the legal protection of the artist's rights; the rights to the protection of the cultural heritage and the Puerto Rican legislation pertaining the protection of Puerto Rico's cultural heritage. Face to face, hybrid and online course 17-08-98

### **ESIN4056 - Humanities in Action.**

*Three credits.*

A seminar of diverse contents related to the analysis of audiovisual languages: film, television and performance: theatre, dance, visual arts, music, directed towards the critical reflection on the humanities and their significance in the contemporary world. Each time the seminar will focus on a different topic. (c) themes: historicity of medical sciences from image and video face-to-face, hybrid and online course themes: management of cultural projects face-to-face, hybrid and online course.

### **ESIN4065 - Seminar on Pre-law Studies.**

*Three credits. Three hours of lecture per week.*

Interdisciplinary study of certain aspects of law related to the humanities.

### **ESIN4066 - Research Seminar: Contemporary Legal Issues.**

*Three credits. Three hours of seminar per week Prerequisites: ESIN 4065 OR AUTHORIZATION OF THE PROFESSOR.*

Critical analysis of contemporary law related issues. Emphasis on the development of legal research skills. the student can repeat the course on two different occasions to study different topics that have been subject of public discussions. 20-01-99

### **ESIN4075 - Seminar: Basic Concepts of Translation.**

*Three credits. Three hours of seminar per week.*

Analysis of the basic concepts based on the definitions of translation and on the study of the main principles of translation and their implications.

### **ESIN4076 - Seminar: Basic Concepts of Translation II.**

*Three credits. Three hours of seminar per week Prerequisites: ESIN 4075*

Introduction to the discipline of translation through exercises in particular situations provided by the research scenario. Application of the basic concepts of translation using diverse types of translations from English to Spanish. the course helps to develop text analysis capabilities on the source or origin language and strengthens composition skills in the target language (language to be translated). 20-01-99

### **ESIN4077 - Introduction to Scientific Research in Communication.**

*Three credits. One and a half hours of lecture and one and a half hours of laboratory per week.*

This course initiates students in the field of scientific research applied to mass media. Study of the procedures and handling of the investigation as well as the resources and the bibliographical compilation study. Also includes research methods such as the survey, the study of the field, content analysis, the discursive analysis, the focal groups, in depth interview, and the handling of data for statistical analysis. This course will be offered face-to-face, hybrid and online modalities.

### **ESIN4080 - Seminar: Theory and Practice of Literary Edition.**

*3 credits. Three hours of seminar per week Prerequisites: ONE OF THE FOLLOWING COURSES*

Interdisciplinary course directed to students interested in obtaining a formation as critical editors. the course puts emphasis in the development of student's skills in writing, research and editing, usefull in the



preparation of a text in book form, under the supervision of a professor specialized in the area.

**ESIN4085 – Scientist humanist Integration of Health and the Environment.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**ESIN4090 - Interdisciplinary Studies Capstone Seminar.**

*Three credits. Three hours of draft conclusion (capstone) Prerequisites: HAVE COMPLETED 12*

Seminar for majors in interdisciplinary studies. its purpose is to integrate the knowledge, skills and aptitudes learned to execute a final project with a sense of social responsibility. the "exit" project will consist of working groups with at least one member of each area of emphasis to engage in a collective social action project as well as on individual research projects, such as monograph on the subject in question. Social action can make use of both cultural analysis, creation and management, as well as action research. This course will be offered in face-to-face, hybrid and online modalities.

**ESIN4095 - Gender, Narrative and Film.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

Analysis of the literary and filmic procedures used in narrative literature and narrative film in order to elaborate historicized female and male subjects.

**ESIN4101 - Topics in Film and Audiovisual Production.**

*Three credits. One hour of lecture, one hour of discussion and one hour of investigation per week.*

This is a course of diverse subject matter ("umbrella") that allows primarily theoretical and/or historical approaches to either cinema or audiovisual production. the course may be taken up to three times. This course will be offered face-to-face, hybrid and online modalities.

**ESIN4105 - Introduction to Women's Studies.**

*Three credits. Three hours of lecture per week.*

Interdisciplinary analysis of the ways in which sex, sexuality and gender have determined the role women play in society. Woman as the subject and object of history, the arts, literature and philosophy will constitute the starting point of this analysis.

**ESIN4116 - Seminar: Current Trends in Environmental Thought.**

*Three credits. Three hours of seminar per week Prerequisites: ESIN 4115 OR AUTHORIZATION OF THE PROFESSOR.*

Introduction to various currents that contribute to the environmental problematic. Study of the paradigm or conceptual framework that sustains present-day environmental thought. That sustains present-day environmental thought. Concentrating on a specific theme. the standpoint is the humanistic perspective with a transdisciplinary approach. the international debate will be applied to Puerto Rico. the course can be taken up to two times with different topic. 20-01-99

**ESIN4125 - Independent Study.**

*Three credits. Three hours of independent study per week Prerequisites: 80 APPROVED*

Course on directed research in interdisciplinary studies related to specific problems and topics of individual interest. the course can be taken up to two times for a total of six credits. 20-01-99

**ESIN4136 - Mass Media Writing and Editing.**

*Three credits. Three hours of workshop per week*

This course aims to train undergraduate students in the production and editing of texts in any of the mass

media areas: journalism, public relations and advertising, audiovisual and information and communication technologies. Emphasis is placed on the requirements of the mass media discursive level in which a text is able to fulfill its message transition with special attention to cohesion, acceptability, and informativity. In a workshop format, students will use expository, descriptive, narrative and expressive techniques. This course includes sections of variable format: face-to-face, hybrid and online modalities.

#### **ESIN4187 - Theory and Film Criticism.**

*Three credits. Three hours of lecture per week.*

Analysis of industrial-artistic aspects of film. Study of the development and contribution of the cinematographic art to the society. Face to face, hybrid and online course this course has double coding with ESIN4187.

#### **ESIN4350 - Themes in Pre-law Studies.**

*Three credits. Two hours of lectures and one hour of discussion per week.*

This is a variable theme and credit course that intends an interdisciplinary approach to the study of law and the humanities. Throughout the semester, we will examine the core aspects of law and their particular relevance to students of the college of the humanities. Due to this very nature, many courses with different subject-matters can be offered in this very course. This course will be offered in face-to-face and hybrid modalities. This course can be repeated up to a maximum of 9 credits.

#### **ESIN4395 - Interdisciplinary Internship.**

*Three credits. 10 hours of internship per week Prerequisites: TO COMPLETE THREE YEARS OF UNDERGRADUATE STUDIES ON A MAJOR OF THE HUMANITIES FACULTY. 3.0 AVERAGE. AUTHORIZATION OF THE PROFESSOR.*

Supervised internship in a public, private or community institution for students of the faculty of humanities. Its purpose is to expose students to different scenarios in the participation and organization of cultural festivals museums, galleries, community centers, editorial office or government agency, among others, that result in their academic and professional growth. This learning experience will be complemented by the application of theoretical knowledge of their discipline to their professional work at the internship. This course will be offered face-to-face, hybrid and online modalities. Effective August 2022.

#### **ESIN4401 - Seminar on Research in the Humanities.**

*Three credits. Three hours of seminar per week.*

Seminar that offers an introduction to the conception and development of research projects in the humanities. It discusses the core aspects of the process of conceiving and carrying out a research project, from the definition of the topic, the selection of theoretical and conceptual referents, the methodological design, research with primary sources, systematization of data, analysis, and oral and written presentation of the findings. The student will be exposed to some of the main research methodologies in the humanities, from the perspectives of disciplines such as history, literary criticism, philosophy, linguistics, and the arts, emphasizing interdisciplinarity, as proposed in the tradition of cultural studies. This course will be offered in face-to-face, hybrid and online modalities.

#### **ESIN4992 - Special Topics in Creative Writing.**

*One to Three credits. Half an hour to one hour of lecture and half an hour to two hours of workshop per week Prerequisites: AUTHORIZATION OF PROFESSOR.*

Workshop of diverse topics in creative writing. The course explores the history and practice of genres of creative writing in the context of a particular debate. It addresses the development of writing skills for creative writing. The texts to be analyzed and the theoretical framework will vary according to chosen genres. It may be repeated up to a maximum of six credits with different topics. Themes: workshop poem - face to

face, hybrid and online course this course is double code with espa 4992

**ESPA3011 - Introduction to Linguistics.**

*3 credits. Three hours of lecture per week.*

Introductory course to twentieth century linguistic theories and the

**ESPA3012 - Introduction to Linguistic II.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**ESPA3013 - Introduction to Linguistic Compendium.**

*3 credits. Two hours lecture and one-hour discussion per week.*

Study of language, particularly about its principles and the application to Spanish language, considering phonetic and phonological, morphological, syntactic, semantic and pragmatic levels. Exercises to identify linguistic segments. Face to face, hybrid and online course

**ESPA3016 - Business and Puerto Rican and Spanish-American Literature.**

*3 credits. One hour of lecture and two hours of discussions per week.*

Presentation of fundamental concepts of professional and business communication through teaching material composed of literary works in various genres. the essay, narrative, theater and poetry shape the material that will serve to expose issues pertaining to the professional field to develop in students the ability to work successfully as a team. the course also pursues to instill in students oral, written and interpersonal communication skills indispensable to their effective performance in professional field. Face-to-face, online and hybrid course. Effective February 2021.

**ESPA3026 - Grammatical Aspects of Communication.**

*Three credits. Three hours of lecture per week.*

Spanish grammar on a basis of syntax; punctuation and morphology integrated to this syntactic criterion; readings; application.

**ESPA3155 - Language and Communication.**

*Three credits. One-hour lecture and two hours discussion.*

Study of the structures of the Spanish language and their communicative function. in order to understand and produce different types of oral and written discourse (descriptive, narrative, expositive and argumentative). Development of Spanish communication skills from the perspective of discourse (scientific, literary, legal informative and conversational).

**ESPA3167 - Language Acquisition.**

*Three credits. Two hours lecture and one-hour discussion per week.*

Analysis of the principal theories and methodology in language acquisition. Comprehension and production processes.

**ESPA3201 - Literary Genres: Narrative and Drama.**

*3 credits. Three hours of lecture per week.*

A study of the development and techniques of narrative and dramatic liter- literary genres through the analysis of works by representative authors. This course will be offered face-to-face, hybrid and online modalities.

**ESPA3202 - Literary Genres: Poetry and Essay.**

*3 credits. Three hours of lecture per week Prerequisites: BASIC SPANISH OR ITS EQUIVALENT.*

A study of the development and the techniques of the literary genres of poetry and the essay through the analysis of works by representative authors. Face to face, hybrid and online course.

### **ESPA3208 - Writing and Style.**

*3 credits. Three hours of lecture per week.*

This is a practical course on writing and composition which covers from the simple sentence to the full essay. It will emphasize enrichment of vocabulary and the following qualities of style: distinctness, accuracy, coherence, correctness, and sobriety. (c)

### **ESPA3209 - Narrative Theory and Practice.**

*4 credits. One hour of lecture and three hours of discussion per week.*

This course will develop narrative, writing skills and aesthetic sensibility both in theory and practice for students interested in becoming fiction writers. (c)

### **ESPA3211 - Introduction to Spanish Literature I.**

*Three credits. Three hours of lecture per week.*

A study of literary movements, authors and representative works of Spanish literature from the middle age to the renaissance in the first semester and from the golden age to the present in the second semester. (c) this course will be offered face-to-face, hybrid and online modalities.

### **ESPA3212 - Introduction to Spanish Literature II.**

*Three credits. Three hours of lecture per week.*

A study of literary movements, authors and representative works of Spanish literature from the middle age to the renaissance in the first semester and from the golden age to the present in the second semester. (c) face to face, hybrid and online course

### **ESPA3226 - Applied Linguistics for Spanish As A Native Language.**

*Three credits. One-hour lecture and two discussion per week.*

Study of the main theories of the psycho-sociolinguistic processes which intervene in acquisition and learning of languages. Methodological exercises applied to teaching of native language.

### **ESPA3246 - Language and Culture.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

This course proposes the study of the existing relationship between language and culture. It examines major currents, theoretical assumptions, and methodologies developed by sociology of language, ethnolinguistics, and linguistic anthropology in the analysis of the interactions between human beings, culture, and linguistic forms. This course will be offered in face-to- face, hybrid and online modalities.

### **ESPA3291 - Spanish Grammar: The Nominal Phrase.**

*3 credits. Three hours of lecture per week Prerequisites: BASIC SPANISH OR ITS EQUIVALENT*

A descriptive study of the morpho-syntactic aspects of the Spanish language with simple sentence structure and including the study of coordination and subordination. Analysis of texts which illustrate the different linguistic levels and their values. (c) face to face, hybrid and online course

### **ESPA3292 - Spanish Grammar the Verbal Phrase.**

*3 credits. Three hours of lecture per week Prerequisites: ESPA3291*

A descriptive study of the morpho-syntactic aspects of the Spanish language beginning with simple sentence structure and including the study of coordination and subordination. Analysis of texts which illustrate the

different linguistic levels and their values. (c) face to face, hybrid and online course

**ESPA3401 - Myths of Language and Linguistics.**

*Three credits. One and a half hours of lecture and one and a half hour of discussion per week.*

Evaluation and analysis of several of the myths on language and linguistics

**ESPA3512 - Literature. Journey, Writing.**

*Three credits. Three hours of discussion per week Prerequisites: HAVE APPROVED THE FIRST YEAR SIX*

This course studies the several perspectives inherent in the literature regarding journeys. on one hand, we will analyze reason that motivate displacements, such as economy, military, politics, religion and adventure. on the other, we will assess both favorable and counterproductive circumstances for the construction of an imaginary of progress, liberty or independence. the course also examines the characteristics of travel literature, its genesis and evolution, as well as its main characteristics. the study of this genre shall be complemented with a travel experience that will result in the production of a creative text, literary narrative, multimedia or others, generated from the knowledge acquired of the genre of travel literature this course will be offered face-to-face.

**ESPA3801 - Seminar: Present Day Spanish American Narrative.**

*Three credits. Three hours of lecture per week.*

Study of present day Spanish American narrative. Study of its fundamental preoccupations and means of expression as seen in the works of the most representative authors.

**ESPA3802 - Seminar: Present Day Spanish American Narrative.**

*Three credits. Three hours of lecture per week.*

Study of present day Spanish American narrative. Study of its fundamental preoccupations and means of expression as seen in the works of the most representative authors.

**ESPA3805 - Spanish Composition.**

*Three credits. Three hours of lecture per week.*

the course consists primarily of oral and written composition with grammatical treatment of the morphosyntactic structure of the Spanish language as the different problems arise in the course of the student's work.

**ESPA3806 - Esotery in Spanish-American Narrative.**

*2 credits. Two hours of lecture per week.*

This course offers new perspectives in the study of Spanish American literature with an emphasis on the esoteric element which issues from the religious and cultural contexts in Spanish-American literature.

**ESPA4008 - Spanish Phonology and Phonetics.**

*3 credits. Two hours of lecture and one of discussion per week Prerequisites: ESPA3011 OR 3012 OR 3013 OR EQUIVALENTS OR AUTHORIZATION OF THE PROFESSOR.*

Identification and study of the sounds of Spanish and its dialects within current models and using various tools for acoustic and articulatory analysis.

**ESPA4009 - Debates in Spanish Literature: Middle Ages to Renaissance.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

This course studies the contemporaneity of major works of Spanish literature from the middle age to the renaissance and reviews the fundamental debates around this literature from an historical and interdisciplinary perspective. Reading will include poema del CID, fragments of the libro de buen amor, la

celestina, lazarillo de tormes, and the works of the renaissance poets garcilaso de la vega and san juan de la cruz, the course is an option to fulfill the literature requirement of the general education component. Face to face, hybrid and online course

**ESPA4011 - Hispanic Linguistics: Diachrony of the Spanish Language.**

*3 credits. Three hours of lecture per week.*

Origin and development of the Spanish language, with special attention to the present state of the language in America and in Puerto Rico. Until

**ESPA4012 - Hispanic Linguistics: Spanish Language in America.**

*3 credits. Three hours of lecture per week Prerequisites: ESPA4011*

Origin and development of the Spanish language, with special attention to the present state of the language in America and in Puerto Rico. Face to face, hybrid and online course new title since august 2012

**ESPA4013 - Hispanic Linguistic Survey.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

This course addresses Spanish as an Indo-European language in modern times. It approaches the general features and history of the linguistic system of Spanish, taking as a starting point the features that characterize their own variety as members of the community of Spanish speakers in America. This is done while contextualizing the main proposals for the origin and evolution of Spanish.

**ESPA4016 - Fantastic Literature in Hispanic America.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

In this course will be studied the fantastic literature in Hispanic America, specifically in works of authors as Horacio Quiroga, Jorge Luis Borges, Julio Cortazar, among others, to comment the relations of the fantastic, the surrealism, the real marvelous and the magical realism since an interdisciplinary perspective. It is design for students that need to fulfill the literature requirement of the general education component, in addition to the students of the Hispanic studies major and other related areas.

**ESPA4018 - Renaissance Literature of Golden Age.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

This course explores canonical and anti-canonical Spanish renaissance literature written in the context of the strictest enforcement of inquisitorial censorship during Spain's golden age. It analyzes the concept of the literary canon, and how many of the authors of the Spanish renaissance chose to comply with the approved canon, while others preferred to subvert it. the renaissance literature is studied, beginning with La Celestina and concluding with el Lazarillo de Tormes. the course is elective for the Hispanic studies' major students; also, is an option to fulfill the literature requirement of the general education component. Face to face, hybrid and online course new title since august 2011 this course can have equivalence with espa3251. and with other courses of the golden age offered in other institutions.

**ESPA4019 - Spanish Baroque Literature.**

*Three credits. Two hours lecture and one hour of discussion per week.*

This course explores canonical and anti-canonical baroque Spanish literature. Written during the strictest repression of the Spanish golden age. It analyzes the concept of the literary canon, and how many of the authors of the Spanish baroque chose to comply with the approved canon, while others preferred to subvert it works by Quevedo, Gongora, Lope, Cervantes and Calderon among others, are studied. the course is elective for the Hispanic studies students. Also, is an option to fulfill the literature requirement of the general component. Face-to-face, online and hybrid course. Efectivo para enero 2021.

**ESPA4020 - Short Story Workshop.**

*Four credits. One hour of discussion and three hours of workshop per week.*

Workshop of diverse topics focuses on discussion of structural and practical knowledge of short stories none of its modalities. It is designed for students of Hispanic, Spanish, and creative writing who are interested in creative writing, editing, and copying. It may be repeated up to a maximum of eight credits with diverse topics. Themes: microstory face to face, hybrid and online course.

**ESPA4026 - Gothic Literature in Hispanic America.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

In this course will be studied the gothic literature in Hispanic America, specifically in works of authors as Ruben Dario, Maria Luisa Bombal and Carlos Fuentes, among others, to comment the aesthetical and philosophical basic elements that impulse the born of the gothic mode from an interdisciplinary perspective. It is design for students that need to fulfill the literature requirement of the general education component, in addition to the students of the Hispanic studies major and other related areas.

**ESPA4027 - Lights and Shadows in Spanish Literature: from the Enlightenment to Romanticism.**

*Three credits. Three hours of lecture and discussion per week.*

This course examines the work of some of the authors associated with the enlightenment in Spain, together with the works of writers traditionally classified under the rubric of "Spanish romanticism". the specific factors that conditioned the emergence of the enlightened and romantic spirit in Spain, as well as its evolution, are studied. Close reading of the selected works and class dialogue will analyze the treatment of some of the themes that characterize the literature of these periods. This course is an option to fulfill the literature requirement of the general education component.

**ESPA4028 - Psycholinguistics.**

*Three credits. One hour of lecture and two of discussion per week.*

This course explores within an interdisciplinary context, the connections and relationship which exist between biological and cognitive components, among others, of human language which affects its processes such as acquisition, development, and usage.

**ESPA4029 - Travels and Visions: Spanish Travel Literature.**

*Three credits.*

This course aspires to familiarize students with the tradition of Spanish travel literature from the middle age to the present, by focusing on writings by Spaniards about their travels around the country and accounts of visits to Spain by foreigners. the selected chronology brings the reader's attention to the multiform character of travel writing and its proximity to other genres and disciplines, including geography, history, art, autobiography, letters, and fiction. This course will pay special attention to the different forms of Spanish travel writing and major themes of the genre. This course is an option to fulfill the literature requirement of the general education component. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2021. Description until august 2014. Change in numerical code.

**ESPA4066 - Seminar of Research Linguistic.**

*Three credits. Three hours seminar per week Prerequisites: 18*

A study of linguistic methodologies and their procedures, techniques, and strategies in order to identify, design, and develop a linguistic research in the phonetic and phonological, morphological, syntactic, or semantic level. Quantitative and qualitative analysis of linguistic data collected by students. Face-to-face, hybrid and online course. Effective for January 2021.

**ESPA4085 - Theoretic Foundations of Sociology of Literature and its Application to the Analysis of**

### **the Latin American Novel.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 4221-4222 OR SOCI 3135 OR HIST 3211-3212.*

Basic study of the evolution of sociology of literature, its theory and its most important currents with special attention on escaipit's and goldmann's theories; sociological analysis of Latin American novels.

### **ESPA4106 - Poetics Written by Poets.**

*Three credits. Prerequisites: TO HAVE APPROVED AT LEAST 3*

A study of representative texts written in prose by poets, in which these writers think carefully and extensively about modern poetry. This course will explore a heterogeneous corpus on the deep sturcture of poetry authored by European, American, and Caribbean poets.

### **ESPA4107 - Contemporary Cuban Literature.**

*Three credits. One hour of lecture and two of discussion per week.*

Analysis and discussion of modern and contemporary Cuban literary works, from an interdisciplinary perspective, with particular emphasis on the representation of Havana city and 20th-century history, including the exiled writers this course is an option to fulfill the general literature requirements.

### **ESPA4115 - Debates Is Spanish Literature: Baroque to Vanguard.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Study of the contemporaneity of the major works of Spanish literature from the baroque to the vanguard, and review of the fundamental debates on this literature from an historical and interdisciplinary perspective. This course can be taken as an option to fulfill the literature requirement of the general education component. Face to face, hybrid and online course

### **ESPA4116 - Spanish Lexical-semantics.**

*3 credits. Two hours lecture and one-hour discussion per week.*

Study of the significant units of the Spanish language: semantic features. Componential analysis, semantic fields, and lexical relations between units. Analysis of the meaning of words and utterances based on contemporary semantic theoretical models. Exercises on meaning relationships: synonymy, antonymy, ambiguity, and selection. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021.

### **ESPA4195 - Hispanic Dialectology.**

*Three credits. Two hours of lecture per week Prerequisites: ESPA 3011-3012 OR ESPA 3013.*

Study of the theory and methodology of modern dialectology, with emphasis in Spanish language. Synchronic examination of Spanish language as a diasystem that contains dialectical varieties. Identification and explanation of linguistic and extralinguistic factors in the interdialectal variation.

### **ESPA4205 - Stylistics.**

*Three credits. Three hours of lecture per week.*

A study of the effective and imaginative aspects of the spoken and literary language.

### **ESPA4206 - Marginalities in the Golden Age Literature.**

*Three credits. One hour of lecture and one of discussion per week.*

This course offers a vision of the social marginality in diverse literary texts belonging to the Spanish golden age. These works will be contextualized inside the historical cultural view of the epoch in an interdisciplinary perspective. This course counts as an option to fulfill with the requirement of literature of the component of general education. Face to face, hybrid and online course



**ESPA4213 - Debates in Spanish Contemporary Literature.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Study of contemporary Spanish literature through representatives' authors and works. Face-to-face, hybrid and online course

**ESPA4221 - Spanish American Literature I.**

*3 credits. Three hours of lecture per week*

Panoramic lectures and discussion about the development of Spanish American literature from its origins to the last years of modernism.

**ESPA4222 - Spanish American Literature II.**

*3 credits. Three hours of lecture per week.*

Panoramic lectures and discussion about the development of Spanish American literature from the beginning of the twentieth century to the "boom". Face-to-face, hybrid and online course

**ESPA4225 - Literature of the Conquest.**

*3 credits. Three hours of lecture per week.*

Comparative study of native American and Spanish literatures on the conquest of America, and the historical development of their interpretation, emphasizing historical and aesthetic perspectives, and the interrelationship between icon (image) and word as a vehicle of cultural expression. This course is an option to fulfill the literature requirement of the general education component.

**ESPA4226 - Contemporary Spanish American Literature.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week.*

Study of contemporary Spanish American literature from the 1940's to the present.

**ESPA4229 - Contemporary Dominican Literature: Tendencies and Figures.**

*Three credits. One hour of conference and two hours of discussion per week.*

A study of Dominican literature, with special emphasis on the literature of the twentieth and twenty-first centuries. Literary works and representative authors will be analyzed within their historic, social and cultural context. This course counts as an option to comply with the requirements of literature on general education. Face to face, hybrid and online course

**ESPA4231 - Puerto Rican Literature I.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3211-3212.*

A study of principal authors of Puerto Rican literature from its beginnings to the present. (c) face to face, hybrid and online course

**ESPA4232 - Puerto Rican Literature II.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3211-3212.*

A study of principal authors of Puerto Rican literature from its beginnings to the present. (c) face to face, hybrid and online course

**ESPA4233 - Contemporary Puertorrican Literature.**

*3 credits. Prerequisites: basic Spanish or its equivalent.*

the evaluation and analysis of Puerto Rican literature of the 1950's to the present. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2021.

**ESPA4236 - Spanish Morphosyntax.**

*3 credits. One-hour lecture and two hours discussion.*

Identification of morphological and syntactic units of the Spanish language based on current morphosyntactic models. Study of general derivation and flection paradigms, formals categories, word order, structure and function. Practical exercises on morpheme identification and word order. Face-to-face, hybrid and online course. Effective for January 2021.

**ESPA4237 - Literature and Science in Puerto Rico.**

*Three credits. Three hours of lecture and discussion per week.*

An overview of the stylistic, thematic and ideological relationship between Puerto Rican literature and scientific discourse during the nineteenth and twentieth centuries. the course is directed to students who have an interest in analyzing the relationship between the disciplines of literature, science and history from an interdisciplinary perspective. This course is an option to fulfill the general education literature requirements. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2023.

**ESPA4251 - Literature of the Golden Age.**

*Three credits. Three hours of lecture per week.*

Lectures accompanied by the reading of selected works.

**ESPA4252 - Literature of the Golden Age.**

*Three credits. Three hours of lecture per week.*

Lectures accompanied by the reading of selected works.

**ESPA4265 - Latin American Literature-compendium.**

*3 credits. Three hours of lecture per week.*

Abbreviated course of Latin American literature from colonial times to the present. Lectures, readings and commentary of works of principal authors and literary epochs. (c)

**ESPA4266 - Mythology and Spanish American Literature.**

*Three credits. One hour of lecture and two of discussion per week.*

Study of mythology in Spanish American literature from an interdisciplinary perspective. Works of different genres of Hispanic American writers of diverse historic epochs will be considered. This course is an option to fulfill the general education literature requirement.

**ESPA4267 - Puerto Rican Literature-compendium.**

*3 credits. Three hours of lecture per week.*

Abbreviated course of Puerto Rican literature; its development and characteristic within the framework of Latin American writers.

**ESPA4281 - Lyric Poetry in Puerto Rico.**

*3 credits. Three hours of lecture per week.*

A panoramic study of Puerto Rican poetry from its beginnings until today. An analysis of the most prominent authors, their themes and style in different epochs.

**ESPA4282 - Lyric Poetry in Puerto Rico.**

*3 credits. Three hours of lecture per week.*

A panoramic study of Puerto Rican poetry from its beginnings until today. An analysis of the most prominent authors, their themes and style in different epochs.

**ESPA4285 - Seminar.**

*No credits. Three hours of seminar per week Prerequisites: REQUIRED FOR ALL STUDENTS MAJORING IN SPANISH.*

An introduction to the methods of research and literary criticism.

**ESPA4286 - Hispanic Poetry Seminar.**

*Three credits. May be repeated up to a maximum six times.*

Analysis and discussion of Hispanic poetry from Spain, Spanish America and Puerto Rico, from an interdisciplinary perspective. Students will develop critical competence in the context of the production of Hispanic literature. the texts to be studied and the theoretical framework will vary with the theme. May be repeated up to a maximum of six credits with topic change. This course is an option to fulfill the general education literature requirement.

**ESPA4331 - the Theater of Federico Garcia Lorca.**

*3 credits. Three hours of lecture per week.*

Study of the dramatic technique of the author through the analysis of his plays, based on the current classification of dramatic genres.

**ESPA4332 - the Theater of Federico Garcia Lorca II.**

*3 credits. Three hours of lecture per week.*

Study of the dramatic technique of the author through the analysis of his plays, based on the current classification of dramatic genres.

**ESPA4406 - Seminar in Transcultural Perspectives on Hispanic Literature.**

*3 credits. Prerequisites: THREE*

Analysis and discussion of topics Hispanic literature that trace correspondences and continuities between the literary productions of both sides of the Atlantic. A corpus of Spanish literature and Hispano-American literature is explored according to its pertinence to the subject. the development of critical competence is especially considered in the context of the production of Hispanic literature. the analyzed texts and the theoretical foundation will vary according to the subject. This is an elective course for Hispanic studies major students, students from the college of humanities, and from the university. the course can be repeated up to a maximum of six credits with different thematic studies. Theme: poets and police: Hispanic criminal novel. Face-to-face, hybrid and online. Effective august 2021.

**ESPA4805 - the Narrative Art of Onetti, Cortazar and Borges.**

*3 credits. Three hours of lecture per week.*

Study of the short story production of three authors which are representative of contemporary Spanish American literature, Juan Carlos Onetti, Julio Cortazar, and Jorge Luis Borges. Analysis of the techniques through which the literary text is forged, with reference to the most recent critical studies.

**ESPA4806 - the Poetry of Vallejo, Neruda and Gorostiza.**

*3 credits. Three hours of lecture per week.*

Study of the poetic production of three poets which are representative of contemporary Spanish American literature. Analysis of the techniques through which the poetic text is forged. Study of the literary and historical conditions which influenced the authors' cosmology and their art. the literary theories sustained by these poets will be studied, as well as the relationship of these theories with their creative exercise.

**ESPA4885 - Seminar on Research Methods and Literary Theory.**

*Three credits. Three hours of seminar per week.*

A study of texts related to research methods in the field of Hispanic studies. Representative texts of different schools of literary theory will also be examined. Readings will be directed towards the development, writing and revision of an undergraduate research paper written by students majoring in Hispanic studies.

**ESPA4886 - Introduction to Literary Theory.**

*Three credits. One hour of lecture and two of discussion per week.*

The course examines representative texts of the main schools of the 20th century literary theory: Russian formalism, structuralism, poststructuralism and deconstruction, Marxist, gender studies, postcolonial, and psychoanalytic criticism. the course is designed for students who plan to pursue work in the area of literary studies. Face to face, hybrid and online course

**ESPA4887 - Seminar on Research Methods and Undergraduate Thesis Preparation.**

*3 credits. Three hours of seminar per week Prerequisites: ESPA 4886.*

Study application of literary theories and research methods in the field of Hispanic studies. the course is directed towards the development, writing and revision of an undergraduate research paper by students majoring in Hispanic studies. Face-to-face, hybrid and online course.

**ESPA4990 - Special Topics in Hispanic Literature.**

*One to Three credits. One to three*

Analysis and discussion of pertinent topics in Hispanic literatures. the course explores a specific group of texts in the context of a particular theoretical debate. in each case, the course will develop critical competence in the specific context of the literary Hispanic culture. the texts to be studied and the theoretical framework will vary with the theme. May be repeated up to a maximum of six credits with topic change.

**ESPA4991 - Interdisciplinary Approaches to Hispanic Linguistics.**

*Three credits. One hour of lecture and two of discussion per week.*

Three credits. One hour of lecture and two of discussion per week.

**ESPA4992 - Special Topics in Creative Writing.**

*One to Three credits. Half an hour to one hour of lecture and half an hour to two hours of workshop*

*Prerequisites: AUTHORIZATION OF PROFESSRO.*

Workshop of diverse topics in creative writing. the course explores the history and practice of genres of creative writing in the context of a particular debate. It addresses the development of writing skills for creative writing. the texts to be analyzed and the theoretical framework will vary according to chosen genres. It may be repeated up to a maximum of six credits. With different topics. Themes: workshop poem - face to face, hybrid and online course this course is double with code ESIN 4992

**ESPA4993 - Interdisciplinary Themes in Caribbean Literature and Culture.**

*Three credits. Two hours of discussion and one of lecture per week.*

Analysis and discussion of themes contemporary Caribbean literature and continuities between diverse aesthetic productions from the Spanish, English and French Caribbean. This course focuses on the study of a corpus of Caribbean literature and culture, with special emphasis upon the theoretical exploration of Caribbean space and Caribbeanness in its various

**ESPA4997 - Hispanic Dramatic Literature.**

*Three credits. One hour of lecture and two hours of discussion per week.*

Analysis and discussion of plays written in Spanish from Spain. Spanish America, and Puerto Rico, among others. the course will address the work and its relationship with the author, the epoch, and criticism and literary theory from an interdisciplinary perspective. the texts and theoretical framework may vary with the

theme. May be repeated up to a maximum of six credits with topic change. This course is an option to fulfill the literature requirement of the general education component. Topic: "esperpento", censorship and imagination: theater in Spain xx-xxi. Face-to-face, hybrid and online.

### **ESPA4998 - Interdisciplinary Themes in Spanish Literature.**

*Three credits. Three hours of lecture and discussion per week.*

Analysis and discussion of themes of Spanish literature that trace correspondences and continuities between diverse artistic productions of the same cultural phenomenon. the course will explore a corpus of Spanish literature in relation to other cultural manifestations, such as the plastic arts, music, film, performance, etc., in accordance with their relevance to the topic. Students will develop critical competence in the context of the production of Hispanic literature. the texts to be studied and the theoretical framework will vary according to the theme. May be repeated up to a maximum of six credits with different topics. This course is an option to fulfill the general education literature requirement. Theme: Cervantes. Face-to-face, hybrid and online modalities. Effective August 2021.

### **ESPA4999 - Interdisciplinary Themes in Spanish American Literature.**

*Three credits. Two hours of discussion and one of lecture per week.*

Analysis and discussion of themes of Spanish American literature that trace correspondences and continuities between diverse artistic productions as a same cultural phenomenon. the course will explore a corpus of Spanish American literature in relation to other cultural manifestations, such as the plastic arts, music, film, performance, etc., in accordance with their relevance to the topic. Students will develop critical competence in the context of the production of Spanish American literature. the texts to be studied and the theoretical framework will vary with the theme. May be repeated up to a maximum of six credits with topic change. the course is an option to fulfill the general education literature requirement. Themes: let me tell you. from the medieval exemplum to the contemporary tale face to face hybrid and online courses. Themes:

### **FILO3003 - Introduction to Philosophy.**

*Three credits. Three hours of discussion per week Prerequisites: CONSENT OF THE DIRECTOR.*

Introduction to the methods of philosophy, its problems and questions throughout its history. Study of the relationship of philosophy with other disciplines and of its place in society. (c) this course will be offered face-to-face, hybrid and online modalities.

### **FILO3015 - Problems and Concepts of Ancient Thought: Metaphysics and Epistemology.**

*3 credits. Three hours of lecture per week Prerequisites: FILO3001*

the course will be based on the study of issues and concepts of some ancient theories of knowledge in the pre-Socratic thinkers or in Plato, or the status of language for the sophists and Plato. the course will be based too on the study of issues and concepts of some ancient metaphysical theories; for instance, the materialistic conception of being in thinkers like Empedocles or Epicuros; or the Platonist theory of forms and their relationship with the sensible world.

### **FILO3025 - Problems and Concepts of Ancient Thought: Ethics and Politics.**

*3 credits. Three hours of lecture per week*

This course will be based on the study of issues and concepts of ancient ethics; for instance, how one can become virtuous. As shown in Plato or Aristotle. the course will be based too on the study of issues and concepts of ancient political philosophical theories; for instance, the concept of constitution and of the best regime in Plato or Aritstotle; or the nature and function of the law in Plato, Aristotle or Lucrecia. Face-to-face, hybrid and online modalities. Effective august 2021.

### **FILO3045 - Pre-philosophical Thought.**

*3 credits. Three hours of discussion per week.*

A systematic study of the origins of thought and its cultural manifestation, for example, oriental and pre-Columbian wisdom. Special emphasis will be placed in the close relationship between this thought, ethics and religion; its differences and similarities with occidental thought and the political and social systems from which it originated. Face-to-face, hybrid and online course

### **FILO3065 - Medieval Philosophy.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001.*

This course consists of a short introduction to the origins of Christian thought (patristic) followed by the reading of representative works by st. Augustine, st. Anselm, st. Bonaventure, st. Thomas, William of Ockham, duns scotus. Finally, there will be a study of the changes that led to the origin of modern thought (renaissance).

### **FILO3176 - Methodology of Research in the Humanities: Papers and Thesis.**

*Three credits. Two hours of lecture and one of discussion per week.*

This course offers the students the opportunity to acquire advanced skills for the search and use of information in the research of topics in the humanities. The end result will be a research paper or a thesis proposal.

### **FILO3177 - Philosophy and Film.**

*Three credits. Two hours of lecture and one of discussion per week.*

This course explores philosophy's reflections about film as an artistic genre and the ways in which film proposes or exemplifies philosophical ideas in novel ways. It will address some of the most evident thematic links between philosophy and film, for example, the relationship between images, appearances and reality; narrative memory and the construction of subjectivity; testimony and truth; experiences and temporality, among others. This course will be offered face-to-face, hybrid and online modalities.

### **FILO3195 - Ethics from a Global Perspectives.**

*Three credits. Three hours of lecture per week.*

Ethical analysis applied to social, environmental, and economic problems with global repercussions whose solution demand concerted efforts of groups and individuals. Possible ethical solutions in the analysis of the responsibilities of citizens of the developed countries will be identified. Face-to-face, hybrid and online course this course exists at Mayagüez campus. Created for UPRRP since August 2015

### **FILO4010 - French Philosophy.**

*Three credits. Three hours of lecture per week.*

Course on the main French philosophers from the renaissance to contemporary times, in the great diversity of their topics and schools. The course will pay special attention to the study of the French philosophical language, in particular to the translation of central concepts,

### **FILO4016 - Philosophical Analysis of Educational Concepts.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001.*

Analysis of central educational concepts through an examination of the relation among the so-called essential elements of the educational process, i.e., the aims of education, learning, teaching, experience, curriculum, method, moral education, freedom, and responsibility in education.

### **FILO4021 - Ethics.**

*3 credits.*

An examination of the main concepts and theories of ethics from antiquity to the present day through

philosophical representative texts. This course will be offered face-to-face, hybrid and online modalities.

**FILO4022 - Themes and Problems in the Ethics.**

*3 credits. Three hours of lecture per week.*

A critical examination of some current ethical problems, such as those that accompany the development of specialized scientific disciplines and others that arise in a globalized society.

**FILO4024 - Clinical Ethics.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

the philosophical, social and cultural aspects relevant to some of the ethical problems that arise today in the field of life sciences will be examined, with special attention to clinical ethics. Key concepts such as health, illness, diagnosis, self-care, clinical care and attention will be examined, as well as conflicts and ethical solutions raised in the field of a health culture morally marked by the valuation of personal autonomy and the aspiration to equality of all human beings. This course will be offered in face-to-face, hybrid and online modalities.

**FILO4031 - Logic I.**

*3 credits. Three hours of discussion per week.*

Introduction to logic. the following subjects will be considered: valid forms of reasoning with the analysis of examples and invalid forms of reasoning (fallacies); rules of inference demonstrations (with practical exercises); syllogistics; natural deductive methods. Propositional logic: the language  $\mathcal{L}$ : notation, formation rules, truth tables, disjunctive normal form and reduction of connectives, axiomatization, completeness, consistency, and decidability. (c) face to face hybrid and online course

**FILO4032 - Methalogic.**

*3 credits. Three hours of lecture per week Prerequisites: FILO4031*

An examination of the most important properties of logical languages and deduction systems. Among others, the following topics will be covered: the syntax and semantics of first and second order logic, proof, interpretation, axiomatization, soundness, completeness, compactness, categoricity.

**FILO4055 - 17th Century Philosophy: from Descartes to Leibniz.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

This course entails a textual, conceptual and historiographical approach to some of the most representative figures of 17th century western philosophy. the starting point will be r. Descartes, considered to be the preeminent thinker of philosophical modernity due to the importance of his take on the problem of method and the certainty of self-consciousness. Class discussion will also focus on works by other authors relevant to the history of philosophy and their contributions, specially concerning the realms of metaphysics and epistemology but also politics and aesthetics. in this regard figures such as f. Bacon, t. Hobbes, b. Pascal, b. Spinoza, n. Malebranche can be included in the course. the class concludes with a discussion of central aspects of g. W. Leibniz' philosophy, a philosopher of central importance in the transition to the philosophical though of the 18th century. This course will be offered, face-to-face, hybrid and online. Effective august 2023.

**FILO4065 - Modern Ethics.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Study of the ethical dimension in the works of philosophers belonging to the historical period that begins in the 17th century and ends with the critical-genealogical approach to morals which originated in the 19th century. This course can focus on different themes such as Descartes "provisional morals" Hobbes emphasis on passions and self-preservation, Spinoza's ethics of perseverance, desire and reason. Also, Hume's critical

remarks in respect to moral judgment, the importance of moral sense in authors like a. A. C., earl of Shaftesbury and f. Hutcheson, the different aspects of Kant's practical philosophy, and its radicalization in Gfichte as well as the ethical life in g. W. F. Hegel. Finally, one could also consider j. Bentham and j. S. Mill's utilitarianism or Neitzsche's critical approach regarding the foundation and value of western morals.

### **FILO4075 - Pragmatism.**

*3 credits. Three hours of lecture per week.*

Analysis of the origin of pragmatism, and the foundational seminal works of Peirce, James and Dewey. Analysis of the central pragmatic ideas, such as: theory and practice; the role of idea; experience and experimentalism, logic of inquiry, theory of valuation and the pragmatic philosophical and social reconstruction. Examination of the decadence of pragmatism and its recent return to the contemporary philosophical debate.

### **FILO4101 - Women Philosophers.**

*Three credits. Three hours of lecture per week.*

Interdisciplinary course which explores the presence, importance and specificity of feminine philosophical thinking and its influence on the conceptualizations, topics and methodologies on philosophy and the sciences of culture. We will study the themes and main results of women's thought through history from antiquity to the modern contemporary era. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021.

### **FILO4181 - Pre-Socratic Philosophy.**

*3 credits. Three hours of discussion per week.*

An examination of some of the main works by pre-Socratic philosophers. This course will be offered, face-to-face, hybrid and online modalities.

### **FILO4195 - Philosophy of Plato.**

*3 credits. Three hours of lecture per week*

Study of the basic concepts and problems of Plato's philosophy based on a close reading of some of his texts. This course will be offered face-to-face, hybrid and online modalities.

### **FILO4205 - Aristotelian Philosophy.**

*3 credits. Three hours of lecture per week.*

Study of the basic concepts and problems of Aristotle's philosophy based on a close reading of some of his texts. This course is delivered in campus-based teaching mode, face to face hybrid and online course.

### **FILO4212 - Hellenistic Philosophy.**

*3 credits. Three hours of lecture per week.*

A historical survey of Hellenistic thought. At least one representative author from each of the three main philosophical schools (epicureanism, stoicism skepticism) will be studied. This course is delivered in campus-based teaching mode or hybrid mode or in distance-learning mode. Since august 2019 this course change in modality to campus-based, face to face hybrid and online course.

### **FILO4215 - Philosophy of Mind.**

*3 credits. Three hours of lecture per week.*

This course combines classical and contemporary readings on the philosophy of mind. It examines the problem of the nature of mental states, studying the most influential proposals relative to the body/mind problem: dualism, materialism, idealism and functionalism. It examines the problem of mental causation, and the question about causal powers of mental states. It looks into the nature of the relation between



thought and imagination, considering the problem of the nature and function of mental images. the differences and similarities between connectionism and associationism are taken into account, as well as the problem of innate ideas.

### **FILO4217 - Metaphor and Thought.**

*3 credits. Three hours of lecture per week. Prerequisites: FILO 3003*

An examination of recent proposals on the nature of metaphor. Some topics to be studied are: semantic and pragmatic approaches to metaphor, non-linguistic metaphors, metaphor and cognition, the role of metaphor in science and philosophy, metaphor and culture.

### **FILO4245 - Philosophy of Kant.**

*3 credits. Three hours of lecture per week.*

A study of the philosophy of Kant through one or more of his three critiques, other minor works, and the commentary of his critics and interpreters

### **FILO4246 - 18th Century Philosophy: from Locke to Kant.**

*Three credits. Two hours of conference and one hour of discussion per week.*

This course entails a textual, conceptual and historiographical approach to some of the most representative figures of 18th century western philosophy, having as historical background the enlightenment. the starting point will be the philosophy of John Locke, who has a central role in the philosophical discussions throughout the 18th century. One of the main points of this course will be the relationships between reason and experience, as one can appreciate in g. Berkeley and d. Hume. from the theoretical conflicts that describe the tensions between reason and experience and from the transformation of cartesian subjectivism, will rise Kant's critical philosophy, which parts from experience as the starting point of our knowledge but persevere in the search for a priori principles. This course is centered in the comprehension of philosophical texts and is aimed at philosophy students as well as to the rest of the students.

### **FILO4247 - 19th Century Philosophy: from Hegel to Nietzsche.**

*Three credits. Two hours of conference and one hour of discussion per week.*

This course entails a textual, conceptual and historiographical approach to some of the most representative figures of 19th century western philosophy. in this century one can see the extraordinary attempt to comprehend all knowledge and organize it towards a particular end, that is, freedom. Hegel will set the pattern of a reason that turns itself into history but in reaction to the claim of its rationality new ways of thinking will rise that will defend the singular and concrete existence (Kierkegaard), that will put the emphasis on drives, the affective and the corporeal (Schopenhauer, Nietzsche) and that will take a critical stand towards political economics, producing new philosophical consequences (Marx). This course is centered in the comprehension of philosophical texts and is aimed at philosophy students as well as to the rest of the students. Face-to-face, hybrid and online course

### **FILO4252 - German Philosophy.**

*3 credits. Three hours of discussion per week.*

Study of German philosophy since the 19th. Century to the present, including topics such as romanticism, German idealism and its critics.

### **FILO4254 - Vitalist Philosophies.**

*3 credits. Three hours of lecture per week.*

Study of representatives works of vitalist philosophers including Nietzsche, Dilthey and Bergson, among others.

**FILO4261 - Existentialism.**

*3 credits. Three hours of lecture per week.*

A study of philosophy of existentialism as articulated by authors such as Jaspers, Heidegger, Sartre, Marcel, Merleau-Ponty, Camus among others. The course will also consider the historical background, philosophical influences, and criticisms of existentialism.

**FILO4262 - Origins of Analytic Philosophy.**

*3 credits. Three hours of lecture per week Prerequisites: FILO3003*

A study of foundational works in analytic philosophy authors such as Frege, Russell, Moore, Wittgenstein, Austin, Carnap, Quine and others. Face-to-face, hybrid and online course new description since August 2011

**FILO4263 - Marx and Marxisms.**

*3 credits. Three hours of lecture per week.*

A study of both Marx's philosophy and further developments in Marxian thought such as "orthodox" Marxism (e. G. Lenin), "neo-Marxism" (e. G. Gramsci) and "post-Marxism" (e. G. Laclau), among other variants.

**FILO4266 - Introduction to Phenomenology.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FILO 3003, 3071, AND 3072.*

Expositions, explanations, and discussion concerning the historical roots, the theoretical tasks, the concepts and basic theories as well as the main methods of transcendental phenomenology as developed by E. Husserl. On the basis of ideas, reference is made to the classical ideal of philosophy and its renewal and reformulation by the Cartesian philosophy, to the task of founding philosophy as a rigorous science with a field of objects amenable to apodictic knowledge, and capable of describing eidetically the structures of consciousness and its structures, transcendental constitution, synthesis, transcendental ego, rational consciousness and evidence. Discussion of the methods of free variation for the apprehension of essences as well as the method of phenomenological reduction shall be discussed. 21-01-03

**FILO4275 - History of Logic.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001.*

The first part of the course will cover the general history of logic since ancient times up to the eighteenth century (Aristotle; stoic and scholastic contributions; Port Royal; Leibniz; etc.). The second part includes the development of symbolic logic from its precursors (Boole, de Morgan), Frege's contributions; its constitution in *Principia Mathematica*; up to the latest contributions (Hilbert, Łukasiewicz, Gödel, etc.).

**FILO4285 - Introduction to Philosophy of Logic.**

*3 credits. Three hours of lecture per week Prerequisites: FILO4031*

Topics to be covered include: the metaphysics of classical logic and of some philosophically interesting non-classical logics. Such as modal logic, epistemic logic, and deontic logic; the relationship between logic and natural language; the epistemology of logic.

**FILO4301 - Theory of Knowledge I.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001.*

A critical study of the theory of knowledge as a special philosophical discipline; discussion of problems like the nature of knowledge, how do we know, the grounds of knowledge, forms and types of knowledge, etc. These problems will be considered in the light of the different theories that have tried to solve them throughout the history of philosophy.

**FILO4351 - Philosophy of Language.**

*3 credits. Three hours of lecture per week Prerequisites: FILO 3003*

Topics to be studied include meaning, reference, the uses of language, the mind/language/world relation, the relationship between natural language and logic, the semantics of proper names and definite descriptions, the main theories of linguistic communication, metaphor.

**FILO4352 - Topics in Philosophy of Language.**

*3 credits. Prerequisites: FILO3003*

Topics to be studied include: quantification in natural language, language and metaphysics, linguistic relativism and language universals, language evolution, language and cognition, truth and pragmatic theories of meaning.

**FILO4395 - Philosophical Cosmology.**

*3 credits. Three hours of lecture per week.*

Study of the philosophical thought about the world and its origins from the standpoint of different philosophical traditions, including western, Asian and pre-Colombian traditions.

**FILO4425 - Aesthetics.**

*Three credits. Three hours of discussion per week Prerequisites: PHIL 3001 AND OTHERS.*

A critical study of aesthetics as a separate philosophical discipline. This shall include its historical development and such problems as the fundamentals of aesthetics, the idea of beauty, the aesthetics judgments, and the tenets of the so-called formalism, intuitionism, psychologism, sociologism, and axiologic schools. (c) face to face hybrid and online course

**FILO4435 - Philosophy of Art.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001.*

A discussion of the concept of art as it emerges historically from classic antiquity up to the nineteenth century, inclusive in such thinkers as Plato, Aristotle, Kant, Hegel, Nietzsche, Santayana, James and others. (c) face to face hybrid and online course

**FILO4445 - Philosophy of Literature.**

*Three credits. Three hours of discussion per week Prerequisites: PHIL 3001 AND OTHERS.*

Philosophic theories of literature (considering the three major traditional genres: lyrical, epic and dramatic) according to thinkers such as Aristotle, pseudo Longinus, Boileau, Kant, Hegel, Sartre, etc.

**FILO4455 - Philosophy and Literature.**

*3 credits. Three hours of lecture per week.*

In this course, the relationships between philosophy and literature will be examined from a textual approach, through the study of representative works, and thematic, through theoretical discussions (for example, on identity, the tragic or the demarcation between the literary and philosophical fields). This course offered in face-to-face, hybrid and online modalities.

**FILO4471 - Philosophy of Science I.**

*Three credits. Three hours of discussion per week Prerequisites: PHIL 3001 AND OTHERS.*

Introduction to the main problems of the philosophy of science. the nature of laws in the empirical sciences; explanation and prediction; verification and falsification; the problem of induction; hierarchy in theories and laws, and reduction of theories.

**FILO4475 - Philosophy of the Human Sciences.**

*3 credits. Three hours of lecture per week.*

Critical discussion of the differences of the objects of study and the methodologies between the natural and the human sciences. This course will be offered in face-to-face, hybrid and online course.

**FILO4495 - Philosophic Anthropology.**

*3 credits. Three hours of lecture per week.*

A general introduction to anthropology. A critical exploration of thematic relations between these disciplines as well as their conceptual and argumentative influences. Course offered face-to-face, hybrid and online.

**FILO4501 - Philosophy of the Social Sciences I.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001.*

Definition of the domain proper of social science and its distinction from the proper to nature science. its specific difficulties: science and ideology; sciences and values.

**FILO4511 - Political Philosophy.**

*3 credits. Three hours of lecture per week.*

An examination the concept of the political from antiquity to the present day. Special attention will be paid to the development of liberalism as well as to its main critics. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2022. New description since January 2012

**FILO4512 - Liberalism.**

*Three credits. Three hours of lecture per week.*

Reflection on the historical, cultural and conceptual origins of the political tradition known as liberalism. These are, among others, the individual, freedom, privacy, tolerance, and the moral neutrality of the public sphere. Consideration of the contemporary debate's liberalism has stirred such as its relationship with economic liberalism, the limits to private property, tolerance to free speech and the challenges to secularism.

**FILO4535 - Philosophy of Religion.**

*3 credits. Three hours of lecture per week Prerequisites: PHIL 3001*

The definition and place of the philosophy of religion within the different disciplines interested in religion. Study of some key questions, such as; the nature, values and functions of religion; the meaning or absence of meaning of religious language; the constituent elements of mystical experience and its cognitive claim; the relationship between reason and faith; and the critical analysis of arguments for and against god's existence among others.

**FILO4539 - Philosophy of Law.**

*3 credits. Three hours of lecture per week.*

An examination of various theories about the concept of law and legal systems, the justification of the state, the relationship between law and morality, theories of justice, among other issues. Both classical and contemporary sources will be read.

**FILO4571 - History of Ideas I.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001.*

Historical tracing and analysis of those ideas concepts that have molded the mind of western man (freedom, reason, God, community, death, truth, etc.). the methodological aspects of a history of ideas will be examined: the socio-historical origin of ideas; methods and underlying hypothesis of a historical treatment of ideas. Epistemological cross-sections will be made for the study of complexes of ideas which characterize certain periods of history. Face-to-face, hybrid and online course

**FILO4581 - Philosophy of History I.**

*Three credits. Three hours of discussion per week Prerequisites: PHIL 3001 AND OTHERS.*

An examination of the different approaches from which human history has been conceived, bringing to light the basic concept and arguments of the traditional philosophy and history (the totalizing views, the notions of progress and sense; the moving forces of history, etc.) in thinkers such as Augustine, Bossuet, Vico, Voltaire, Hegel, Kant, Marx, Spengler, Toynbee, and others. (c)

**FILO4582 - Philosophy of History II.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001.*

Starting with the distinction between philosophy of history and history as a science (as drawn in the work of Dilthey, Rickert, Popper, Hempel, Althusser, Danto, Gardiner, Dray) the concepts and assumptions of the philosophy of history will be examined from a critical-analytical standpoint.

**FILO4605 - Research and Writing Methods in Philosophy.**

*Three credits. Three hours of lecture per week Prerequisites: PHIL 3001 AND CONSENT OF THE DIRECTOR.*

the course will deal with the difficulties to select and demarcate a suitable subject for philosophical inquiry, both for term papers and master's thesis. Research techniques will be examined as well as procedures for the preparatory work (outlines, notes, files, etc.) and the writing of the essay to be submitted (composition, bibliography, footnotes, introduction, and conclusions, etc.). the students shall submit a paper on the subject-matter used during the seminar to illustrate the explanations.

**FILO4655 - Great Modern Philosophers.**

*3 credits. Three hours of lecture per week.*

A study of topics and problems such as reason, subjectivity, body, affects and freedom in the works of the most outstanding modern philosophers such as Francis Bacon, Hobbes, Descartes, Pascal, Locke, Leibniz, Berkeley, Hume, Kant, Fichte, Hegel, Schelling, Schopenhauer, Marx, Comte, etc. Face-to-face, hybrid and online modalities. Effective august 2021.

**FILO5006 - Latin American Philosophy.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: FOR GRADUATE STUDENTS, PERMISSION OF THE DIRECTOR*

This course approaches the problem of Latin American philosophy identity, its characteristics, and European and north American influences. It also explores the reappropriations that Latin American philosophy has done of diverse currents of thought, resulting in original cultural contributions to philosophy and beyond. Course offered face-to-face, hybrid and online. Effective august 2022. Prerequisites are removed. Effective from august 2022.

**FILO5007 - Philosophy of Time.**

*3 credits. Three hours of lecture per week.*

History of the philosophical discussion of the problem of timelines from the beginning (oriental philosophy) to the present.

**FILO5035 - Philosophy and Aesthetics of Music Three Credits. Two Hours of Lecture and One of Discussion Per Week. Prerequisite: Permission of the Director for Graduate.**

*Students. credits.*

Exploration of the relationship between the musical arts and individual phenomena, (for example, the relation of music to cognitive processes) or collective processes, such as other artistic forms. Requires the appreciation of musical pieces as well as the reading of philosophical texts on the topic, a selection of which

will encompass classical through contemporary works. It is aimed for students of music and philosophy and all those interested in exploring the relationship between music and other areas of knowledge and culture. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021.

### **FILO5036 - Philosophy of Photography.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR FOR GRADUATE STUDENTS.*

Course of themes related to 1. the study of philosophy in its various aspects (epistemological, aesthetical, ethical and political); 2. the study of various photographers and various kinds of photographs with the aim of applying the theoretical of the first part of the course and acquiring an interpretative ability for photographs. This course will be offered face-to-face, hybrid and online modalities.

### **FRAN3021 - Experimental French I.**

*Three credits. Five hours of lecture per week.*

First year French with special emphasis on writing and comprehensive reading. (c)

### **FRAN3022 - Experimental French II.**

*Three credits. Five hours of lecture per week.*

First year French with special emphasis on writing and comprehensive reading. (c)

### **FRAN3023 - Audio-lingual Laboratory.**

*No credits. One and half hour of laboratory work per week Prerequisites: CONCURRENTLY WITH FREN.3021-3022.*

The audio-lingual laboratory will be a requisite for the completion of the first year French course. the laboratory practice will add and reaffirm the knowledge and skills obtained in the classroom. the practice will be divided in 30 minutes sessions three times a week.

### **FRAN3024 - Audio-lingual Laboratory.**

*No credits. One and half hour of laboratory work per week Prerequisites: CONCURRENTLY WITH FREN 3021-3022.*

The audio-lingual laboratory will be a requisite for the completion of the first-year French course. the laboratory practice will add and reaffirm the knowledge and skills obtained in the classroom. the practice will be divided in 30 minutes sessions three times a week.

### **FRAN3031 - Intensive French I.**

*3 credits. Five hours of lecture and 2.5 of lab per week Corequisites: FRAN3031.*

This course is for beginner students of French and focuses on the development of the communicative competence through the four basic skills (oral and written comprehension, reading and writing) and the contact with French and francophone cultures. Face to face, hybrid an online course

### **FRAN3032 - Intensive French II.**

*3 credits. Five hours of lecture and two and a half hours of laboratory per week Prerequisites: FRAN3031. Corequisites: FRAN 3031L PART II.*

Second semester of the intensive French course. This course focuses on the development of the communicative competence through the four basic skills (oral and written comprehension, reading and writing) and the contact with French and francophone cultures. Face to face, hybrid and online course

### **FRAN3035 - Intermediate French for Specialists.**

*3 credits. Four hours of lecture per week Prerequisites: FRAN 3032*

This course completes the sequence for the basic courses in French language it will strengthen communicative competency through the four functional language skills (oral and written comprehension, reading and writing) and cultural awareness, as well as introduce intermediate grammar material. This course will be offered face-to-face, hybrid and online modalities.

**FRAN3060 - Abridged Course in French Diction and Phonetic.**

*Three credits. Two hours of lecture and one of laboratory work per week Prerequisites: FREN 3045 OR ITS EQUIVALENT.*

A study of the sounds, intonation and rhythm of the French language. Oral practice using selections from French plays, both classic and modern, as well as other types of poetry carefully selected. (c) face to face, hybrid and online course

**FRAN3801 - French as a Tool of Research.**

*Three credits. Three hours of lecture per week.*

Specific attention to reading and translating various texts for the purpose of research in French in the honor program.

**FRAN3802 - French as a Tool of Research.**

*Three credits. Three hours of lecture per week.*

Specific attention to reading and translating various texts for the purpose of research in French in the honor program.

**FRAN3995 - Study Trip to a Francophone Country.**

*One to Six credits. Two hours of lecture and one of discussion per week Prerequisites: FRAN3032, TO HAVE 18 YEARS, HAVE COMPLETED THE FIRST TWO YEARS OF THE B.A., AN INTERVIEW AND AUTHORIZATION OF THE DIRECTOR.*

This course will provide the student a life experience in a francophone (French-speaking) country. on the one hand, the student will study the language culture, and literature of the francophone country (France, Canada, Belgium, Switzerland, Africa, Maghreb or the Caribbean) in an accredited institution in the chosen country. on the other hand, the course will cover cultural aspects and cross-cultural competence outside the classroom providing excursions, cultural activities and personal interaction that will permit the student to get to know the people, the landscape, the geography, the culture and the distinctive characteristics of the country. the student may repeat the course with different topics and in different institutions up to a maximum of 9 credits. This course will be conducted in French.

**FRAN4001 - Survey of French Literature I.**

*3 credits. Three hours of lecture per week*

Study of key texts in French literature from the middle ages through the 17th century and the context and literary movements in which they were written. Face to face, hybrid and online course

**FRAN4002 - Survey of French Literature II.**

*3 credits. Three hours of lecture per week Prerequisites: FRAN4008*

Study of key texts in French literature from the 17th century through the early 20th century, and the context and literary movements in which they were written. It also focuses on the study of literary history, and critical literary analysis of texts. Face-to-face, hybrid and online course. Effective January 2021.

**FRAN4005 - the French Novel of the Twentieth Century.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 3051-3052, 3075 OR ITS EQUIVALENT.*

Thematic and stylistic study and commentary of works of outstanding contemporary novelists. Course face-

to-face, hybrid and online modalities.

**FRAN4008 - Abridged Course in Advanced French Grammar and Composition.**

*Three credits. Three hours of lecture per week Prerequisites: FRAN 3045 OR ITS EQUIVALENT.*

the course aims at extending and improving students' ability to use oral and written French while at the same time developing an appreciation for literary French through the use of carefully selected texts. (c) face-to-face, hybrid and online course

**FRAN4009 - Independent Study in French.**

*Three credits. Three hours of independent study per week Prerequisites: FRAN 4008. AUTHORIZATION OF THE PROFESSOR, ACADEMIC ADVISOR, AND THE DIRECTOR OF THE DEPARTMENT. PRESENT TO THE DIRECTOR, THE SEMESTER PREVIOUS TO TAKE THE COURSE, A PROPOSAL OF THE THEME TO BE DEVELOPED FOLLOWING THE PROCEDURES ESTABLISHED BY THE DEPARTMENT.*

Supervised individualized research in the area of French studies on topics, theoretical considerations, and problems in the discipline. This course can be taken a maximum of two times (6 credits) on different topics. 08-16-99

**FRAN4010 - French Autobiography.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FREN 3033 OR FREN 3035 OR FREN 3045. Corequisites: FREN 4008.*

This course is for b. A. Students of French who wish to practice creative writing in this language. Lectures and discussion of specific works will be used to study the origin of the autobiographical genre beginning with the confessions by St. Augustine to twentieth century authors. There will also be an analysis of the particular characteristics of the autobiographical genre of memoirs, diaries, self-portraits, and the autobiographical novel. the focus will be on the relationship of the author and the character of the literary work, and on the autobiographical pact with the reader to teach students to write their own autobiography.

**FRAN4015 - French Literature of the Sixteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 3045, 3075 OR ITS EQUIVALENT.*

General view of the 16th century in France; humanism and the French renaissance in its three periods; representative authors from each, among them Rabelais, Ronsard and the Pleiades D'aubigne, Montaigne.

**FRAN4016 - Techniques of Oral Expressions.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 3075.*

Study and practice of the various techniques of oral communication and literary analysis. (c) face to face, hybrid an online course

**FRAN4021 - Modern French Society I.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 3045, 3032 OR 3035.*

Study of contemporary French society through its political, economical, social, religious and cultural aspects. Course face-to-face, hybrid and online modalities.

**FRAN4022 - Modern French Society II.**

*Three credits. Three hours of lecture, recitation and reports per week Prerequisites: TWO YEARS OF COLLEGE FRENCH OF THEIR EQUIVALENT.*

A survey of the most important expressions of French life and culture as a background for studies in French literature.

**FRAN4025 - Classical French Theater.**



*Three credits. Three hours of lecture per week Prerequisites: FREN 3051-3052, 3075.*

Intensive study of representative plays of the three great French classical dramatics: Corneille, Racine and Moliere. This course face-to-face, hybrid and online modalities. Effective august 2021. Change in prerequisites: FRAN 4008. Effective august 2021.

### **FRAN4026 - African Francophone Literature and Cinema.**

*Three credits. Two hours of lecture and one of discussion per week Corequisites: FRAN 4008*

This course is designed for students majoring in French or modern languages. Through a variety of films, the course offers a tribune to the debate on cultural and historical aspects of Africa and the parallelism between cinema and literature. We will study to what extent the evolution of the francophone cinema corresponds to the changes lived by traditional societies facing the challenges of modernity. the axis of this debate turns around the factors that determine the representation and the expression of African women. We will explore the new cinema of immigration in France and the questions of displacement, identity and exile. the course follows thematic, literary and filmic approach, with the purpose of heightening the originality and the pertinence of the African francophone cinema.

### **FRAN4027 - French Realist and Naturalist Novel.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FRAN 4001 OR 4002.*

Introduction to the French realist and naturalist novel. This course will examine the function of the novel in nineteenth-century France beginning with the realist tradition represented by Stendhal and Balzac and ending with Zola's naturalist novel. Within this literary period we will discuss the representation of reality in Parisian society contrasted with provincial society and the influence of the "milieu" on characters' development. This course requires intensive reading, critical analysis and writing skills and an advanced level in French. This course will be offered face-to-face, hybrid and online modalities, effective august 2021. This course change in prerequisite: now is FRAN 4008. Effective august 2021.

### **FRAN4028 - Introduction to French Linguistics.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FRAN 3033-3035 OR 3045.*

Study of basic concepts, elements and levels of analysis of French linguistics (phonetics, phonology, morphology, syntax, semantics), with an overview of one or two areas of historical or applied linguistics. Face-to-face, hybrid and online course. Effective January 2021.

### **FRAN4029 - Childhood in Contemporary French Literature and Film.**

*Three credits. Two hours of discussion and one hour of lecture per week Prerequisites: FRAN4008*

Elective course which purports to familiarize French students with some of the most contemporary French novels and films by analyzing one of its major themes: the point of view of children. the four-part course will present how children learn to find their bearings around adults, what sorts of problems they face at school and in their social lives, how the offspring of immigrants meet their specific challenges, and how children's dreams clash with reality. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2023.

### **FRAN4035 - Twentieth Century French Theater.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 3060, 3075 OR ITS EQUIVALENT.*

A critical study of representative works and dramatic theories from Garry to Ionesco and Beckett.

### **FRAN4037 - European Union: Languages and Cultural Identity.**

*Three credits. Two hours of lectures and one hour of discussion per week Prerequisites: FREN 3033 OR FREN 3035 OR FREN 3045.*

This course will examine the elements that contribute to the formation of an European identity: the institutions of the EU, the expansion policy, the language of the EU, the linguistic policy towards foreign languages and regional and minority languages, the adoption of the euro and of the constitution, the question of the European state. This course is meant for undergraduate students in foreign languages who want to practice written and oral French within the socio-cultural context of the EU.

### **FRAN4038 - the Disguise and Other Themes in George Sands Novels.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: FRAN 4008.*

Presentation of the feminine and androgynous costume in the work of the writer George Sand. the functions of disguise in literature will be presented from Greek rites to French plays and novels of the 19th century. Then, the functions of the female disguise called "le deguisement sororal" and the male female disguise called "le degisement androgyne" in the development of the identity of the heroines in the work of George Sand towards the creation of an artist heroine will be examined. Independent identity formation through disguise will be analyzed mainly in two novels by George Sand: Indianna and Consuelo. This course requires intensive reading, analysis and writing work and an advanced level of language. It will be offered in face-to-face, hybrid and online modalities. Effective august 2023.

### **FRAN4045 - Introduction to French Stylistics.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 3051-3052, 3075 OR ITS EQUIVALENTS.*

Study of the stylistic resources of French through text analysis of different literary genres.

### **FRAN4046 - Pragmatic Analysis of French Press.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FRAN 3035.*

Advanced course in French, focused on the development of student's competences for analyzing the French press. in this course, students will also work on their oral and written skills, authentic documents. They will work with text from different journals and magazines such as le monde, le point, le figaro, liberation, l'express, minute and rivarol.

### **FRAN4076 - French Romanticism.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FRENCH-4008, FRENCH-4001 OR FRENCH-4002.*

Presentation of main currents and authors of nineteenth century French romanticism starting with the origins of the movement with Jean-Jacques Rousseau and Bernardin of Saint-Pierre, and through the three literary genres: poetry, theater, novels. the focus of this course will be over: nature, dream and reverie, the romantic hero.

### **FRAN4095 - Basic Concepts of Translation in French.**

*Three credits. Two hours of lecture and one of discussion per week*

This course allows students to become familiarized with basic concepts in the field of translation. We will present basic definitions, theoretical texts on translation and the different kinds of translation (technical, journalistic legal, literary, reverse translation, interpreting, etc.) and their implications. Through textual analysis in French, students will perfection their level in French and will address the translation process. We will present different kinds of texts and their specificities, as well as some basic elements of French discourse and their relevance for translation (ex. Plan, unite de sens). the main difficulties in translation from French into Spanish will also be mentioned. This course will be conducted in French. This course face-to-face, hybrid and online course. Effective august 2021.

### **FRAN4105 - French Classicism.**

*Three credits. Three hours of lecture per week.*

French classical culture through its representative authors, its foundations, trends and culmination.

**FRAN4107 - Travel Literature in the XVIII Century.**

*Three credits. Two hours of lecture and one-hour discussion per week Prerequisites: FRAN 3033 Ò 3035 Ò 3045. Corequisites: FRAN 4008.*

Through the genre of travel literature, the notion of the other during the illustration will be studied. Extracts of French travel literature in the Caribbean and south America that present a vision of the other, of the non-European, will be read from a literary, anthropological and philosophical perspective. the course will focus upon a series of themes such as the primitive world, nature, slavery, anthropophagy and religion which present an image of the new world in the xviii century. the course is intended for students in the foreign language department who study French.

**FRAN4111 - French Literature of the Eighteenth Century I.**

*Three credits. Three hours of lecture per week Prerequisites: THREE YEARS OF FRENCH OR EQUIVALENT.*

Study of the trends pertaining to the period. Lectures and commentaries on main authors and analytical study of their works.

**FRAN4112 - French Literature of the Eighteenth Century II.**

*Three credits. Three hours of lecture per week Prerequisites: THREE YEARS OF FRENCH OR EQUIVALENT.*

Study of the trends pertaining to the period. Lectures and commentaries on main authors and analytical study of their works.

**FRAN4121 - French Literature of the Nineteenth Century I.**

*Three credits. Three hours of lecture per week.*

Main literary currents of the nineteenth century. Particular attention will be given to the novel and to criticism.

**FRAN4122 - French Literature of the Nineteenth Century II.**

*Three credits. Three hours of lecture per week.*

Main literary currents of the nineteenth century. Particular attention will be given to the novel and to criticism.

**FRAN4130 - French Sociolinguistics.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FRAN 3033,3035 OR 3045. Corequisites: FRAN 4008.*

Study of the basic concepts of sociolinguistics and their application to social, regional and national varieties of modern French, including social and geographic variation, bilingualism and multilingualism, diglossia and language policy. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021. This course change in prerequisites: is now FRAN 4008. the corequisites are eliminated. Effective august 2021.

**FRAN4131 - Contemporary Literature.**

*Three credits. Three hours of lecture per week Prerequisites: THREE YEARS OF FRENCH OR ITS EQUIVALENT.*

Lectures, readings and reports on the literary trends of the 20th century.

**FRAN4132 - Contemporary Literature.**

*Three credits. Three hours of lecture per week Prerequisites: THREE YEARS OF FRENCH OR EQUIVALENT.*

Lectures, readings and reports on the literary trends of the 20th century. (c)

**FRAN4135 - Introduction to the Contemporary Novel of Quebec.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 4008.*

A historical and literary presentation of Quebec from the 19th century to the present. A sociological and structural reading and analysis of six contemporary famous novels. Course face-to-face, hybrid, and online modalities.

**FRAN4140 - African Francophone Literature.**

*Three credits. Two hours lecture and one hour discussion per week Prerequisites: FRAN 3033, 3035, 3045.*

Introduction to the cultural study and literary production of African francophone literature and the contexts that formed them. the course will focus on the literary and cultural aspects of works that belong to the oral tradition and the written patrimony of countries united by a literary language, the French, legacy of a common past.

**FRAN4146 - the French Detective Novel.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: FRAN 4008.*

Introduction to the classic French true novel, influenced by the English true novel and the American roman noir. This course will offer the student a panoramic vision of the new forms of the police-oriented popular novel in which mysteries and criminal activities organize a world full of elegant audacity, anarchism, deductible ability for logical deduction, and violent crimes. This course will be offered face-to-face, hybrid and online modalities.

**FRAN4148 - the Francophonie and the French-speaking World.**

*Three credits. Two hours lecture and one-hour discussion per week Prerequisites: FRAN-3033-3035-3045.*

Panoramic view of the development of the francophone. It deals with the birth of this concept at the end of the XIXth century and its transformation into a cultural movement in the mid-XXth century before becoming a political movement in the beginning of the XXIth century.

**FRAN4155 - French Civilization.**

*3 credits. Three hours of lecture per week Prerequisites: FRAN 3035.*

the objective of this advanced course is to improve and increase knowledge about French civilization with the use of texts and videos presenting main historical events, as well as intellectual, artistic, and social aspects of France and French people. French civilization will be presented over 5 historical periods: prehistory, antiquity, the middle age, the modern period, and the contemporary period. Face-to-face, hybrid and online course.

**FRAN4157 - Literature and Decolonization in French Caribbean.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: FRAN 3031 O 3021; FRAN 3033 O 3045 O 3035; FRAN 4008; FRAN 4001*

Analysis of literature texts dealing with the theme of colonialism from the perspective of decolonization in the field of Caribbean francophone literature. 21-01-97

**FRAN4215 - French Literature of the Enlightenment.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 3052.*

Study of the reformist ideas which were universally disseminated during the 18th century due to the influential writings of the French philosophers especially Voltaire, Diderot, and J. Rousseau.

**FRAN4216 - Advanced Study in French.**

*Three credits. Three hours of discussion per week Prerequisites: FREN 3031-3032, 3045 OR FREN 3021-3022, 3033.*

Development of communication skills at an advanced level. The course content can vary each semester. Topics: history of the French artistic heritage.

**FRAN4217 - Feminine Writing in French Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FRAN 3033 O 3035 O 3045.*

Study of feminine writing and the situation of women writers in French literature. Analyses of the techniques and strategies deployed by women writers in order to conquer a literary space for themselves. Study of the way in which these writers' dominant discursive codes and conventionally established representations of the feminine.

**FRAN4225 - Business French.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The study and analysis of the language used in the fundamental transactions of French business.

**FRAN4235 - Language and Civilization French Film.**

*3 credits. Three hours of lecture per week Prerequisites: FRAN 4008.*

This panoramic course aims to familiarize students of French with the history of cinema in French. The course is based on the original division of the cinema into two aspects: the "verite" cinema inspired by the Lumière brothers and the "magical" cinema originating from the work of Georges Méliès. We will see how these two cinematic possibilities are opposed and/or combined through the transformations of French cinema. We will study films representative of the most prominent movements of French cinema (impressionism, surrealism, poetic realism, nouvelle vague, among others), focusing on their technical specificities and their socio-historical contexts. This course does not presuppose previous knowledge of the study of the image and will introduce the basic concepts and terms necessary for film analysis. This course will be offered in face-to-face, hybrid and online modalities.

**FRAN4795 - Terror in Modern French Literature.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FRAN 4008.*

Elective course for students that have an advanced command of French. Analyzes the themes of revolution, terror and terrorism in modern French literature. It purports to show that these contemporary issues are not only found in representative works of French literature since the French revolution, but also constitute privileged metaphors for important authors belonging to major literary movements such as romanticism, surrealism and existentialism. As a secondary goal, this course studies the debate over the significance of terrorism today.

**FRAN4997 - Teaching French As A Foreign Language.**

*One to Three credits. One to three hours of lecture and discussion per week Prerequisites: FRAN4008*

Variable theme course, which covers various aspects in teaching French as a foreign language (i. E. Methodology evolution, different methods used in the field influences of other related disciplines, applied linguistics, second and or foreign language acquisition, instructional materials and activities for the classroom, evaluation strategies, new technologies and language teaching, etc.) this course provides students basic theoretical and practical skills needed to collect create and/or adapt materials appropriate to produce one or more activities for basic French lessons, as well as to use technologies in language courses this course could be repeated up to a maximum of 6 credits under different topics. Topics: language acquisition and the evolution of language learning methods: French as a foreign language.

**FRAN4998 - Current Issues in Francophone Studies.**

*One to Three credits. Two hours of lecture and one of discussion per week Prerequisites: FRAN 4008*

Theoretical and practical course of variable credits and topics related to various aspects of the languages,

literatures and cultures of France and of the French-speaking world. the course will cover the theoretical and practical aspects of current research in the areas of literatures, linguistics or culture in French. the student may repeat the course with different topics up to a maximum of 6 credits.

**GRIE3001 - Intensive Greek I.**

*Three credits. Five hours of lecture per week.*

Foundations of Greek grammar. Readings and discussion. (c)

**GRIE3002 - Intensive Greek II.**

*Three credits. Five hours of lecture per week Prerequisites: GRIE 3001.*

Foundations of Greek grammar. Readings and discussion.

**GRIE3003 - Intensive Greek III.**

*Three credits. Three hours of lecture per week Prerequisites: GREE 3001-3002.*

Review of grammar. Advanced composition. Oral exercises. Translations. Reading from the works of Greek authors.

**GRIE3004 - Intensive Greek IV.**

*Three credits. Three hours of lecture per week Prerequisites: GRIE 3003.*

Morpho-syntactic analysis and translation, with commentary, of ancient Greek.

**GRIE3015 - Classical Greek for Research Purposes.**

*Three credits. Two hours of lecture and one of discussion per week*

Introductory course for students with research projects or interests that require a basic knowledge in classic Greek. the course will explore the fundamental notions of the target language, such as the Greek alphabet and its reaction to the Latin alphabet, as well as Greek grammar, morphology syntax and nominal; verbal morphology and syntax will be introduced. Also, students will acquire vocabulary needed to read basic texts, and use of information resources in the target language.

**GRIE3016 - Classical Greek for Research 2.**

*Three credits. Two hours of conference and one hour of discussion per week Prerequisites: GRIE 3015*

Study of classical Greek, approached via the morphosyntactic study of classical Greek, with emphasis on verbal morphosyntax. the course centers on the study of the conjugation of regular verbs, in both personal and impersonal (infinitive and participle) forms, with the primary objective of giving students access to more syntactically complex Greek texts. the study of grammatical forms is supplemented by the reading, analysis, and translation of prose fragments from philosophers and historians who best represent classical Greek, such as Plato, Herodotus, Xenophon, and Thucydides. Face-to-face, hybrid and online course

**GRIE4005 - Independent Study in Classical Greek.**

*Three credits. Three hours of independent study per week Prerequisites: GRIE 3001-3002 OR ITS EQUIVALENT.*

*AUTHORIZATION OF THE PROFESSOR, ACADEMIC ADVISOR, AND THE DIRECTOR OF THE DEPARTMENT.*

*PRESENT TO THE DIRECTOR, THE SEMESTER PREVIOUS TO TAKE THE COURSE, A PROPOSAL OF THE THEME TO BE DEVELOPED FOLLOWING THE PROCEDURES ESTABLISHED BY THE DEPARTMENT.*

Guided research in classical Greek concerning themes, authors or texts of classical Greek era according to the student's personal interests. the course can be taken a maximum of three times (9 credits) on different themes. 08-16-99

**HART3005 - Art of Ancient America Cultures.**

*Three credits.*

This course analyses the most representative artworks of the ancient American cultures, focusing its attention on the arts of Teotihuacan, Mayan and Aztec civilizations of Mesoamerica, and the Moche and Inca cultures of the andean area. However, a wider discussion on other important cultures that had an enormous influence on the artistic evolution of both areas before the European cultural colonization is included. Face-to-face, hybrid and online course. Effective 2021.

### **HART3010 - History of Decorative Arts.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Panoramic study of the western decorative arts from antiquity to the beginnings of the industrial revolution. The techniques, the origin and the historical and typological evolution of the main disciplines related to the concept of "decorative art" will be analyzed: ceramics, silverware, glass, textiles and furniture. Together with the study of the most representative works of each of these media in the various historical-artistic states (antiquity, middle age and modern age), the artistic biography of some of the most important authors within each of them will be addressed. Face-to-face, online and hybrid course.

### **HART3118 - Art in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Chronological study of the diverse Puerto Rican plastic expressions from the pre-Hispanic time to the end of the 20th century. Face to face, hybrid and online course

### **HART3136 - Latin American Art Xx Century.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.

### **HART3191 - Western Art I.**

*3 credits. Three hours of lecture per week.*

Introductory study of the most important artworks created in Europe and the ancient near east throughout prehistory, antiquity, the middle age and the artistic transformations prior to the renaissance. This course will be offered face-to-face, hybrid and online modalities.

### **HART3192 - Western Art II.**

*3 credits. Three hours of lecture per week.*

Introductory course of western art history, from the renaissance to the present times. Face-to-face, hybrid and online course

### **HART3199 - Introduction to Visual Arts.**

*Three credits. Three hours of lecture per week.*

Introduction to the formal language of the visual arts and to issues of quality. Focus the expressive potential of the formal elements and design principles, and how these relate to content in two- and three-dimensional works of art. (c) face to face, hybrid and online course

### **HART3208 - Islamic Art.**

*Three credits. Three hours of lecture per week Prerequisites: ARTE 3116.*

A historic survey of Islamic art in the near and middle east, Africa and the Iberian peninsula, from its origins (8th century) to the period of the great moguls in the 19th century. (c)

### **HART3209 - Masterpieces: Fate and Value of the Work of Art.**

*Three credits. Two hours of lecture and one of discussion per week.*

This course studies several great works of art to investigate which elements have contributed to their

designation as a "masterpiece". It is directed at all students of the Rio Piedras campus. its purpose is to offer an analytical vision of the themes related to art history, the history of film, architectural history, literature, history and aesthetics. the course will be developed through illustrated lectures, using the material and technology appropriate for a better understanding of the themes to be studied.

### **HART3215 - Medieval Art.**

*3 credits. Three hours of lecture per week.*

A study of the fundamental periods of art in the middle ages from the 4th century to the 13th century in Europe. Fulfills general education requisites in art. Since august 2015 face to face, hybrid and online course

### **HART3217 - Christian Iconography: IV-XIII Centuries.**

*3 credits. Two hours of lecture and one of discussion per week Prerequisites: ART 3215.*

Study on the origins of Christian iconography and its development, from the early Christian to the gothic. Observing also the future repercussions of these images. Face-to-face, hybrid and online course. Effective January 2021.

### **HART3219 - Ancient Near Eastern Art.**

*3 credits. Three hours of lecture per week.*

Study of the most important artworks created throughout the ancient near east, with special attention to the Mesopotamian cultures, from their origins to their decline at the end of the Persian empire.

### **HART3221 - Italian Renaissance Art I.**

*3 credits. Three hours of lecture per week.*

Chronological and thematic study of the most important artists and artworks in the Italian renaissance art from its origins in the early 14th century to the late 15th century. Face to face, hybrid and online course

### **HART3222 - Italian Renaissance Art II.**

*3 credits. Three hours pf lecture per week Prerequisites: ART 3221.*

Chronological and thematic study of the most important artists and artworks in the Italian renaissance art and the period known as mannerism throughout the 16th century. Face-to-face, hybrid and online course. Effective January 2021. Fulfills general education requisites. Since 8/2015.

### **HART3225 - Hispano Islamic Art.**

*3 credits. Three hours of lecture per week.*

The development of Islamic art forms in Spain and north Africa and their impact on Hispanic America (8th and 7th centuries). Fulfills general education requisites in arts. Since 8/2015

### **HART3228 - Ancient Egypt Art.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

Panoramic study of the most important Egyptian artworks, from its origins in the pre-dynastic period, its evolution until the end of the fourth century b. C. and its fusion with the Hellenistic styles throughout the Ptolemaic period. Fulfills general education requisites in arts. Since 8/2015 face to face, hybrid and online course

### **HART3229 - Byzantine Art.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Study of the artistic periods that define byzantine art from the 6th to the 15th century including the regions of Greece, Armenia, Georgia, Russia, and Italy. This course is directed primarily to art history students but also to all student of the Rio Piedras campus with the purpose of expanding their knowledge to do research



in the field of the arts. the course will be developed through illustrated lectures with appropriate materials and technologies for a better comprehension of the topics under study.

### **HART3236 - Modern Art.**

*3 credits. Three hours of lecture per week.*

Chronological and thematic study of the movements, personalities and works most representative of modern art, whose development is included from the French revolution until the end of the world war II. Face to face, hybrid, and online course

### **HART3237 - Contemporary Art.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Study of architecture, visual, and multidisciplinary arts since world war II. Face to face, hybrid and online course

### **HART3245 - History of Art in the United States.**

*Three credits. Two hours lecture and one-hour discussion per week.*

Study of the art in the United States from 1945 to the present. Study of the areas of architecture, sculpture, painting photography and new media, highlighting the texts, documents and debates relevant to the practice and theory of contemporary art in that country. Face-to-face, hybrid and online course effective January 2021.

### **HART3256 - Art Theory I.**

*Three credits. Two hours lecture and one-hour discussion per week Prerequisites: ART 3191, ART 3192, ART 3199.*

Study of various aspects of the theory of art, among them, the principles of the history of art as a discipline, its object of study, which is the work of art and the languages of art, highlighting the texts and the documents. Face to face, hybrid and online course

### **HART3257 - History and Theory of Artistic Practice.**

*Three credits. Two hours of lecture and one of discussion per week.*

This course specificity and thematic sequence is the study and framework of the teaching of artists in different educational contexts. This course has the purpose of teaching and forming students in its subject matter, and it is oriented, principally, but without excluding others, to the student of art history and fine arts. the course includes discussions, readings, and lectures.

### **HART3275 - Survey of European Renaissance Art.**

*3 credits. Three hours of lecture per week.*

Study of architecture, sculpture and painting in Europe and its main manifestations and artists between the 15th and 16th century. Fulfills general education requisites in arts. Since august 2015

### **HART3277 – Pre-Hispanic Art of the Antilles.**

*3 credits. Three hours of lecture per week.*

Chronological study of the most important art practices developed in the Antilles during the pre-Hispanic period. Face to face, hybrid, and online course

### **HART3305 - Chinese Art History.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week.*

This course is focused in Chinese art history and archeology, from the beginning of the chalcolithic period through the 20th century, including neighboring culture arts, mostly influenced by Indiann Buddhism. This

course is intended for art history and fine arts students, but is also open for any students, in the campus. the aim of the course is that students learn and identify most artworks in Chinese culture, through illustrated conferences and audiovisual media. the course is an option to fulfill the required component in art in general education.

### **HART3306 - Japanese Art History.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week.*

Japanese art history, based on the influences of Korean art emphasizing the religions of Japan (Shinto and Buddhism), in the Meji period and the ukiyo-e painting, concluding with the southeast Asian art. This course is intended for art history and fine arts students, but is also open for any student in the campus. the aim of the course is that students learn and identify most artworks in Japanese culture, through illustrated conferences and audiovisual media. the course is an option to fulfill the required component in art general education.

### **HART3716 - History of Photography.**

*3 credits. Three hours of lecture per week.*

History of photography as art, from its beginning to the present times, which includes analysis of techniques, language, most important movements and artists, using the methodologies of art history. Face-to-face, hybrid and online course, effective January 2021.

### **HART3905 - Performance Art.**

*Three credits. Three hours of lecture per week.*

Theoretical-historical study of the art of performance, specifically its development through the twentieth century and its role in the most significant artistic movements of modern western art and its international diffusion.

### **HART3915 - African Art.**

*Three credits. Three hours of lecture per week.*

Survey of African art from the prehistoric times to the present, giving special attention to painting, sculpture, architecture, jewelry, basketry, ceramic, and garments.

### **HART3920 - Art and Gender: the Feminine Discourse in the Visual Arts.**

*3 credits. Three hours of discussion per week.*

Comparative study of the existing relationships that exist between, class, gender, race and representation within a historical and cultural context. Explores how women represent themselves and how they have been represented through the discourse of art. the course is an option to fulfill the required component in art in general education. Face to face, hybrid and online course

### **HART3935 - Methodology of Art History.**

*Three credits. Two hours of lecture and one of discussion per week.*

Study of the methods of art history. the course is designed for art history students and for those interested in this topic. Canonical and contemporary texts on the subject matter will be discussed. the purpose of this course is to acquaint students with methodologies of art history and teach them to apply them to the study of artistic phenomena.

### **HART4001 - Debates on Contemporary Art.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: HART 3237*

The study of the most important theoretical debates that have oriented the practice of art from modernity to the present. This course is gear mainly but not excluding others, towards the student of visual arts. the study

of the contents of this course will be done by means of class discussion reading and lectures.

### **HART4002 - Debates on Contemporary Art II.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: HART 3237.*

Study of the most important debates related with the theory and thought of the avant-garde from modernity to the present. This course is mainly oriented but not excluding others, to the student of fine arts history. the study of the debates will be done by means of discussions, readings and conferences.

### **HART4003 - Debates on Contemporary Art III.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: HART3237*

The study of the most important debates dealing with the relationship between art and market. This course is principally oriented, but without excluding others, for the students of fine arts and art history. the study of the debates will be done by means of discussions, readings and conferences.

### **HART4010 - Colonial Art in Puerto Rico.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Chronological study of the artistic manifestations developed in Puerto Rico during the Spanish colonial period (16th-19th centuries). the analysis of architectural, pictorial, sculptural works, as well as silverware and other artistic media, made both in the metropolis, destined for Puerto Rico, and on the island, itself will be addressed. in addition to the study of the prevalent works, the course will focus on the artistic biography of the most representative authors of this stage, from José Campeche to the espada family, the sisters Cleto Noa and Francisco Oller y Cestero. Face-to-face, online and hybrid course.

### **HART4015 - Art and Law.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Study of the role of law and the limits imposed by the state on the figure of the "artist" and the artwork, from the late nineteenth century to the twenty first century. It will address how the law has interpreted and regulated the creation of art, its impact on the artistic production of the twentieth century ethical dilemmas and legal disputes faced by the history of art on issues such as copyright and moral rights of artists, freedom of expression, and the relation of art with various state structures, museums and the art market.

### **HART4045 - History of Ceramics in Puerto Rico.**

*Three credits. One hour of lecture, two hours of discussion per week.*

Chronological study of the origins and development of ceramics in Puerto Rico from pre-Hispanic times to the present through is most relevant works and authors. This course as an elective of the bachelor's degree of Latin American and Caribbean art history. It will be offered in face-to-face, hybrid and online modalities. Effective august 2021.

### **HART4095 - History of Print Making: Art and Communication.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

History of the art of engraving between the fifteenth century to the present and its role in the visual dissemination of ideas in tall fields of knowledge. Fulfills general education requisites in arts. Since 8/2015

### **HART4111 - Spanish Art I.**

*Three credits. Three hours of lecture per week.*

Survey of Spanish art from the Middle Ages to the renaissance.

### **HART4112 - Spanish Art II.**

*Three credits. Three hours of lecture per week.*

Study of the Spanish peninsula art from the baroque to the present.

**HART4115 - Ancient Greek Art.**

*3 credits. Three hours of lecture per week.*

Panoramic study of the most important Egyptian artworks, from its origins in the pre-dynastic period, its evolution until the end of the fourth century b. c., and its fusion with the Hellenistic styles throughout the polemic period. Fulfills general education requisites in arts. Face to face, hybrid and online course

**HART4116 - Ancient Roman Art.**

*3 credits. Three hours of lecture per week.*

Study of the most important artworks created in the ancient roman world, from its origins throughout the republican period until its decline in the late antiquity. Etruscan and Greek influences on the roman visual system will also be considered. Face-to-face hybrid and online course. Effective 01-2021. Fulfills general education requisites in arts. Since 8/2015

**HART4118 - European Baroque Art.**

*3 credits. Three hours of lecture per week Prerequisites: ARTE 3221.*

Critical study of the main concepts, artists and works in the European baroque, a style that developed from the last decade of the 16th century until the middle of the 18th century. Fulfills general education requisites in arts. Since 8/2015 face-to-face, hybrid and online course. Effective January 2021.

**HART4119 - Art Criticism.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: THEY HAVE PASSED THE APPROPRIATIONS FOR THE FIRST TWO YEARS OF THE BACHELOR OF ART. OR AUTHORIZATION OF THE DIRECTOR OF THE PROGRAM.*

This course is focused on understanding the meaning and importance of art criticism today, on knowing and making use of its different tools and on the most common methodologies for its practice. Face to face, hybrid and online course

**HART4120 - Art and Medicine.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Course of variable subject eligible for the minor concentration in medical humanities and health that, from an interdisciplinary perspective, explores the relations between art and medicine. the course establishes a content that includes a focus on Puerto Rico, the Caribbean and other cultures of the world. It will address issues such as the intersection between science and imagination empirical data and interpretation, and medicine and society, in order to develop historical, therapeutic or political views of the body and its relationship with both medicine and history of art. the course can be repeated up to a maximum of 6 credits with different study topics.

**HART4121 - the Art Market.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Study of the art market in the western world since its emergence to the present day. This elective course will analyze how the emergence of graphics and its development in the sixteenth century began a process of liberation from the creative work of the forces had influenced him: the church and the patron. the traditions that gave rise to the art market will also be studied, such as the grand tour, which created the first art galleries and the so-called old master's market. the emergence of auction houses in the 18th century will be studied, the role of institutional spaces, such as biennials, in fostering a sense of current art, and the phenomenon of the late twentieth century of the contemporary art market as an investment tool and financial speculation.

**HART4129 - Art in Puerto Rico 1945 to 1975.**

*Three credits. Two hours of lecture and one of discussion per week.*

Introduction to art created in diverse media in Puerto Rico from 1945 to 1975. This course is aimed primarily at history and studio art students but also to students of the Rio Piedras campus. its purpose is that students be able to identify the major works of art belonging to this period, learn about the creation of public institutions and the art market, and understand, the principal debates which accompanied their creation. the course will be developed through illustrated lectures, using the material and technology appropriate for comprehension of the themes studied. Face to face, hybrid and online course

**HART4137 - Colonial Painting in Latin America.**

*Three credits. One hour of lecture and two hours of discussion per week.*

Regional and thematic study of the development of painting in Latin America during the Spanish colonial period. This course counts as an elective of the bachelor's degree of Latin American and Caribbean art history. This course will be offered in face-to-face, hybrid and online modalities.

**HART4138 - Art in Puerto Rico 1976 to the Present.**

*Three credits. Two hours of lecture and one of discussion per week.*

Introduction to the art created in Puerto Rico in various media from 1976 to the present. This course is aimed primarily at art history and studio art students but also to all students of the Rio Piedras campus. its purpose is that students be able to identify the period's main works of art, and understand the debates which accompanied their creation. the course will be given with illustrated lectures using the material and technology appropriate for a better comprehension of the themes to be studied. Face-to-face, hybrid and online course. Effective January 2021.

**HART4205 - Contemporary Architecture.**

*Three credits. Three hours of lecture per week Prerequisites: ART 3116.*

Three credits. Three hours of lecture per week Prerequisites: ART 3116.

**HART4214 - History of Architecture in Puerto Rico.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Is a survey course of the architecture developed in Puerto Rico from the pre-Colombian to present times. the course offers students fundamental knowledge about the urban development of his profession of architecture in Puerto Rico. the course uses primary sources from archives and libraries and secondary sources as described in the bibliography.

**HART4215 - Travel for Art History Study.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: FOR STUDENTS OF 18 YEARS AND OLDER. TO HAVE COMPLETED TWO YEARS OF THE BACHELOR DEGREE. INTERVIEW AND AUTHORIZATION OF THE DIRECTOR.*

Summer trip for students following art history courses, but not excluding other students, in which artworks previously analyzed in classroom will be studied in situ. the trip itinerary and its visits will be conducted by an art history program professor. the course has a variable destination.

**HART4216 - History and Theory of Architecture in Latin America and the Caribbean.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

This is a panoramic course on Latin American architecture and urban development from the pre-Columbian period to present times. the course, both thematic and chronologically, analyses Latin American architecture- the Caribbean, Mexico and central America, the andean region, Brazil, and south America's southern tip- as a

framework for exploring and understanding the difference and common threads that distinguish the architecture and urban development of each region.

**HART4217 - Theory and History of the Conservation and Restoration of Architectural Heritage.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Analysis of theoretical and historical elements of both conservation and restoration of architectural heritage. the course focuses on the evolution of the concept of built heritage in the western world, on its custody and on documents for its protection, written by international agencies. It also offers a profoundly analysis of the history of architectural restoration to the present with particular attention to the Puerto Rican context, through the study of legislation and public institutions responsible for its management and conservation.

**HART4218 - Patronage and Art Collecting.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

This course is a study of patronage and collecting in art history, from antiquity to the present times, and with an emphasis on the western world. the course will discuss the importance of patrons and collectors in art production its circulation, and the relevance of taste in every historic moment. Most representative professional relations between artists, clients and promoters, and its incidence in art history will also be protagonist in this course.

**HART4227 - Medieval Illuminated Manuscripts.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

Study of the illuminated manuscripts in the Middle Ages with emphasis on their techniques, their styles and the function of the book/codex in the Middle Ages.

**HART4241 - Art History Research I.**

*3 credits. Three hours of laboratory work per week Prerequisites: ARTE 3191, ARTE 3192 AND SIX*

Principles of art history research, including techniques, methods and processes. Face to face, hybrid and online course

**HART4242 - Art History Research II.**

*3 credits. Three hours of laboratory per week Prerequisites: HART 4241.*

Processes and practice of art history research, from the early stages to writing, presentation and publication of its final results. Face to face, hybrid and online course. Prerequisite and modality is added. Since January 2020.

**HART4257 - Art of Indian I.**

*Three credits. Three hours of lecture per week.*

The artistic expressions of Indian people and its literary correlation from its origins to the Gupta period.

**HART4258 - Art in Indian II.**

*Three credits. Three hours of lecture per week Prerequisites: ART 4257.*

Artistic expressions of the Indiann people and its literary correlation from the Gupta period to the present.

**HART4268 - History and Theory of Art 1968 to the Present.**

*Three credits. Two of lecture and one hour of discussion per week Prerequisites: HART3227*

Comprehensive study of the architecture and the visual arts from May 1968 to the present. the arts are studied from a theoretical, social and political perspective. This course has the purpose of teaching and forming students in its subject matter, and it is oriented, principally, but without excluding others, to the student of art history and fine arts. the course includes discussion, readings and lectures.

**HART4281 - Spanish American Art I.**

*3 credits. Three hours of lecture per week.*

The course studies the art of Spanish America, from conquest to the eighteenth century, including architecture, painting, sculpture and prints, as well as traditional indigenous artforms. Fulfills general education requisites in arts. Since 8/2015 face to face, hybrid and online course

**HART4282 - Spanish American Art II.**

*3 credits. Three hours of lecture per week.*

Regional and thematic study of the development of Hispanic American art between 18th and 20th centuries. This course counts as an elective of the bachelor's degree of Latin American and Caribbean art history. It will be offered in face-to-face, hybrid and online modalities.

**HART4355 - History of Photography in Latin America.**

*Three credits. One hour and a half of lecture, one hour of discussion and half hour of investigation.*

History of photography as an artistic medium, from the beginning of its practice in Latin America to the present day. the course, which serves as credits for general education in art, analyzes the most important photographic movements and artists, their most relevant contributions, the languages and topics that identify this medium, and the open debates about its heterogeneous reality. This course can be offered in face-to-face, hybrid and online modalities.

**HART4905 - Museum and Art Institutions Internship.**

*Three credits. Two hours and a half of mentoring and half an hour of lecture per week Prerequisites: TO HAVE COMPLETED 12*

Encourages learning through experience for students majoring in art history. A professor from the art history department gives a theoretical introduction to the world of museums and comes in contact with museum professionals in order to secure internships for his/her students. Students may choose to become interns in one of the following areas: museum management, fundraising, education, registrar's department, curatorial office, exhibition design and/or conservation. Participating institutions may vary per semester. Students will make their choice of institution and area of expertise. the result is an immersion experience in a particular field of museum practice.

**HART4906 - Political Art in the Twentieth Century.**

*Three credits. Three hours of lecture per week.*

Study of the theory and practice of political art in the twentieth century. in its first half, early century political art movements are examined (in revolutionary Russia, pre-Nazi Germany) and significant theorists in Russia, Germany, China, and Latin America are discussed. in the second half, the impact of those theories is studied in post-war experimental art, including visual art as well as film, music, and theater. Finally, issues in Puerto Rican political art in the last four decades are discussed.

**HART4925 - National Imaginary of the Puerto Rican Artists in NYC.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Comparative and analytical study of Puerto Rican visual artist's artwork and experience in New York, focusing on those born and/or raised in the metropolis. from the "otherness" point of view, explores through plastic and digital images, how the Puerto Rican artist remembers and reconstruct our collective memory from abroad creating a new national imaginary.

**HART4999 - Independent Study-history of Arts.**

*Two to Four credits. Independent study Prerequisites: PERMISSION OF THE DIRECTOR AND THE PROFESSOR.*

Independent study performed under the supervision of a professor specialized in the student's area of interest. the course may be repeated up to a maximum of six credits.

**HART5006 - Introduction to Museum and Art Gallery Operational Principles.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: ARTE 3191 AND ARTE 3192.*

Introduction to museum and art gallery management and operational practices. Includes administrative principles and management of art collections. (c) face to face, hybrid and online course

**HART5007 - Practice in Museum and Art Gallery Operational Principles.**

*Three credits. One hour of discussion and two hours of supervised practice per week Prerequisites: ARTE 5006*

Practical application of the theoretical knowledge on museum and art gallery operational principles. Development of the technical skills required for the management of art works in museums and galleries. Face-to-face, hybrid and online course. Effective January 2021.

**HIST3005 - Prehispanica History of Puerto Rico and Antilles.**

*3 credits. Three hours of lecture per week.*

An overview of human development in prehistoric times in Puerto Rico and the Antilles. A

**HIST3006 - Introduction to Puerto Rican Historiography.**

*Three credits. Three hours of lecture per week.*

Analysis of the most important works of Puerto Rican historic literature from the sixteenth century to the present in the wider context of the history of Puerto Rico and its different historiographical perspectives.

**HIST3097 - Military History of Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Study of the military events and issues of main importance in the history of Puerto Rico, with particular attention to their role in the evolution of Puerto Rican society; as well as their interrelationship with the situation in the Caribbean and the metropolitan country.

**HIST3101 - History of Mexico I.**

*3 credits. Three hours of lecture per week.*

Mesoamerican pre-Hispanic cultures and civilizations are analyzed in order to understand the indigenous roots of the Mexican people. the processes of conquest and colonial development are studied for a more understandable approach to the socio-political formation of the country. the course ends in the discussion and debates over the issues that originated the independence movement in Mexico.

**HIST3102 - History of Mexico II.**

*3 credits. Three hours of lecture per week.*

An analysis of the national period in Mexico since independence (1810-1821) to the early xxi century. It includes civil strikes, international wars and invasions by the United States and France, the Diaz dictatorship, the 1910 revolution and the 1917 constitutions and its reforms. the course ends with discussions over the rise and fall of the pri (1925-2000), nafta, and the effects of neoliberalism and globalization.

**HIST3105 - History of Central America.**

*Three credits. Three hours of lecture per week.*

An overview of central America history. Study of the main social, economic and political events from the colonization to the present.



**HIST3111 - History of the United States.**

*Three credits. Three hours of lecture per week.*

A census of the history of the United States from the beginnings of colonization in the seventeenth century to the civil war. Social, political and cultural development will be studied in order to understand the events that led to the American revolution, the founding of the republic, the rapid growth of the nineteenth century, and the events leading to the civil war in 1861. (c) course face-to-face, hybrid and online modalities.

**HIST3112 - History of the United States II.**

*3 credits. Three hours of lecture per week.*

A census of United States history from the civil war to the present. Emphasis will be put on the industrial revolution of the nineteenth and twentieth centuries, the problems caused by this revolution for Americans and the results of social reform programs. the course will include a census of diplomatic history in the twentieth century. (c) this course will be offered face-to-face, hybrid and online modalities.

**HIST3135 - History of the United States Military Experience.**

*Three credits. Three hours of lecture per week.*

The American military experience from the perspective of military operations, socio-political considerations and diplomacy.

**HIST3145 - General History of Spain.**

*Three credits. Three hours of lecture per week.*

The formative process of the Spanish people through their socio-economic, political and cultural development. Face-to-face, online and hybrid course. Effective for January 2021.

**HIST3155 - Europe in the Nineteenth Century.**

*Three credits. Three hours of lecture per week.*

Discussion of the impact of the French revolution and the industrial revolution on European history during the nineteenth century. Analysis of social thought, economic life, diplomatic relations, the labor movement, etc. the course will not cover the history of all Europe, but will attempt to study similar problems that were present in the particular histories of European states. (c) face to face hybrid and online course

**HIST3165 - Renaissance, Reformation and the Emergence of the State.**

*3 credits. Three hours of lecture per week.*

The renaissance as threshold to the modern world in its social, political, economic and cultural aspects. the religious crisis which was initiated in the sixteenth century until the peace of Westphalia, and following this, the manifestation of the two great currents of the modern state; monarchical absolutism exemplified in France and the English model: the parliamentary system. the European intellectual revolution until the eighteenth century. (c) face to face hybrid and online course

**HIST3185 - the Medieval World.**

*Three credits. Three hours of lecture per week.*

Causes of the collapse of Mediterranean unity. the Germanic kingdoms and their development. the byzantine empire. the advent of Islam. the Carolingian empire. Feudal society. the medieval church. Commerce, cities, universities, parliaments, guilds and other medieval institutions. High medieval culture. Problems of the late Middle Ages.

**HIST3190 - the Origin of Human Societies.**

*3 credits. Three hours of lecture per week.*

A reflection on the origins of our species and of human society from the perspective of the history of

humankind, as a total and unified process. A study on the nature of its different stages, both pre-agricultural ("Paleolithic" and "Mesolithic") and agricultural ("Neolithic"), and their development up to the rise of the first states.

### **HIST3195 - the Ancient World.**

*Three credits. Three hours of lecture per week.*

Explanation and discussion of the ancient civilizing process, from the origins of man to the end of classical antiquity. the course is subdivided into the following themes: paleolithic savagery; Neolithic barbarity; first civilizations of the bronze age in alluvial valleys: Sumerian, Egypt and Indian; the expansion of bronze civilization outside of the alluvial valleys: Elam, Phoenicia, Crete, Mycenaean, Asia minor; and the principal civilizations of the iron age: Greeks, Persians, Jews, Etruscans, romans, and Carthaginians. (c) face to face hybrid and online course.

### **HIST3205 - Problems of the Contemporary World.**

*3 credits. Three hours of lecture per week.*

The objective of the course is to discuss the main problems and conflicts of world history from the twentieth century to the present. During the semester the student will have the opportunity to discuss in depth the development of the different historical processes of the period, emphasizing the interpretation of the historical processes that inform our present. the course is not a general study one, but a thematic course, based on the discussion of readings and basic problems to understand the development of the diverse global and contemporary problems, such as: extreme violence, globalization, nationalism, and the national state, wars during the xx and xxi centuries, race and ethnicity, gender and sexuality, consumer culture, media and images, etc. the course does not have specific geographic or cultural delimitations and will offer an initial opportunity for the students to understand a series of events and processes, individually and comparatively, around the world. Face-to-face, hybrid and online course

### **HIST3211 - Spanish American History.**

*Three credits. Three hours of lecture per week.*

The course constitutes an approach to the Hispanic America and colonial world especially the areas conquered by Spain. A vision of the geographic and cultural environment of pre-Columbian American will be provided as a point of departure for the course. Major emphasis will be given to the process of discovery colonization and conquest, to be followed by an analysis of colonial society and institutions up to the eighteenth century. (c) face to face hybrid and online course.

### **HIST3212 - Spanish American History II.**

*3 credits. Three hours of lecture per week.*

General vision of the historical development of Hispanic America n from the beginning of the nineteenth century up to the present. Special importance will be given to the emancipation stage in the first third of the past century, as well as the comparative study of the historic process of different independent state until present times in conjunction with their economic and socio-cultural evolution and their relations with the outside world. (c) face to face hybrid and online course

### **HIST3236 - Readings Seminar in the History of Spain, XVI Century to Present.**

*3 credits. Three hours of seminar per week.*

Examination of topics about the history of Spain in modern and contemporary times from various points of view. Students may take this course up to a maximum of three times with different themes. New descriptions since January 2010

### **HIST3241 - History of Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Analysis of the historical evolution of Puerto Rico from its beginning to the present, without disregarding its pre-Columbian antecedents. Historical, political, economic, social and cultural themes will be covered. (c) face to face hybrid and online course.

### **HIST3242 - History of Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241.*

Analysis of the historical evolution of Puerto Rico from its beginning to the present, without disregarding its pre-Columbian antecedents. Historical, political, economic, social and cultural themes will be covered. (c) this course will be offered face-to-face, hybrid and online modalities.

### **HIST3245 - History of Puerto Rico - Compendium.**

*Three credits. Three hours of lecture per week.*

The objective of this course is to provide the student with a general vision of our history up to and including the twentieth century. the course covers pre-Columbian cultures and analysis of the Spanish period in the area of politics, population, military aspects and economics from the beginning to the present. (c)

### **HIST3255 - Topics on Native American History I.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

### **HIST3256 - Topics on Native American History II.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

### **HIST3265 - Arabic World and its Culture.**

*Three credits. Three hours of lecture per week.*

Given the economic and political importance of the Arabic countries in the past and in the present, this course presents a possible characterization of the Islam and an overview of the origin and cultural-historical development of the Arabic speaking countries. It also presents their relationship with the west and their importance in the modern world. Face-to-face, hybrid and online course

### **HIST3305 - History of Science and Technology.**

*3 credits. Three hours of lectures and discussion per week.*

A study of the concepts of science and technology and their relationship with society and history, emphasizing the evolution of their perception in different cultures, and their link with historiography and the construction of categories such as identity, race, nation and gender.

### **HIST4006 - Contemporary United States Problems.**

*Three credits. Three hours of lecture and discussion per week.*

Elective course that analyzes the contemporary history of us from 1945 to present. Included: cold war, civil rights, feminism movement, emergence of the new left, the great society welfare programs, oil crisis of the 1970s and its impact in economy, presidencies of Nixon, ford and carter, conservative tendencies of Reagan administration, cold war, Persian Gulf crisis, the 2000 elections, and the impact of the terrorist attacks of sept 11, 2001. Face-to-face, hybrid and online course.

### **HIST4007 - the Atlantic Revolution (1765-1830).**

*Three credits. Three hours of seminar per week.*

The course compares the ideologies, slogans, symbols, emblems and representations of the revolution of the

thirteen north American colonies, the French revolution, the Haitian revolution, the European revolution against French power (Italy, Prussia, Spain, among others) and the Hispanic America revolutions.

### **HIST4008 - History and Space.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Study of the different approaches developed recently by historians, anthropologists, geographers and urban planners to study space as a main coordinate in the study of society, culture and identity in different parts of the world. the course's aim is that the students not only understand the theories and uses of space as a main coordinate for the study of history and society, but that they can also develop them in relation to the geographical area and time of their choosing. the course will pay special attention to the role and uses of space in the construction of collective memory, race, nation, culture and politics. the course is designed for students of history of the Americas, European history and from other departments. Face-to-face, online and hybrid course. Effective date January 2021.

### **HIST4009 - History and Anthropology.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

The course studies the interplays between the fields of anthropology and history, the theories and research methodologies that have resulted from these dialogues, and the possibilities these bring to the development of student's projects. the course will focus particularly on the analysis of specific examples from scholarship developed around the globe. in that sense, the course is oriented towards students majoring in the areas of history of the Americas, European history, as well as anthropology.

### **HIST4015 - Literature as a Source in Historical Research.**

*Three credits. Three hours of lecture per week.*

Seminar course to develop skills in using literary sources in historical research and current historical methods in literary research. Face-to-face, hybrid and online course

### **HIST4016 - Nationalism, Nation and German National State (XIX and XX Centuries).**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Study of political, social and cultural currents of thought which enabled or blocked the consolidation of German territories into political entities based on the model of the 19th-century national state.

### **HIST4017 - Reading Seminar: Themes of the History of the Caribbean.**

*3 credits. Three hours of seminar per week.*

Seminar of selected readings and study of particular themes related to the history of the Caribbean. the themes comprise particular aspects of the political cultural and socioeconomic development of the diverse countries of the region. in some cases, comparative themes related to aspects of the Caribbean development may be dealt with. Students may take this course up to a maximum of three occasions, without repeating themes therein.

### **HIST4025 - Readings Seminar: Themes in the History of Europe.**

*3 credits. Three hours seminar per week.*

Study of selected readings related to the history of Europe. Comprise particular aspects such as religion, family, culture, industrialization, wars, politics and the consolidation of the Europe community. Students may take this course up to a maximum of three times without repeating themes therein.

### **HIST4026 - Readings Seminar in History of the Americas.**

*Three to Nine credits. Three hours of seminar per week.*

This seminar includes discussion and analysis of a series of readings on a topic of current historiographical

interest in the field of history of the Americas. It examines the scope and limits of these new approaches and assesses the ways in which they have transformed traditional understandings of the subject matter. Finally, it explores possible research topics that emerge from these discussions. the specific thematic focus of the course will change each semester. the student can take the course up to three times with different topics.

### **HIST4027 - Readings Seminar in Cultural History.**

*Three credits. Three hours of seminar per week,*

This seminar includes the discussion and analysis of a series of readings oriented theoretically and methodologically by the proposals and approaches of cultural history. the thematic focus that will direct the course allows for the explorations and differentiation of the concepts and particular strategies that have been used by historians and other academicians to elaborate various narratives of cultural history. Among them, it examines the dispute, the appropriation and the negotiation regarding different representations and the practices linked to them. It includes topics such as: gender, body, sexuality, consumer culture, globalization, popular cultures, visual culture, the construction of national identity, crime, criminality, racial notions and others the specific thematic focus of the course will change each semester. the student can take the course up to three times with different topics.

### **HIST4028 - Seminar: Readings on the Pacific Ocean.**

*Three credits. Three hours of seminar per week Prerequisites: TO BE AN UNDERGRADUATE STUDENT.*

Comparative study of the peoples of the Pacific Ocean, topics that can be discussed include geography, archaeology, ethnology, customs, religion, economics exploration, colonization, military conflicts, post-war era, national movements nuclear tests, and ecology, among others. the emphasis can be changed according to the selection of archipelagoes, islands and the problems to be emphasized. the student can take the course up to three times with different topics. Themes: comparative study of the European impact on cultures from the Pacific Ocean.

### **HIST4046 - History and Epic Poetry.**

*Three credits. Three hours of lecture and discussion per week.*

A comparative study of the stages in the formation of social values in the west using epic poems as historical sources.

### **HIST4057 - Readings Seminar: Themes of the History of the United States.**

*3 credits. Three hours of seminar per week.*

Course based on selected readings of particular themes related to the history of the United States, from native north America until today. the themes comprise: colonization, independence revolution, territorial expansion, slavery and civil war, immigrations, world wars, industrialization and urbanization, ethnic minorities, political parties, transformations of the federal state. Students may take this course up to a maximum of three occasions with different themes.

### **HIST4080 - Introduction to the History of the Family in Colonial Latin America.**

*Three credits. Three hours of lecture per week.*

A general view of the history of the family in colonial Latin America and the mentality of the period. Brief presentation of different features pertaining to the family with special emphasis on Mexico.

### **HIST4085 - History of Contemporary Latin America 1850 to the Present.**

*3 credits. Three hours of lecture per week Prerequisites: HIST 3212.*

Analysis of the historical roots of contemporary problems in Latin America including: miscegenation, economic underdevelopment, political conditions, the position of American countries in the international political system and the development of a conscious sense of being American. the course will be based on

the examination and analysis of contemporary texts about each of the problems mentioned.

### **HIST4095 - History of the Caribbean.**

*Three credits. Three hours of lecture per week.*

The colonial formation of Haiti will serve as an introduction to the course. the revolution and its consequences will be studied to understand political and socio-economic problems. A parallel explanation of the Dominican Republic will be given. the second part is devoted to Cuba. Particular attention will be paid to the sugar economy, the republic, and the revolutionary process up to the present. (c)

### **HIST4097 - Cuban History.**

*Three credits. Three hours of lecture per week.*

A survey of Cuban history from its origins to the present. (c) face to face hybrid and online course

### **HIST4099 - Dominican Social History.**

*Three credits. Three hours of lecture per week.*

An overall vision of Dominican history. the process of economic, political and social development from colonization to the middle of the 20th century is presented.

### **HIST4105 - Cultural History of Mexico.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Panoramic view of the development of the national culture of Mexico beginning with its pre-Hispanic roots, the creation of regional consciousness in the reformation and the revolution. the course is based on a detailed analysis of representative texts for each period culminating in an analysis of Mexican identity and contemporary thought of the country.

### **HIST4115 - Colonial History of United States (1607-1776).**

*3 credits. Three hours of lecture per week.*

Covers the beginnings and the evolution of the thirteen colonies that eventually became the United States of America. Special emphasis on the factors which gave rise to the confrontation with England and the declaration of independence.

### **HIST4118 - United States Business History, 1859-1990.**

*Three credits. Three hours of lecture per week.*

An analysis of the commercial and social history of the United States, which has determined its economic, military and political might from 1850 to 1990. A study of the industrial and commercial development of the United States and its influence over the nation's domestic and foreign policies.

### **HIST4145 - History of Japan.**

*3 credits. Three hours of lecture per week.*

To place the student within the confines of ancient and medieval Japan so that he or she will understand the historical, social, cultural and economic ideas that sustain modern and contemporary Japan, with its adaptation to new changes, accentuating the national and international position that its present conditions demand. Face-to-face, hybrid and online course

### **HIST4155 - Problems in Contemporary Spain.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

The political, economic, social and cultural problems of Spanish society during the last century of its history up to the present. the conflict-ridden transition from the traditional structure of a rural agrarian society to an urban industrial society will be analyzed. the analysis of this process will be framed in the context of

capitalistic growth conditioned by external dependence. Special emphasis will be given to the development of social movements and the awakening of nationalities.

### **HIST4165 - History of Brazil.**

*3 credits. Three hours of lecture per week.*

The course begins with the process of discovery and colonization. the cultural formation of the country and its economic and political development are analyzed through the colonial period, the empire and the contemporary era. the socio-political differences between Brazil and the rest of Latin American receive special attention. New description since January 2012. Eliminates prerequisites

### **HIST4171 - History of Russia to the Eighteenth Century.**

*3 credits. Three hours of lecture and discussion per week.*

Introductory course on the history of Russia from the beginning to the eighteenth century. Includes discussion of politics, economics, culture and social themes. the course is divided into the following stages: pre-Kievan Russia, the state of Kiev, Mongol invasions, Muscovy and imperial Russia, to Catherine the great. Includes analysis of primary sources and readings.

### **HIST4172 - History of Russia Since the Nineteenth Century.**

*3 credits. Three hours of lecture and discussion per week.*

Introductory course on the history of Russia since the reign of Alexander I to present, from a political and economic standpoint. Includes analysis of primary sources and readings of well-known researchers to discuss local affairs as well as international relations. Emphasis can be given to the nineteenth or twentieth century, according to the readings selected.

### **HIST4175 - Political and Economic History of Russia.**

*Three credits. Three hours of lecture per week.*

An analysis of the political and economic evolution of Russia from the ascending of Kiev to the present, emphasizing the role of the peasantry, the industrial revolution, soviet institutions and international relations.

### **HIST4176 - Cultural History of Russia Since the Nineteenth Century.**

*3 credits. Three hours of lecture and discussion per week.*

Introductory course on the cultural history of Russia since the nineteenth century. Analysis of the writings of the Russian thinkers in literature, politics and economics, as well as the appreciation of works of art and music. It also includes the presentation of some Russian traditions, to analyze topics such as nationalism and popular culture, as well as the official policies towards the cultural manifestations. Face-to-face, online and hybrid course. Effective for January 2021.

### **HIST4177 - History of Eastern Europe.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: AUTHORIZATION OF DIRECTOR.*

The course begins with a panoramic study of the history of eastern Europe from the beginning to the first world war and continues with a more detailed account of the twentieth century. It includes an analysis of the relations of Russia with Germany, Poland, Czech Republic, Slovakia, Hungary, Bulgaria, Albania, Rumania, the former Yugoslavia (Slovenia, Croatia, Bosnia, Serbia, Montenegro, Kosovo and Macedonia) and the Baltic republics (Estonia, Latvia and Lithuania). Face-to-face, online and hybrid course. Effective for January 2021

### **HIST4185 - Civilizations of Asia.**

*3 credits. Three hours of lecture per week.*

The course will cover the beginnings of the main center of Asiatic civilization in Mesopotamia, Indian and China, as well as the historic development of the politic-economic system and the social and religious institutions until the xvii century. It will also include the extension of the mentioned cultures to other areas of Asia, such as the near east, southeast Asia, Korea and Japan. Emphasis can be given to one civilization in particular, so that more specific topics can be presented.

### **HIST4186 - Impact of Western Imperialism in Asia.**

*3 credits. Three hours of lecture per week.*

The impact of commercial activities and European political dominance on traditional Asiatic cultures from 1650 to the present. the rise of new elites and nationalist movements in China, Japan, Indian, and southeast Asia.

### **HIST4187 - Contemporary Problems in Asia.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

The key problem that the new nations of Asia have confronted from the second world war to the present. the efforts of Asian nations to achieve economic development and political unity. the internal struggles to determine their orientation toward the problem of social change and political ideology. Face-to-face, online and hybrid course. Effective for January 2021.

### **HIST4188 - History of Traditional Japan.**

*Three credits. Three hours of lecture per week.*

Introduction to the history of Japan since the prehistoric period to the 19th century when modernization began.

### **HIST4205 - Roman Empire and Christians Movements I-vi Centuries.**

*3 credits. Three hours of lecture per week.*

Interrelationship between roman empire and the Christian community, Greco-Roman culture and early Christianity.

### **HIST4207 - History of Classical Greece.**

*Three credits. Three hours of lecture per week.*

An examination of the historical context in which classical Greek culture flourished. (c)

### **HIST4211 - African History I.**

*Three credits. Three hours of discussion per week.*

General history of Africa from its origins until the end of the slave trade in the 1870's. Face-to-face, hybrid and online course 19-08-96

### **HIST4212 - African History II.**

*Three credits. Three hours of discussion per week.*

A historical survey of Africa from the colonial partition of the continent until post-independence today. Face-to-face, online and hybrid course. Effective date January 2021. 19-08-96

### **HIST4225 - Theory of History.**

*Three credits. Three hours of lecture per week.*

The purpose of this course is to become conscious of the task of the historian and researcher. Deals with all the most important aspects of historical analysis, such as the relations of causality, the laws of history and their predictive character, chronological and explanatory history, etc. the ways in which the principal modern historiographical schools have dealt with these problems will also be studied. At the same time in order to



develop a theory of research and find out the utility of the discipline, the students will carry out an original research project with primary sources at the general archive of Puerto Rico and the Puerto Rican collection.  
(c) face to face hybrid and online course

### **HIST4226 - Methodology of Historical Research.**

*3 credits. Three hours of lecture per week Prerequisites: HIST 4225.*

Emphasis will fall upon discussion of the methodology of the principal sciences auxiliary to history: demography, statistics, prosody, economics, etc. Moreover, we will study the principal structures of an historical monograph and its mechanical aspects such as bibliography, footnotes, quotations, etc. As in the course, theory of history, students will do a research project with primary sources. Face-to-face, hybrid and online course

### **HIST4227 - Research Seminar: History of the America.**

*Three credits. Three hours of seminar per week Prerequisites: HIST 4226.*

The relationship between the epistemological foundations and the methodological postulates that orient the ways of doing history within the areas of family, race, and sexuality in colonial Hispanic America are studied. the possibilities and limitations of the primary sources available for research of these themes as well as the general challenges of historical research are discussed and analyzed. the student must produce a research paper about a theme related to family, race, or sexuality in colonial Hispanic America. This paper must be based on primary and secondary sources. the student can take the course up to three times with different topics. Theme: history and transculturation in the migratory movements of Latin America and the Caribbean. P. H. and online. Effective for January 2021.

### **HIST4236 - Research Seminar: History of Europe.**

*Three credits. Three hours of seminar per week Prerequisites: HIST 4226.*

The course studies the relationship between the epistemological foundations and the methodological postulates that orient the ways of doing history within the specific area of the history of Europe. It discusses and analyzes the possibilities and limitations of the available documents for research within this field of studies, as well as the general challenges of historical research. the course will elaborate the discussion of these aspects in the context of a specific thematic focus that will change each semester. the student must pre- pare a research paper related to the topic that defines the course each semester. the paper must be based on primary and secondary sources. the student can take this course up to three times with different topics. Theme: modernity, future and futurism. P. H. and online. Effective January 2021.

### **HIST4240 - History of Public Health.**

*3 credits. Three hours of lecture and discussion per week.*

Examination of the historical development of public responsibility of sanitation maintenance, and the prevention and management of diseases during the xviii and xxi centuries. Some of the topics, covered are the concepts and construction of health and disease, the role of disease during public health formation, the emergence of a public health infrastructure the changes in knowledge and practice of science, the social, cultural and political impact on public health, and criticism in the discipline itself. the course omits a detailed examination of public health in antiquity and the middle age, but makes reference to them. A thematically structure and chronological order is adopted for comparisons across centuries and among various parts of the world.

### **HIST4245 - History of Puerto Rico, 20th Century to the Present.**

*3 credits. Three hours of lecture per week Prerequisites: HIST3241-3242 OR HIST3245.*

The course begins with the socio-economic situation of the island in 1899 and the formation of political parties and the labor movement. the political evolution of the country is analyzed through the different

governors and legislative majorities. Social, cultural and political changes during the twentieth century up to the present receive careful analysis.

#### **HIST4325 - Independent Study in History.**

*Three credits. Three hours of independent per week Prerequisites: HIST 4225-4226. AUTHORIZATION OF THE PROFESSOR OF THE COURSE, ACADEMIC ADVISER AND DIRECTOR OF THE HISTORY DEPARTMENT. CO-REQUISITES*

A research course for history major students on themes, theoretical issues or specific problems of individual interest in the field of history. the course may be taken three times (9 credits) under different titles. Interdisciplinary perspectives will be promoted.

#### **HIST4327 - History Major Reading Seminary.**

*Three credits. Three hours of seminar per week Prerequisites: HIST 4225, HIST 4226.*

Reading's seminar to complete and perfect the theoretical, historiographic and practical training of the history major; expose him or her to the critical analysis proper to the discipline, to contemporary trends and currents in it, as well as to the tangents and reciprocal influences with and from other disciplines, both humanistic and of other human sciences. A topic will be selected around which to center the reading in such a way as to become familiar with the literature and serve as the basis for further research. This course will be offered in face-to-face, hybrid and online modalities.

#### **HIST4346 - Readings Seminar: The Nationality Debate in Puerto Rico.**

*3 credits. Three hours of seminar per week.*

Seminar with a critical approach to readings about ethnicity, nationality, nationalism, national identity and their relationships to other variables such as gender, race, sexuality, social class and sovereignty, all applied to the historical case of Puerto Rico. Face-to-face, hybrid and online course

#### **HIST4355 - Afroantillian Societies.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Introduction to the origins and development of afroantillian societies.

#### **HIST4381 - England: Society and Culture Eleventh to Eighteenth Centuries.**

*Three credits. Three hours of lecture per week.*

The Norman conquest and its impact; Anglo-French relations and their influence upon English constitutional history; problems of English medieval society; Elizabethan society; the origins and development of the English revolution, the Hanoverian government, the agricultural revolution of the eighteenth century, the first English empire and the impact of its dismantling; beginnings of the English industrial revolution.

#### **HIST4391 - History of Puerto Rico Readings Seminar I.**

*3 credits. Three hours of lecture per week*

Seminar on selected readings on the historical roots of determined aspects of the political, socioeconomic and cultural development of Puerto Rico. in some cases, comparative themes may be dealt with that relate aspects of the historical development of Puerto Rico with other societies in the Caribbean or Latin America. Students may take this course up to a maximum of three occasions with different themes.

#### **HIST4392 - History of Puerto Rico Readings Seminar II.**

*3 credits. Three hours of lecture per week*

Seminar on selected readings on the historical roots of determined aspects of the political, socioeconomic and cultural development of Puerto Rico. in some cases, comparative themes may be dealt with that relate aspects of the historical development of Puerto Rico with other societies in the Caribbean or Latin America.

**HIST4990 - Introduction to the Historical Studies Trip.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE PROFESSOR AND/OR THE DIRECTOR OF DEPARTMENT*

Preliminary course to the historical studies trip in which the student will become acquainted with the history and culture of the foreign countries to be visited.

**HIST4995 - Historians' Study Trip.**

*One to Three credits. Three hours of discussion per week and visits to historic sites Prerequisites: HIST 4990 OR PERMISSION OF THE PROFESSOR AND/OR THE DIRECTOR.*

Study trip to become acquainted with the history and culture of foreign countries.

**HIST4999 - History Major Research Seminar.**

*Three credits. Three hours of draft conclusion (capstone) Prerequisites: HIST 4225, HIST 4226. BE A STUDENT OF THE CONCENTRATION IN HISTORY OR CONCENT OF THE DIRECTOR OF THE DEPARTMENT.*

Research capstone seminar consisting of the writing a monograph as a research exercise that will require, refine and confirm the capacity of integration of knowledge and research skills of the students acquired throughout their baccalaureate education. This course will be offered in face- to-face, hybrid and online modalities.

**INGL3001 - British Literature Through Neo-classicism.**

*Three credits. Three hours of lecture per week.*

Representative authors and major literary trends from the beginnings of English literature of the middle of the eighteenth century. Face-to-face, hybrid and online course

**INGL3002 - British Literature from Romanticism to the Present.**

*Three credits. Three hours of lecture per week.*

Representative authors and major literary trends from the end of the eighteenth century to the present. (c) this course will be offered face-to-face, hybrid and online modalities.

**INGL3014 - Fundamentals of English Grammar for Level 3 Students-II.**

*Three credits. Three hours of discussion per week Prerequisites: ENGL 3003-3004 OR 3101-3102, AND HAVE PLACED LEVEL 3 ON THE HUMANITIES ENGLISH PLACEMENT TEST. ENGL 3013-FUNDAMENTALS OF ENGLISH GRAMMAR FOR LEVEL 3 STUDENTS-I.*

The second part of a 2-semester English grammar course for students who have placed level 3 on the hept. Within a communicative setting, students analyze grammatical forms in natural language and put these into action in their own speech and writing. Explicit knowledge of grammatical form and function will help level 3 students to incorporate these structures into their own developing grammatical system when psycholinguistically ready.

**INGL3016 - Health Communication.**

*Three credits. One hour of lecture and two hours discussion per week Prerequisites: LEVEL 4 HIGHER ON THE ENGLISH PLACEMENT TEST OR ADVANCED PLACEMENT IN ENGLISH.*

Review of theory and research in human communication in a healthcare context including interaction between parties and providers; communication in health care organizations; healthcare campaigns;; information technologies in health communication; communication in support systems for the elderly, disabled, sick and terminally ill; communication training for health care professionals; health ethics; mass media health images; how gender, race, age, ethnicity and language influence health communication; and cultural meanings of health and illness. Emphasis is on the nature of the communication processes that

influence and/or are influenced by health and healthcare contexts. Face-to-face, online and hybrid course. Effective January 2021.

**INGL3017 - Language in Science Fiction and Fantasy.**

*Three credits. Three hours of lecture and discussion per week.*

This interdisciplinary course is dedicated to the exploration of language and linguistics in science fiction/fantasy (sff) literature, including language as a determiner of worldview (Whorfian theory), invented languages, and language as a literary device in the genre of sff. the course will utilize novels, short stories, television programs, and movies to explore some of the basic foundations of speculative literature and linguistics.

**INGL3031 - Developing Functions of Oral English-level One Part I.**

*3 credits. Three hours of discussion and one hour of laboratory per week Prerequisites: INGL 3003-3004 OR LEVEL I ON DEPARTMENT PLACEMENT TEST.*

Vocabulary, social formulas, pronunciation and grammatical structures needed to develop, within an interactional context, linguistic functions of oral English at a basic level. Additional practice via the language laboratory.

**INGL3032 - Developing Functions of Oral English-level One Part II.**

*3 credits. Three hours of discussion and one hour of laboratory per week Prerequisites: INGL 3031.*

Vocabulary, social formulas, pronunciation and grammatical structures needed to develop, within an interactional context, linguistic functions of oral English at a basic level. Additional practice via the language laboratory.

**INGL3036 - Literature and the Healing Arts: A Cross-cultural Perspective.**

*3 credits.*

An interdisciplinary course that examines essays, short stories, poetry, plays, novels, film and medical writings that address, from several cultural perspectives, the relationship between literature, the human body in pain, social meanings of illness, and the healing arts.

**INGL3037 - the Role of the Literary Magazine in Contemporary Literary Production.**

*3 credits. One hour and half lecture and one hour and half of discussion per week.*

An interdisciplinary course that examines the role that the literary magazine plays in the production of contemporary literature. the course surveys the history of the literary magazine during the 20th and 21st centuries. the literature of the most influential professional literary journals and university student literary magazines in north America, the Caribbean, Latin America, Britain, and other global regions will be studied. in addition to examining contemporary literary trends, the course analyzes literary standards, editing techniques, and the aesthetics of magazine layout and graphic design. the final course project is the production of a volume of the multilingual student literary magazine tongues. Face-to-face, hybrid and online course. Effective January 2021.

**INGL3041 - Developing Functions of Oral English-level Two Part I.**

*3 credits. Three hours of discussion and one hour of laboratory per week Prerequisites: INGL 3101-3102, INGL 3031-3032 OR LEVEL 2 ON DEPARTMENT PLACEMENT TEST.*

Vocabulary, idioms, pronunciation and grammatical structures needed to develop, within an interactional context, linguistic functions of oral English at a high-basic level. Additional practice via the language laboratory.

**INGL3042 - Developing Functions of Oral English-level Two Part II.**

*3 credits. Three hours of discussion and one hour of laboratory per week Prerequisites: ENGL 3041.*  
Vocabulary, idioms, pronunciation and grammatical structures needed to develop, within an interactional context, linguistic functions of oral English at a high-basic level. Additional practice via language laboratory.

### **INGL3045 - Literature and Ecology.**

*3 credits. One hour and half lecture and one hour and half discussion per week.*

An interdisciplinary course that examines essays, short stories, novels, and films that address, from a variety of perspectives, the human relationship to the natural, non-human world during the contemporary era of planetary change, globalization, and increasing commercial and technological dependency. Face-to-face, hybrid and online course

### **INGL3051 - Developing Functions of Oral English-level Three Part I.**

*3 credits. Three hours of discussion per week Prerequisites: INGL 3101-3102 OR LEVEL 3 ON DEPARTMENT PLACEMENT TEST; OR SUCCESSFUL COMPLETION ENGL 3041-3042. NOTE*

Vocabulary, idioms, pronunciation and grammar needed to develop, within an interactional context, linguistic functions of oral English at a low- intermediate level. Additional practice via the language laboratory. Face-to-face, hybrid and online course

### **INGL3052 - Developing Functions of Oral English-level Three Part II.**

*3 credits. Three hours of discussion and one hour of laboratory per week Prerequisites: ENGL 3051.*

Vocabulary, idioms, pronunciation and grammar needed to develop, within an interactional context, linguistic functions of oral English at a low- intermediate level. Additional practice via the language laboratory. Face-to-face, online and hybrid course. Effective January 2021.

### **INGL3061 - Oral and Written English for Public Communication.**

*Three credits. Three hours of lecture and one of laboratory work per week Prerequisites: ONE YEAR COURSE IN BASIC ENGLISH (FIRST LEVEL).*

Offered to a limited number of students of public communication. Teach students to speak and write clearly and effectively, utilizing an oral and written communication approach and a program of laboratory experiences.

### **INGL3062 - Oral and Written English for Public Communication.**

*Three credits. Three hours of lecture and one of laboratory work per week Prerequisites: ONE YEAR COURSE IN BASIC ENGLISH (FIRST LEVEL) AND ENGL 3061.*

Offered to a limited number of students of public communication. Teach students to speak and write clearly and effectively, utilizing an oral and written communication approach and a program of laboratory experiences.

### **INGL3065 - Intercultural Communication.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3101-3102.*

Theory and practice as a means of having students become more effective intercultural communicators. Intercultural perception, language nonverbal elements, values, social organizations and world view. Comparisons will be made to show how cultural differences in these areas affect the intercultural communication process. (c) face to face hybrid and online course

### **INGL3071 - Developing Functions of Oral English-level Four Part I.**

*3 credits. Three hours of discussion and one hour of laboratory per week Prerequisites: ENGL 3101-3102 AND FOUR LEVEL PLACEMENT TEST. STUDENTS WHO TOOK ENGL 3103-3104 WILL NOT BE ADMITTED.*

Vocabulary, idioms, pronunciation and grammatical structures needed to develop, within an interactional

context, linguistic functions of oral English at a high-intermediate level. Additional practice via the language laboratory. Face-to-face, hybrid and online course

### **INGL3072 - Developing Functions of Oral English-level Four Part II.**

*3 credits. Three hours of discussion and one hour of laboratory per week Prerequisites: ENGL 3071.*

Vocabulary, idioms, pronunciation and grammatical structures needed to develop, within an interactional context, linguistic functions of oral English at a high-intermediate level. Additional practice via the language laboratory. Face-to-face, hybrid and online course.

### **INGL3081 - Acquiring English Through Literature I.**

*Three credits. One hour a half of lecture and two hours of discussion per week Prerequisites: INGL 3003-3004 OR 3101-3102, AND LEVELS ONE OR TWO ON THE ENGLISH HUMANITIES PLACEMENT TEST.*

An introductory-level course that focuses on English language acquisition through the study and critical analysis of literary works. Emphasis is placed on the grammatical, syntactical, and aesthetic use of the language as well as on the analysis of structural components in different literary genres.

### **INGL3083 - Advocacy Journalism in the United States.**

*Three credits. Three hours of seminar per week.*

The study and practice of writing for advocacy, from letters to corporations' politicians and editors, to articles and columns, culminating in a final research project and column about a current local issue. Students will publish their best work on the internet. the course will examine journalistic coverage of current events and social causes from broad spectrum of opinions.

### **INGL3107 - Language and Gender.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3103-3104, OR ENGL 3011-3012, OR LEVEL 5 ON ENGLISH DEPARTMENT PLACEMENT TEST, OR ADVANCED PLACEMENT IN ENGLISH.*

Introduction to the study of gender-based differences in language use. of interest to students of linguistics, communication, translation, literature, and education.

### **INGL3108 - the Literature of the American Frontiers.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL. 3103-3104, OR ENGL.3011-3012, OR LEVEL 5 ON ENGLISH DEPARTMENT PLACEMENT TEST, OR ADVANCED PLACEMENT IN ENGLISH.*

The American frontiers in literature from the earliest European settlement to the present, emphasizing the relationship between frontier ideology, native cultures, and national development in the new world.

### **INGL3109 - Personal Identity: The Literature of Growing Up.**

*3 credits. Three hours of lecture per week.*

Study of the theme of growing up and initiation into life. Readings will be in fiction which deals with the varying ways in which young men and women acquire identity and maturity. Course face-to-face, hybrid and online modalities.

### **INGL3125 - Communication and Popular Culture.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Examination of the relationship between communication and the popular culture. Scientific, field research, and critical methods are employed to study the ways in which communication creates, mediates, and controls cultural change and stability.

### **INGL3126 - Science Fiction.**

*Three credits. Three hours of lecture per week Prerequisites: FIRST YEAR ENGLISH.*

A study of science fiction from h. G. Wells to now, emphasizing its characteristic literary techniques and its treatment of social problems and the effects of technology. Face-to-face, hybrid and online course. Effective January 2021.

### **INGL3128 - Literature and Fantasy.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3101-3102 AND COMMAND OF THE ENGLISH LANGUAGE FOR CLASS DISCUSSION.*

A study of the representation of the fantastic in literature. Course face-to-face, hybrid and online modalities.

### **INGL3130 - Motherhood in Literature.**

*Three credits. One hour of lecture, one hour of discussion and one hour of investigation per week*

*Prerequisites: INGL 3101, INGL 3102, INGL 3103, INGL 3104, INGL 3123, INGL 3124, INGL 3011, INGL 3012.*

This course is an option for completing the literature requirement of the general education component. the course will introduce students to the diverse representation of motherhood in literature and provide opportunities to examine motherhood through literary inquiry. in a variety of texts, students will explore motherhood in different constructs by discussing motherhood as metaphor and maternal ideology. Students will also interrogate various assumptions about the depiction of motherhood in literature, such as women's "natural" propensity or ability to mother and the ideal of the "good mother". Critical reading writing, and thinking will be key components of this course. Primary readings will be supplemented by a number of critical articles that are chosen to further deepen students 'understanding and exploration of these issues.

### **INGL3156 - Literature and Contemporary Issues in Caribbean Development.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week.*

An interdisciplinary introductory course that examines essays, short stories, novels, plays, and films that address, from a variety of perspectives, contemporary issues in Caribbean economic and cultural development. It is an option to fulfill the literature requirement of the general education component. Face-to-face, online and hybrid course. Effective January 2021.

### **INGL3165 - Shakespeare in Performance.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

A study of Shakespeare and the Shakespearean text from a performance perspective, with readings and scene work by students. Designed for non-literature majors; of special interest to drama, education, and communications students. Face-to-face, online and hybrid course. Effective January 2021.

### **INGL3175 - Poetry Writing.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: One of the following:*

The intensive study of techniques of poetry writing. This course can be repeated up to two times (six credits). 03-14-03

### **INGL3190 - Organizational Communication.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

Study and practice of communication in various organizational settings.

### **INGL3191 - Introduction to Speech Communication: Conversational English.**

*Three credits. Three hours of lecture and two laboratory periods of a half hour per week Prerequisites: FOR STUDENTS WITH NUTRITION OR DIETETIC MAJORS.*

Corrective speech training to develop fluency and accuracy in conversation and exercises in the listening comprehension of spoken English, all integrated with language laboratory practice.

**INGL3192 - Introduction to Speech Communication: Conversational English.**

*Three credits. Three hours of lecture and two laboratory periods of a half hour per week Prerequisites: FOR STUDENTS WITH NUTRITION OR DIETETIC MAJORS; ENGL 3191.*

Corrective speech training to develop fluency and accuracy in conversation and exercises in the listening comprehension of spoken English, all integrated with language laboratory practice. Special emphasis is given to the study of the speech communication process. (c)

**INGL3205 - the Grammar and Usage of English I.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3103-3104 AND LEVEL 5 ON THE ENGLISH DEPARTMENT PLACEMENT TEST. NATIVE SPEAKERS OF ENGLISH OR STUDENTS WHO TOOK HONORS ENGLISH IN GENERAL STUDIES WILL NOT BE ADMITTED. OTHER STUDENTS MAY BE ADMITTED DEPENDING ON THEIR SCORES ON A GRAMMAR DIAGNOSTIC TEST.*

Strengthening of knowledge and skills of non-native speakers of English in English grammar and usage. Intensive practice in question and negative formation, placement of frequency adverbs, verb tenses, modals, gerund and infinitive phrases, prepositions and punctuation as it relates to grammatical structure. (c) face-to-face, hybrid and online modalities. Effective august 2021.

**INGL3207 - the Grammar and Usage of English II.**

*Three credits. Three hours of lecture per week Prerequisites: INGL 3101-3102; LEVEL 5 IN PLACEMENT TEST; INGL 3205.*

Strengthening the knowledge and skills of non-native speakers of English in English grammar and usage. Intensive practice in adjective clauses, noun clauses, parallel structures, adverb clauses, and conditional sentences. (c) 18-01-98

**INGL3215 - Mystery Fiction as Literature.**

*3 credits. Three hours of lecture per week.*

A study of the literary aspects of mystery fiction and its relationship with masterpieces of such authors as Dostoevsky, Dickens, Twain, Borges, Conrad and James. Emphasis on structure of plot, characterization and psychology, atmosphere, reader involvement. Includes a historical survey of the mystery form.

**INGL3217 - Drama.**

*3 credits. Three hours of lecture per week.*

Introduction to the study of drama.

**INGL3220 - Literary Analysis: Reading and Writing the Screenplay.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Study of screenplays written in English as literary texts and as works written for performance. Literary analysis of the screenplay in its use of time and place, characters, plot, language and structure. Writing of descriptive and analytical essays based on the theoretical and artistic materials discussed in class and of short screenplays, whether original or adaptations.

**INGL3221 - Introduction to Literature I.**

*Three credits. Three hours of lecture per week.*

Analytical and appreciative reading of short stories, novels and essays. (c)

**INGL3222 - Introduction to Literature II.**

*Three credits. Three hours of lecture per week.*

Analytical and appreciative reading in drama and poetry. (c)



**INGL3224 - Introductory Readings in Language.**

*Three credits. Three hours of lecture per week Prerequisites: INGL 3103-3104 OR ADVANCED PLACEMENT TEST IN ENGLISH.*

Study of selected readings by different authors on the nature of language and the psychological and sociological aspects of communication. This course will be offered face-to-face, hybrid and online modalities. 01-06-98

**INGL3226 - The Afro-American Experience.**

*3 credits. Three hours of lecture per week.*

An introduction to Afro-American literature from the 18th century to the present. Readings in all literary genres as well as in historical and sociological works dealing with the development of the African-American consciousness. (c)

**INGL3227 - Phonetics and Phonemics of American English.**

*Three credits. Three hours of lecture per week.*

Techniques for correct pronunciation and rhythm with considerable practice in oral English. Major attention will be given to individual speech difficulties. (c)

**INGL3228 - Literature by Women.**

*3 credits. Three hours of lecture per week.*

Study of selected writings by women. Exploration of how women view their condition in society and how they have depicted their roles through poetry, fiction, drama and the literary essay. Face-to-face, hybrid and online course

**INGL3229 - the Caribbean Experience in Literature.**

*3 credits. Three hours of lecture per week.*

An introduction to Caribbean literature in English with emphasis on the contemporary period. Readings are in all literary genres and include such writers as v. S. Naipaul, Shiva Naipaul, Jean Rhys, George Lamming, Michael Anthony, Jamaica Kincaid, Errol John, Derek Walcott, Earl Lovelace and Kamau Brathwaite. Attention is given to development of distinctively Caribbean techniques and themes.

**INGL3231 - Expository Writing.**

*Three credits. Three hours of lecture per week.*

Themes with emphasis on expository writing; note-taking, precise writing, answers to discussion-type examination questions, book reports. Regularly scheduled individual conferences with the professor. (c) this course will be offered face-to-face, hybrid and online modalities.

**INGL3232 - Expository Writing II.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3231.*

Themes with emphasis on expository writing; note-taking, precise writing, answers to discussion-type examination questions, book reports. Research paper during second semester. Regularly scheduled individual conferences with the professor. Face-to-face, hybrid and online course. Effective January 2021. This course change in title before expository writing. Effective January 2021.

**INGL3235 - Translation: Basic Practices.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3101-3102.*

Grammatical and syntactical aspects of written English. Approach through prose translations. Examination of idiomatic expressions, verbal structure and vocabulary. Face-to-face, online and hybrid course. Effective

august 2021.

**INGL3236 - Scientific Writing.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL.3103-3104 OR HIGHER.*

Three credits. Three hours of lecture per week Prerequisites: ENGL.3103-3104 OR HIGHER.

**INGL3237 - Introduction to Journalistic Writing.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3103-3104 OR A MORE ADVANCED COURSE.*

News gathering and reporting. Practice in writing features, editorials, book reviews, sports stories. Emphasis on news reporting.

**INGL3238 - Introduction to Creative Writing: Poetry.**

*3 credits. Three hours of lecture per week Prerequisites: ONE OF THE FOLLOWING COURSES*

Introduction to the writing of poetry. Intensive individual work and group workshop in writing poetry. Face-to-face, online and hybrid course. Effective august 2021.

**INGL3245 - Literary Translation.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3235 AND PERMISSION OF THE PROFESSOR.*

This course will deal with more advanced theory of translation, including some readings in the field.

Translation exercises will be aimed at literary texts such as: poems, short stories, and well-turned essays, all to be translated from Spanish to English. Face-to-face, hybrid and online course. Effective January 2021.

**INGL3249 - Introduction to Creole Languages of the Americas.**

*Three credits. One and a half hour of conference and one and a half hour of discussion per week Prerequisites: ADVANCED PLACEMENT TEST IN ENGLISH OR INGL 3103-3104 OR LEVEL 5 IN PLACEMENT TEST OR INGL 3011-3012.*

A study of the historical and linguistic perspective on the genesis of the creole languages in the Americas as legitimate and fully-formed language vehicles. Face-to-face, hybrid and online modalities. Effective august 2021. 20-01-98

**INGL3251 - American Literature to 1865.**

*3 credits. Three hours of lecture per week.*

The development of American literature from the colonial origins through 1865, based on major authors and trends.

**INGL3252 - American Literature from 1865 Through the Present.**

*3 credits. Three hours of lecture per week.*

The development of American literature from 1865 through the present, based on major authors and trends. This course will be offered face-to-face, hybrid and online modalities.

**INGL3257 - Introduction to Public Speaking.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3255, PREVIOUS TRAINING IN SPEECH OR INSTRUCTOR'S CONSENT.*

Introductory course in the theory and practice of public speaking. Critical analysis of speeches. Face-to-face, online and hybrid course. Effective august 2021.

**INGL3258 - Parliamentary Practices in English.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3255, PREVIOUS TRAINING IN SPEECH OR INSTRUCTOR'S CONSENT.*

Practice in oral English through participation in parliamentary procedure. Emphasis on formulating a constitution, conducting meetings, making motions, voting, adjourning meetings, and preparing minutes.

**INGL3259 - the Immigrant Experience.**

*3 credits. Three hours of lecture per week.*

Study of literature reflecting the experiences of different immigrant groups in the United States. (c) face to face and hybrid course.

**INGL3266 - No-verbal Communication.**

*3 credits. Three hours of lecture per week Prerequisites: ENGL 3103-3104, OR ENGL 3011-3012, OR LEVEL 5 IN THE PLACEMENT TEST OF THE ENGLISH DEPARTMENT OF THE FACULTY OF HUMANITIES, OR ADVANCED LEVEL IN ENGLISH.*

An examination of human nonverbal communication behaviors and their contributions to the human communications process from both intra and intercultural perspectives. This course face-to-face, hybrid and online modalities.

**INGL3275 - Theories of Human Communication.**

*3 credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE PROFESSOR.*

An introduction to the nature and functions of human communication as a field of study. An examination of theoretical model building in communication, a review of human signal and symbol systems, including theories of the humanistic, scientific, and technological aspects in the areas of inter- personal, intercultural, organizational, and nonverbal. An exploration of the selected views or directions of human communication. (c) face to face hybrid and online course.

**INGL3285 - Puerto Rican Literature Written in the United States.**

*3 credits. Three hours of lecture per week,*

The study of literature by Puerto Rican writers in English from the United States with special emphasis on the development of themes, techniques and language. (c) face-to-face, online and hybrid course. Effective January 2021.

**INGL3286 - Creative Writing: Fiction.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: ONE OF THE FOLLOWING*

Intensive individual work and group discussion of techniques of fiction writing.

**INGL3287 - Communication Ethics.**

*Three credits. Two hours lecture and one discussion per week Prerequisites: ONE OF THE FOLLOWING*

An examination of the nature and function of ethics in human communication and the need to develop tolerance toward disagreement and ambiguity.

**INGL3291 - Writing About Literature I.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL. 3103-3104, OR ENGL. 3011-3012, OR LEVEL 5 ON ENGLISH DEPARTMENT PLACEMENT TEST, OR ADVANCED PLACEMENT IN ENGLISH. HIGH LEVEL OF FLUENCY, KNOWLEDGE OF SYNTAX AND VOCABULARY. (THIS COURSE IS INTENDED FOR ENGLISH MAJORS IN LITERATURE, AND SHOULD BE TAKEN IN THE SECOND YEAR OF STUDY. REQUIRED FOR ENGLISH MAJORS IN LITERATURE.)*

Introduction to literary analysis, critical theory and critical writing. Students will write a series of critical

essays. Face-to-face, online and hybrid course. Effective august 2021.

### **INGL3292 - Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3291.*

Study of the various critical approaches to one or more particular literary works. Literary research and a final critical paper.

### **INGL3347 - the Rhetoric of Identity.**

*Three credits. One hour of lecture and two hour of discussion per week Prerequisites: INGL 3103, INGL 3104 OR INGL 3011, INGL 3012 OR LEVEL FIVE IN THE ENGLISH DEPARTMENT PLACEMENT EXAM OR LEVEL THREE OR MORE IN THE COLLEGE BOARD ADVANCED LEVEL EXAM.*

A critical study of rhetorical artifacts, from a variety of contexts, on a range of issues pertaining to the social construction of identities.

### **INGL3375 - Gay and Lesbian Narratives.**

*Three credits. Three hours of lecture per week Prerequisites: SCORE OF 4 OR 5 IN THE ENGLISH PLACEMENT TEST; INGL 3103-3104.*

Survey and definition of gay and lesbian literature with focus on analysis of short stories, films, autobiographical writings and novels dealing with gay-lesbian topics.

### **INGL3401 - Afro-Caribbean Creole I.**

*Three credits. Two hours of lecture and three of discussion per week.*

Elementary language learning classes in a particular dialect of Afro-Caribbean English lexifier creole which are designed to foster basic competence in pronunciation, speaking, comprehension, reading, writing, aspects of cultural practice and the use of vocabulary. the dialect chosen as the "target dialect" for language learning may vary from year to year. in addition, special studies are carried out on the west African Jamaican, and Lesser Antilles dialects of the language. Provides students with an initial preparation to do scholarly research in communities that speak Afro-Caribbean English lexifier creole by training them in how to analyze spoken and written data taken from the various dialects of the language and in how to communicate effectively with the speakers of Afro-Caribbean English lexifier creole. This course is equivalent to Creole 3401.

### **INGL3402 - Afro-Caribbean Creole II.**

*Three credits. Two hours of lecture and three hours of discussion per week Prerequisites: CREO 3201.*

Intermediate level language learning classes in a particular dialect of Afro-Caribbean English lexifier creole which are designed to foster intermediate competence in pronunciation, speaking, comprehension, reading, writing, aspects of cultural practice and the use of vocabulary. the dialect chosen as the 'target dialect' for language learning may vary from year to year. in addition, special studies are carried out on the south America, Central American, North American, and lesser Antilles dialects of the language. Provides students with an intermediate level preparation to do future scholarly research in communities that speak Afro-Caribbean English lexifier creole by training them in how to analyze spoken and written data and in how to communicate effectively with the speakers of Afro-Caribbean English lexifier creole.

### **INGL3415 - Aids: A Rhetorical Perspective.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Selected works on aids are studied from a rhetorical perspective or approach. Areas of study include: rhetorical strategies, rhetorical perspective (genre approach, dramatist perspective, rhetorical exigence) and metaphors of aids. Emphasis on aids as physical and social epidemic and the ethics of community.

### **INGL4000 - English Literature of the Seventeenth Century.**

*Three credits. Three hours of lecture per week.*

A study of the works of John Donne and the metaphysical poets, Ben Jonson and the cavalier poets, John Milton. Face-to-face, online and hybrid course. Effective January 2021.

**INGL4005 - Literature, Orality and Performance.**

*3 credits. Three hours of lecture per week.*

Theory, techniques, and intensive practice in the oral interpretation and performance of literary texts. Selection, analysis, and delivery of texts in individual and group readings. Theoretical materials on oral culture and performance are also discussed.

**INGL4006 - Group Discussion.**

*Three credits. Three hours of lecture per week Prerequisites: AT LEAST ONE COURSE IN SPEECH COMMUNICATION IN HUMANITIES ENGLISH OR PERMISSION OF THE PROFESSOR.*

Study and training in group dynamics and leadership. 12-08-97

**INGL4007 - Argumentation and Debate.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3255 OR CONSENT OF THE COUNSELOR. AT LEAST SIX*

Theory and procedures of argumentation and debate. Practice in argumentative and persuasive discourse. Emphasis on the development of critical thinking.

**INGL4017 - The Romantic Movement.**

*Three credits. Three hours of lecture per week Prerequisites: SECOND YEAR ENGLISH.*

the English romantics, including Blake, Wordsworth, Coleridge, Shelley, Keats and Byron. Main trends and aspects of the romantic movements, and a study of the individual romantic writers.

**INGL4019 - Satire.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

A study of satire, its history, conventions, strategies, and the genres in which it appears. Reading and analysis of works from different periods, from antiquity emphasizing English-language satire ranging from the medieval period to modern and contemporary satirists.

**INGL4029 - Studies in Literature and Film.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: LEVEL 5 OR HIGHER IN THE PLACEMENT TEST OF THE ENGLISH DEPARTMENT OR APPROVING THE ADVANCED PLACE TEST IN ENGLISH.*

A specialized topic course reflecting formal trends and critical issues in the study of literature and film. Topics vary per semester. the course may be taken up to three times with different themes. Theme: the hero's journey in the Star Wars saga. Face-to-face, hybrid and online.

**INGL4035 - British Drama from the Middle Ages to the Eighteenth Century.**

*3 credits. Three hours of lecture per week.*

A study of the development of British drama from the Middle Ages to the end of the eighteenth century, excluding Shakespeare.

**INGL4037 - Introduction to Literary Theory: Theory and Critical Writing.**

*Three credits. One hour half lecture and discussion per week Prerequisites: INGL 3103-3104 OR 3011-3012, OR LEVEL FIVE ON THE ENGLISH DEPARTMENT PLACEMENT TEST, OR ADVANCED PLACEMENT IN ENGLISH. HIGH LEVEL OF FLUENCY.*

Introduction to literary theory. Discussion of theoretical terms, schools of thought, and approaches, along

with their socio-historical contexts. It provides the tools to write critically employing strategies learned from the critical texts.

**INGL4038 - Queer Sexualities in Film.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: ONE OF THE FOLLOWING*  
An analysis of filmic representations of queer sexual practices and identities.

**INGL4039 - Shakespeare on Film.**

*Three credits. One hour a half of lecture and one hour a half of discussion per week Prerequisites: ONE OF THE FOLLOWING*

Three credits. One hour a half of lecture and one hour a half of discussion per week Prerequisites: ONE OF THE FOLLOWING

**INGL4046 - Globalization and World Literature.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week.*

An interdisciplinary course that examines different literary genres and films that address-from a variety of perspectives-contemporary issues in globalization, power and development, and their literary and theoretical considerations and representations.

**INGL4048 - the Arthurian Legend in Literature and Popular Culture.**

*3 credits. One hour of conference and two hours of discussion per week Prerequisites: HIGH FLUENCY IN ENGLISH REQUIRED.*

A study of the origins of the legend of King Arthur in medieval Wales, England, Ireland and France, tracing the legend's development, transmission, and transformation up to the 21st century in literary texts and popular culture. the course will focus and the development and adaptations of the Arthurian materials from their origin to modern approaches and adaptations. the course will explore the power of myth and legend, as well as analyze the processes of historical change, cultural exchange, adaptation, and appropriation. Face-to-face, hybrid and online course. Effective January 2021.

**INGL4049 - Special Topics in Caribbean Literature and Culture.**

*3 credits. One hour of lecture and two hours of discussion per week.*

A specialized topics course on Caribbean society and literary expression, featuring analysis of literature and other areas such as film history, music, politics, performance, religion, or popular culture. Topics vary per semester. Course can be taken up to three times when different themes are covered.

**INGL4050 - Aging, the End-of-life and Death in Literature Film.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

A specialized interdisciplinary study of literature and films related to themes of aging, the "end-of-life experience" and death. Study of how the literary and cinematic imagination engages with issues of aging through autobiography ethnography, essays, short stories, poetry, dramatic plays, novels and films. Face-to-face, online and hybrid course. Effective august 2021.

**INGL4055 - Film and/as Literature.**

*3 credits. Three hours of lecture per week.*

A study of the close relationship between film and literature. Examination of literature texts followed by viewing of screen versions and discussion of techniques, differences between mediums, changes in the filmic interpretation and effectiveness. Writers who are influenced by film or write screenplays are included. Face-to-face, online and hybrid course. Effective august 2021.

**INGL4056 - Special Topics in American Literature.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

A specialized topic course reflecting current trends and issues in the study of American literature and culture. Topics vary per semester. It may be repeated up to a maximum of three times (equivalent to nine credits.)

**INGL4057 - Communication and Sexualities.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: ENGL 3103-3104, OR ENGL 3011-3012, OR LEVEL FIVE ON ENGLISH DEPARTMENT PLACEMENT TEST, OR ADVANCED PLACEMENT IN ENGLISH. HIGH FLUENCY REQUIRED.*

This course is an introduction of lectures and discussion related to the study of communication and sexualities. the course is designed to develop students' abilities to think critically about and analyze issues of sexualities and/in communication processes. More specifically, it examines how sexual identities are created, shaped, produced, reproduced, maintained, changed, contested and challenged through social interaction and discursive practices.

**INGL4058 - Bilingual Performance.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: 4 TO 6*

The elective course is designed to introduce students to the process of creating an original production from a script. the script chosen will be in either English or Spanish and will be translated into the other language. Students will participate as actors, stage designers, set builders, costume designers, dramaturgs, and publicity representatives. Maintaining a weekly journal and writing a final report will be part of students' responsibilities. the course will culminate in an original production of the play in its original language and in its new translation. This course is equivalent to 4058.

**INGL4065 - Literature, Masculinities and Caribbean Cultural Development.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week.*

An interdisciplinary course that explores key concepts in the development of masculinities as socially constructed through literature, film and popular culture in the Caribbean and internationally. It provides students with an introduction to the study of men and male behavior as a socio-cultural product and recent debate on the topic. This course is an option to fulfill the literature requirement of the general education component. Face-to-face, online and hybrid course. Effective august 2021.

**INGL4069 - Us/latino/a Drama.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

The course explores Latino drama with an emphasis on plays and theatre traditions in the United States since 1950, particularly related to Puerto Ricans, Cubans and Chicano communities, among others. the course is an option to fulfill the literature requirement of the general education component.

**INGL4076 - Special Topics in Communication.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: LEVEL 5 OR HIGHER ON THE HUMANITIES ENGLISH PLACEMENT TEST, OR ADVANCED PLACEMENT IN ENGLISH. HIGH LEVEL FLUENCY IN ENGLISH.*

A specialized topic course reflecting trends and issues in the study of human communication. Topics vary per semester. Course can be taken for credit up to three times, offered under different themes.

**INGL4095 - the Victorian Period.**

*Three credits. Three hours of lecture per week.*

A study of the various aspects of Victorianism as reflected in the writings of the period. Face-to-face, hybrid and online course. Effective for January 2021.

**INGL4096 - Twentieth Century Poetry.**

*Three credits. Three hours of lecture per week.*

The chief poets writing in English from 1914 to the present.

**INGL4105 - Language Change.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3225 OR 4205 OR PERMISSION.*

The study of language change in time and space and the social motivation for change. Face-to-face, hybrid and online modalities. Effective august 2021.

**INGL4115 - Introduction to Rhetorical Criticism.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: AT LEAST ONE COURSE IN SPEECH COMMUNICATION IN HUMANITIES ENGLISH OR PERMISSION OF INSTRUCTOR. HIGH FLUENCY REQUIRED.*

An introduction to the methods, theories, and practice of rhetorical criticism.

**INGL4125 - Introduction to Semantics.**

*Three credits. Three hour of lecture per week Prerequisites: FIRST YEAR ENGLISH*

Introduction to the study of the meanings of words and utterances, their variables and their universal employment. of interest to students of communication, literature, translation and linguistics.

**INGL4127 - Representations of Identity in North American Film and Literature.**

*3 credits. One hour and a half of lecture and hour and a half of discussion per week Prerequisites: INGL 3101-04 OR INGL 3011-12 OR LEVEL FIVE IN THE ENGLISH DEPARTMENT PLACEMENT EXAM OR LEVEL THREE IN THE COLLEGE BOARD PLACEMENT EXAM.*

Historical survey of the images made in American film ethnicity. Gender, and/or race, from the opening of the 20th century to the present. the development of skills for "reading" a variety of cultural representations made of ethnicity, gender, and "otherness" by focusing on a variety of American film and literary texts, by analyzing key moments in the nation's history and ideological development, and by examining the basic precepts cultural critics bring to our understanding of the meaning of imagers and how these may affect identity. the analysis of the politics of representation and the processes of renegotiations by examining the dialectical push of cultural construction and domination of targeted "others", and the pull of an insistent social consciousness and political activism that generates waves of newly focused and independent narrative.

**INGL4145 - Family Communication.**

*Three credits. One hour of conference and two of discussion per week Prerequisites: ONE OF THE FOLLOWING*  
Three credits. One hour of conference and two of discussion per week Prerequisites: ONE OF THE FOLLOWING

**INGL4206 - The Grammar of Modern English: Sentence and Clause Structure.**

*Three credits. Three hours of lecture per week.*

Syntactic functions, part of speech distinctions, clause patterns and punctuation. Face-to-face, online and hybrid course. Effective January 2021.

**INGL4207 - Introduction to Transformational Grammar.**

*Three credits. Three hours of lecture per week Prerequisites: SIX*

Introduction to linguistics principles as viewed by transformational grammarians. A study of the linguistic processes by means of which thoughts are expressed in English. Principles and history of transformational grammar.



**INGL4208 - the Development of Modern English.**

*Three credits. Three hours of lecture per week.*

English within the Indo-European family of languages. the old English, middle English and early modern periods. the historical background of modern American English. Face-to-face, hybrid and online course. Effective January 2021.

**INGL4209 - Grammar of Modern English: Sentence and Clause Structure.**

*Three credits. Three hours of lecture per week Prerequisites: INGL 3103-3104, 3011-3012, LEVEL 5 ON DEPARTMENT TEST OR ADVANCED PLACEMENT TEST.*

An intensive study of the structure of the English language. 05-06-98

**INGL4215 - Contemporary Novel.**

*3 credits. Three hours of lecture per week.*

Study of the contemporary novel, its trends and themes from 1940 to the present. Texts may be chosen from British, American, or other English-language literatures.

**INGL4216 - Twentieth Century Drama.**

*Three credits. Three hours of lecture per week.*

Significant plays written in the English language since 1914.

**INGL4217 - Contemporary Drama.**

*3 credits. Three hours of lecture per week.*

Representative British and American dramatists from 1940 to the present.

**INGL4218 - American Literature and the American Dream.**

*3 credits. Three hours of lecture per week.*

Study of the growth and decline of faith in the American dream and the traditional values of American society, as reflected in its literature. Face-to-face, hybrid and online modalities. Effective august 2021.

**INGL4219 - American Fiction of the Nineteenth Century.**

*Three credits. Three hours of lecture per week.*

The work of the major novelist and short story writers of the period.

**INGL4225 - American Myths and Values in Literary Genres and Films.**

*3 credits. Three hours of lecture per week.*

The study of literary and film genres as: the western, comedy, horror, gangsterism, film noir, etc. Emphasis on topics as: narrative style, themes, ideology, values, myths and the reality reflected in typically American film and literary genres. Course face-to-face, hybrid and online modalities.

**INGL4230 - Introduction to Human Communication Research.**

*3 credits. Three hours of lecture per week Prerequisites: SIX*

Introduction to the theoretical and practical concerns underlying procedures most commonly used in human communication research. Course face-to-face, hybrid and online modalities.

**INGL4235 - Contrastive Analysis of the Sound System of English and Spanish.**

*Three credits. Three hours of lecture per week Prerequisites: SECOND YEAR ENGLISH.*

Phonetics, phonemics, stress and intonation of American English and Puerto Rican Spanish contrasted in detail.

**INGL4236 - Contrastive Analysis of the Syntactic Structures of English and Spanish.**

*Three credits. Three hours of lecture per week Prerequisites: SECOND YEAR ENGLISH.*

Inflection, word order, word formation, phrase structure and clause structure of English and Spanish.

**INGL4237 - Introduction to Linguistic Research.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3225 OR ENGL 4205.*

Methods of doing fieldwork and library research in language. Course face-to-face, hybrid and online modalities.

**INGL4238 - Twentieth Century Fiction.**

*Three credits. Three hours of lecture per week.*

Representative novelists and short story writers working in English from 1914 to the present.

**INGL4256 - Us Latino/a Literature.**

*3 credits. One hour of lecture and two hours of discussion per week.*

A study of the literature produced by Latino/a writers in the us and its contribution to a multifaceted American literary tradition. from a trans- national perspective, the course explores themes and issues found in the texts such as assimilation, bilingualism, biculturalism, etc., and critically analyzes the historical, cultural, social, and political contexts in which the works are produced. Course face-to-face, hybrid and online modalities.

**INGL4265 - Magical Realism in North American Narrative.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

The comparative study of the many instances where magical realism flourishes within the narrative tradition of North America. Theoretical, literary, and film texts will be included.

**INGL4336 - the Dark Side of Human Relationships.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: AT LEAST ONE COURSE IN SPEECH COMMUNICATION IN HUMANITIES ENGLISH OR PERMISSION OF INSTRUCTOR. HIGH FLUENCY IN ENGLISH LANGUAGE REQUIRED.*

Exploratory and critical study of interpersonal communication research that focuses on the role those darker behaviors play in human relationships. the intent is to shed light on the darker side of social behavior (e. G. Deception, obsession, jealousy, infidelity, gossip, conflict, grief, taboos, betrayal, guilt) while redressing the ideology of optimism characteristic of the study of interpersonal relationship from a human communication perspective. 01-08-03

**INGL4346 - Contemporary Rhetorical Theory.**

*Three credits. Two hours lecture and one hour discussion per week Prerequisites: ONE OF THE FOLLOWING*

Introduction to the history and development of rhetorical theory with special attention given to the contemporary period.

**INGL4347 - Classical Rhetorical Theory.**

*Three credits. Two hours lecture and one hour discussion per week Prerequisites: ONE OF THE FOLLOWING*

Introduction to the history and development of theoretical theory in the western world with special attention given to the classical period.

**INGL4505 - Disability Studies and the Humanities.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

An interdisciplinary course that examines disability through the humanities from several cultural perspectives. Study of how the artistic, literary, cinematic and performative imagination engages with disability issues and lived experiences through autobiography, autoethnography, essays, short stories, poetry, dramatic plays, novels, films. Dance, photography and other visual arts

**INGL4506 - Narratives of Health and Healing.**

*Three credits. One hour and a half of discussion and one hour and a half of seminar per week.*

Exploration of health and healing, including cultural meanings of wellness and illness, through an understanding of narrative, narrative research, and narrative analysis. This exploration will include frequent writing practice in how to tell a story and result in a research-based application of new knowledge about narrative. Emphasis is on storytelling processes that influence and are influenced by health and healthcare contexts within a community and culture.

**INGL4611 - Introduction to the African Novel.**

*Three credits. Three hours of discussion per week.*

An interdisciplinary course that examines African novel along with other foundational literary texts across genres that led to the African novel's development: oral narratives, poetry, short stories, novels, plays, and visual texts across geographic and cultural boundaries. This course will be offered face-to-face, hybrid and online modalities.

**INGL4995 - Special Topics in Trauma Madness, and Healing in Contemporary Narratives.**

*Three credits. One hour of lecture one of discussion and one of research per week.*

An interdisciplinary course that studies essays, short stories, poetry, plays, novels, films, popular culture, rhetorical texts, and medical writings that address, from several cultural perspectives, the relationship between trauma, madness, and healing in literature. Students may take course two times if the subtopics are different. Topics: postcolonial geographies of pain: Caribbean postcolonial trauma narratives and healing.

**INGL4996 - Topics in Medical Humanities and Health, Literature and Cinema.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

A specialized interdisciplinary topics course reflecting formal trends and critical issues in the study of literature and film, as related to fields of medical humanities and health. Topics vary per semester. the course may be taken up to two times with different themes.

**INGL5017 - Short Story Writing.**

*Three credits. One hour of lecture and two of discussion per week Prerequisites: CONSENT OF THE PROFESSOR BASED ON A WRITTEN SAMPLE.*

Intensive individual work in the writing of the short story.

**INGL5035 - Travel for Study in Literature Communication or Linguistics.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: NONE FOR UNDERGRADUATE STUDENTS. FOR GRADUATE STUDENTS REQUIRES THE APPROVAL OF THE DEPARTMENT DIRECTOR IN ORDER TO COUNT THE COURSE FOR THE ACQUISITION OF A DEGREE. EVERY STUDENT NEEDS THE PROFESSOR'S PERMISSION AND THE ABILITY TO ENGAGE IN THE ACADEMIC ASPECT OF THE TRIP.*

A combination of study and travel in which students will be able to encounter the places, cultural artifacts, and history of subjects in the study of literature, communication or linguistics. Different variants of study will be offered to give students the experience of travel to the countries of the literature, communication, or linguistics studied and give them the opportunity to engage directly with the culture, language, discourse, history, art, and architecture of the periods, authors, or types of literature being studied, and to acquire firsthand experience of the communication or linguistic topic being studied. This course can be repeated up

to three times (9 credits.)

### **ITAL3001 - Intensive Italian I.**

*3 credits. Five hours of lecture and two and a half hours of laboratory work per week Corequisites: ITAL3001L*

This course is for beginner students of Italian and focuses on the development of the communicative competence through the four basic skills (oral and written comprehension, reading and writing) and the contact with Italian culture. Face to face, hybrid and online course

### **ITAL3002 - Intensive Italian II.**

*3 credits. Five hours of lecture and two and a half hours of laboratory Corequisites: ITAL3003L*

Second semester of intensive Italian course. It focuses on the development of the communicative competence through the four the four basic skills (oral and written comprehension, reading and writing) and the contact with Italian culture. Face to face, hybrid and online course

### **ITAL3011 - Experimental Italian I.**

*Three credits. Five hours of lecture per week.*

Intensive study of the basic grammatical structures of the Italian language with special stress on text readings and oral and written exercises at the adequate level.

### **ITAL3012 - Experimental Italian II.**

*Three credits. Five hours of lecture per week.*

Intensive study of the basic grammatical structures of the Italian language with special stress on text readings and oral and written exercises at the adequate level.

### **ITAL3013 - Audiolingual Laboratory.**

*No credits. One hour and a half of laboratory work per week Prerequisites: CONCURRENTLY WITH ITAL 3011-3012.*

The audio-lingual laboratory will be a requisite for the completion of the first-year Italian course. the laboratory practice will add and reaffirm the knowledge and skills obtained in the classroom. the practice will be divided in 30 minutes sessions three times a week.

### **ITAL3014 - Audiolingual Laboratory.**

*No credits. One hour and a half of laboratory work per week Prerequisites: CONCURRENTLY WITH ITAL 3011-3012.*

The audio-lingual laboratory will be a requisite for the completion of the first-year Italian course. the laboratory practice will add and reaffirm the knowledge and skills obtained in the classroom. the practice will be divided in 30 minutes sessions three times a week.

### **ITAL3023 - Intensive Italian III.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3011-3012.*

Third semester of the intensive course in Italian. Reading and discussion of selected examples of modern and contemporary Italian literature. Conversations and written composition will be based mainly on the themes of the selections studied in class. (c)

### **ITAL3033 - Experimental Italian III.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3011-3012.*

Oral and written review of grammatical structures with exercises in composition and translation by means of specially selected text aimed at enlarging student's vocabulary and initiating students in their literary analysis.

**ITAL3035 - Intermediate Italian for Specialists.**

*3 credits. Three hours of conference and one and half hours of workshop Prerequisites: ITAL 3011 AND 3013; ITAL 3012 AND 3014 OR ITAL 3001-3002*

Presentation of Italian grammar elements not studied in the first year of Italian. Development of vocabulary and conversational skills as well as the study of Italian culture and some literary aspects. (c)

**ITAL3055 - Italian Diction and Phonetics-compendium.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3011-3012 OR ITS EQUIVALENT.*

Study of the sounds, modulations and rhythm of the Italian language, through readings of outstanding, classical and modern authors of its literature.

**ITAL3081 - Italian as a Research Tool I.**

*Three credits. Two hours of conference per week and one hour of discussion.*

Reading, analysis and translation of various texts for the purpose of conducting research in Italian. 16-01-02

**ITAL3082 - Italian as a Research Tool II.**

*Three credits. Prerequisites: ITAL 3081*

Reading, analysis and translation of various texts for the purpose of conducting research in Italian. 16-01-02

**ITAL3505 - Historical and Cultural Background of the Italian Language.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: ITAL-3023 OR ITAL-3033 OR ITAL-3035.*

Conferences and discussion on history of the Italian language addressed to foreign languages students as well as other majors, with an intermediate to advance knowledge of the Italian language, in order to offer a historical and cultural perspective of the Italian language since its origins until our century. the course is divided in two blocks: the first studies the historical steps from the vulgar Latin to the dialects, until the affirmation of common Italian. the second block will discuss the diffusion of the Italian since the unification of Italy in 1860 until the current linguistic situation through the study of the governmental measures for the diffusion of the language.

**ITAL3995 - Study Trip to Italy.**

*ITAL3995 - Study Trip to Italy. Prerequisites: TO HAVE 18 YEARS OR MORE, HAVE COMPLETED THE FIRST 2 YEARS OF THE BA, AN INTERVIEW AND THE AUTHORIZATION OF THE DIRECTOR.*

This course will provide the student a life experience in Italy. on the one hand, the student will study the language, culture and literature of Italy in an accredited institution in the selected region. on the other hand, the course will cover cultural aspects and cross-cultural competence outside the classroom providing excursions cultural activities and personal interactions that will permit the student to get to know the people, the landscape, the geography, the culture and the distinctive characteristics of the country. the student may repeat the course with different topics and in different institutions up to a maximum of 12 credits. This course will be conducted in Italian.

**ITAL4001 - Italian Civilization I.**

*3 credits. Three hours of lecture per week Prerequisites: ITAL 3035.*

Study of key themes and significant aspects of Italian culture from pre- roman Italy to the 18th century. This course will be offered face-to-face, hybrid and online modalities. New description begins on august 2021.

**ITAL4002 - Italian Civilization.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3023 OR ITS EQUIVALENT.*

Study of patterns of the life and culture of Italy, mainspring of its literature, as represented in the works of its outstanding writers, through readings, discussion in class, oral and written reports.

#### **ITAL4006 - Independent Study in Italian.**

*Three credits. Three hours of independent study per week Prerequisites: ITAL 3035 OR ITAL 3033.*

*AUTHORIZATION OF THE PROFESSOR, ACADEMIC ADVISOR, AND THE DIRECTOR OF THE DEPARTMENT. PRESENT TO THE DIRECTOR, THE SEMESTER PREVIOUS TO TAKE THE COURSE, A PROPOSAL OF THE THEME TO BE DEVELOPED FOLLOWING THE PROCEDURES ESTABLISHED BY THE DEPARTMENT. Corequisites: COULD BE TAKEN CONCURRENTLY WITH ANY OF THE LEVEL 4 COURSES.*

Guided research in Italian concerning themes, theoretical proposals on specific problems in the discipline according to the student's personal interests. the course can be taken a maximum of three times (9 credits) on different themes.

#### **ITAL4008 - from the Baroque to Romanticism.**

*Three credits. Two hours of lectures and one hour of discussion per week Prerequisites: ITAL 3035, OR ITAL 3023; OR ITAL 3033.*

Elective course of lectures and discussion of readings for students that have an advanced command of Italian. Analyzes the literature of the 17th and 18th centuries, concerning the baroque and illustration. Attention will be given to both general characteristics and more specific aspects of authors such as Marino, Della Valle, Sarpi, Galileo, Parini, Alfieri, Vico, Metastasio and Goldoni.

#### **ITAL4009 - Italian Neorealism in Literature and Cinema (1929-1955).**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: ITAL 3023 OR ITAL 3033 OR ITAL 3035.*

A survey of novels and movies that mark the period of Italian neorealism in 20<sup>th</sup> century cinema and literature. the course is designed for intermediate and advanced students who will gain a historical, political, social and literacy view of Italy from of fascist era to the mid-1950s. Classes will be a combination of lecture and discussion of the following themes: the history of the genre and the link between literature and cinema; the representation of fascism, antifascism and the war; the crisis of the bourgeois class; the "questioned of mezzogiorno", the holocaust and racial persecution; the concept of diversity and identity; the "resistenza" and the political commitment of the intellectuals; the portrayal and condition of Italian women.

#### **ITAL4011 - Introduction to Italian Literature I.**

*3 credits. Three hours of lecture per week.*

The study of key texts of Italian literature from the Middle Ages to the early 17th century, and of the literary schools or periods that delimit them, with special emphasis on the study of literary history, critical reading, and literary analysis. In-class, online and hybrid course. Face-to-face, online and hybrid course.

#### **ITAL4012 - Introduction to Italian Literature II.**

*3 credits. Three hours of lecture per week.*

Study of key texts or films of texts of Italian literature from the sixteenth century to the present and of the literary schools or periods that frame them, with special emphasis on the study of literary history, critical reading and literary analysis. This course will be offered under the modalities of classroom, hybrid and online. Face-to-face, online and hybrid course. Effective January 2021.

#### **ITAL4015 - Contemporary Italian Writers.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3065, 3041-3042, 3055 OR ITS EQUIVALENT.*

Reading and discussion of the most important works of Alberto Moravia, Italo Sveveo, Ignazio Silone, Carlo Levi and Cesare Pavese.

**ITAL4016 - Techniques of Oral Expression and Communication.**

*Three credits. Three hours of discussion per week Prerequisites: ITAL 3023, 3033 OR 3035.*

Study and practice of the techniques of oral expression and communication in Italian. Analysis and discussion of authentic documents related to diverse situation and contexts. (c) course face-to-face, hybrid and online modalities.

**ITAL4017 - Advanced Italian Composition and Grammar-compendium.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3033 OR ITS EQUIVALENT.*

Grammatical analysis, with oral and written commentary of texts of contemporary authors. (c) course face-to-face, hybrid and online modalities.

**ITAL4025 - the Divine Comedy.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3001-3002; ITAL 3023 OR ITS EQUIVALENT.*

Dante and his times; his vision of the universe. Study of the fundamental themes of the book, as well as its poetic, artistic and cultural values. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2021. This course change in prerequisites: ital 3035. Effective august 2021.

**ITAL4026 - Business Italian.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: ITAL 3023 OR 3033 OR 3035.*

Course designed for students who have an intermediate knowledge of the Italian language and particular interest in the field of economics and commerce it offers a comprehensive picture of the cultural and political context in which employment evolves in Italy and provides students with the necessary vocabulary to interact with the Italian business world.

**ITAL4030 - the Italian Renaissance: from Humanism to Baroque.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: ITAL 3035 OR 3023 OR 3033.*

This course offers a complete view of the development of the literary trends, representative authors and the essential elements of the Italian renaissance, from the humanism of the 14th and 15th century to the high renaissance of the 16th century. It will also analyze the much discussed "questione della lingua italiana" in the larger context of the treatise, the epic poems, historiography, lyric, poetry, and other literary genres of the late Italian renaissance. 21-01-03

**ITAL4031 - Italian Literature of the Nineteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3041-3042; 3065.*

Analytical and critical study of the works of poets, playwrights and novelists whose literary creation reflects the dominant trends, concepts and feelings of this period of Italian literature. (c)

**ITAL4032 - Italian Literature of the Nineteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3041-3042, 3065.*

Analytical and critical study of the works of poets, play writers and novelists whose literary creation reflects the dominant trends, concepts and feelings of this period of Italian literature. (c)

**ITAL4036 - Petrarch and Boccaccio, First Humanists.**

*Three credits. Prerequisites: ITAL 3035 OR ITAL 3023 OR ITAL 3033*

This course presents the life, works and world of Petrarch and Boccaccio it will portray them not only as founders of Italian literature and language but also as actual promoters and protagonists of the humanist movement between the low and high Italian renaissance. 05-05-03

**ITAL4037 - the Italian Theatre of the Renaissance.**

*Three credits. Two hours lecture and one hour discussion per week.*

Detailed study of the Italian theatre of the sixteenth century, with particular attention to selected comedies, tragedies and pastoral drama of Ariosto, Machiavelli, Tasso, Aretino, Trissino and Giraldi Cinzio. Gives emphasis to the renaissance revival of work, from the Greek and roman theatre.

**ITAL4038 - Introduction to Italian Cinema.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: ITAL 3023 OR 3033 OR 3035.*

Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: ITAL 3023 OR 3033 OR 3035.

**ITAL4045 - Italian Theater in the Twentieth Century.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: ITAL 3023 OR 3033.*

Study and analysis of the most representative works of the Italian theater in the twentieth century.

**ITAL4055 - Language and Culture in Italian Cinema.**

*Three credits. Three hours of lecture per week Prerequisites: ITAL 3033 OR 3023.*

Study of Italian language and culture through the art of Italian film.

**ITAL4057 - Italian Novel in Film.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: ITAL 3023 OR 3033 OR 3035.*

The study of the Italian novel and language through the Italian film.

**ITAL4065 - Teaching Italian as a Foreign Language.**

*Three credits. Two hours of lecture and one of discussion per week*

The course covers various theoretical and practical aspects in teaching Italian as a foreign language. First, students will be introduced to the basic notions of second language acquisition, including briefly some elements of psycho and neuro linguistics and an historical outline of language teaching methods. Subsequently, the principles of language teaching and learning will be examined. the core of the course will provide the students with the skill to create basic didactic material and language classes. Collection evaluation and adaptation of sources, selection or creation of exercises and activities, use of technologies, language-competence assessment etc. Finally, a typology of various learner profiles will be identified, and the related approaches will be described accordingly. Course face-to-face, hybrid and online modalities.

**ITAL4095 - Advanced Study Trip to Italy.**

*One to Six credits. Two hours of lecture and one of discussion per week Prerequisites: ITAL3035*

This course will provide the student a life experience in Italy. on the one hand, the student will study the language, culture and literature of Italy. in an advanced level. on the other hand, the course will cover cultural aspects and cross-cultural competence outside the classroom providing excursions, cultural activities and personal interactions that will permit the student to get to know the people, the landscape, the geography, the culture and the distinctive characteristics of the country. the student may repeat the course with different topics and in different institutions up to a minimum of 9 credits. the course will be conducted in Italian.

**ITAL4101 - History of the Italian Language.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: ITAL3035*



the course provides a diachronic linguistic analysis of the development of Italian, and offers a scientific and historical explanation to questions such as the provenance of Italian and its origins from Latin, which are shared with other romance languages such as Spanish, French, Portuguese, etc. Prior knowledge of Latin is not required, as all the examples will be translated and explained. Other topics include how Italian has developed and changed over the centuries, and when and why many words lost their original meaning and have acquired a different one. In this language internal perspective, the course examines the changes which occurred in the phonetics and in the morphosyntax, with some references to lexicology, semantics and pragmatics. On the other hand, the language-external factors are also considered, thus analyzing the socio-cultural changes, which have influenced the literary styles, and have raised an historical debate on the model of Italian language ("la questione della lingua")

### **ITAL4102 - Italian Linguistics.**

*Tree credits. Two hours of lecture and one of discussion per week Prerequisites: ITAL3035*

This course introduces to the linguistic analysis of Italian (phonetics, and pragmatics). After the

### **ITAL4115 - Gender in Italian Literature.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: ITAL 3023 O 3033 O 3035.*

the study of gender and its implications for the reading of classical and modern Italian texts. 20-01-98

### **ITAL4125 - Italian Sociolinguistics.**

*Three credits. Two hours of lecture and one of discussion Prerequisites: ITAL3035*

The course examines linguistic variation in Italy, and provides an insight into the relation between the Italian society and its linguistic forms and attitudes. Thus, the linguistic varieties of modern Italian are measured and analyzed on four dimensions of variation: 1) geo-linguistic, regional and dialect variety (dystopia); 2) social variables such as social status, gender, age, profession, etc. (diastatia) 3) variety of contexts, e. G. Formal vs. Informal, written vs. Spoken, registers, codes, jargons, etc. (diaphasia) 4) means of communication such as television, radio, newspapers, adverts, etc. (diamesia). Accordingly, several types of Italian are identified: standard Italian, popular Italian, and technical or specialized codes of Italian. the course also deals with issues such as the language of immigrants in Italy, minority languages in Italy, and Italian spoken outside Italy. Face-to-face, online and hybrid course. Effective January 2021.

### **ITAL4200 - Imagination and Literature in Italian Culture: An Interdisciplinary Perspective.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: ITAL 3035.*

The links between Italian literature and culture have been the subject of increasing interest in recent years, as writers and critics have attempted to bridge the gap between various areas of study. the aim is to explore through an interdisciplinary approach the Italian literature of various periods and to examine the development of these connections in the thought and work of Italy's greatest writers, from Calvino to Dante. In particular, we will see how literature and imagination complement each other in such a way that we almost imperceptibly manage to visualize and construct spaces through reading. Analysis, filmic interpretations or other artistic forms. This course will be offered face-to-face, hybrid and online modalities.

### **ITAL4216 - Advanced Study in Italian.**

*Three credits. Three hours of discussion per week Prerequisites: ITAL 3001-3002, 3023 OR 3011-3012, 3033.*

Development of communicative skills at an advanced level. the course content can vary each semester.

Theme: mafia discourse and anti-mafia discourse.

### **ITAL4995 - Variable Themes in Italian Language, Literature and Culture.**

*One to Three credits. Two hours of conference and one hour of discussion per week Prerequisites: ITAL 3035 OR EQUIVALENT.*

A course of variable themes and number of credits, which covers various aspects of the Italian language, literature of culture. Some examples of topics are: the history of the Italian language, introduction to Italian linguistics, the Italian dialects, methods of teaching Italian as a second language, applied linguistics, second and/or foreign language acquisition, instructional materials and activities for the classroom, evaluation strategies, new technologies and language teaching of Italian as a second language, the discourse of fascism, the discourse of the mafia, the literature of southern Italy, advanced themes of Italian grammar, among others. This course could be repeated up to a maximum of 6 credits under different topics.

### **JAPO3001 - Japanese I.**

*3 credits. Five hours of lecture per week.*

This course is an integral approach to learning all for functional skills (listening, oral expression, reading and writing) for beginners. It aims at achieving a global communicative competence, balancing precision, fluency, and complexity. the course introduces students to a unique culture in the world and brings them a strong basis for more advanced study. Face-to-face, hybrid and online course.

### **JAPO3002 - Japanese II.**

*Three credits. Three hours of lecture per week.*

Reading of elementary Japanese texts and study of Japanese grammar. Course face-to-face, hybrid and online modalities.

### **JAPO3003 - Intermediate Japanese I.**

*3 credits. Three hours of lecture per week Prerequisites: JAPO 3001-3002.*

Course designed for learners who have completed beginning-level studies. the course aims at building their proficiency of Japanese at the intermediate level across all four skill areas-listening, speaking, reading and writing-while also providing them with a deeper understanding of Japan and its culture. Face-to-face, hybrid and online course. Change in title before of: experimental Japanese

### **JAPO4216 - Advanced Study in Japanese.**

*Three credits. Three hours of lecture per week Prerequisites: JAPA 3001, 3002, 3003.*

Development of communicative skills at an advanced level. the course content can vary each semester. Change in prerequisite: JAPO 3003. Effective august 2021. Theme: intermediate Japanese II. Face-to-face, hybrid and online.

### **LATI3001 - Intensive Latin I.**

*Three credits. Five hours of lecture per week.*

Elementary course in Latin grammar and syntax. Word study and translation of texts.

### **LATI3002 - Intensive Latin II.**

*Three credits. Five hours of lecture per week.*

Elementary course in Latin grammar and syntax. Word study and translation of texts.

### **LATI3003 - Intensive Latin III.**

*Three credits. Three hours of lecture per week Prerequisites: LATI 3001-3002 OR ITS EQUIVALENT.*

Readings of Latin authors; analysis and explanation of selected texts. Practical exercises on Latin grammar and composition.

### **LATI3004 - Intensive Latin IV.**

*Three credits. Three hours of lecture per week.*

Study of the evolution of vulgar Latin since its beginnings to the fifth century a. D. Readings and discussion

texts.

### **LATI3015 - Classical Latin for Investigators I.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Introductory course for students with research foci or interests that require a basic knowledge of Latin. By reading and reviewing both original texts and texts adapted for pedagogical purposes, we will study notions of Latin grammars, as well as nominal and verbal morphology. We will thus emphasize vocabulary acquisition to read and analyze elementary texts, as well as consulting philological tools. Along with the study of grammar and morphology, we will examine selections of the work of some of the most important writers of the most important writers of ancient Rome, such as Cicero, Ovid, Quintilian and Seneca. Face-to-face, online and hybrid course.

### **LATI3016 - Classical Latin for Investigators II.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: LATI 3015, CLASSIC LATIN FOR INVESTIGATORS I.*

Continuation of LATI 3015, classical Latin for researchers I. It will focus on the study of grammatical structures of greater complexity through the reading of adapted original texts. In particular, it will seek to prepare the student in the handling of diverse strategies, tools and methods for the translation, commentary and analysis of Latin texts. This course will be offered in face-to-face, hybrid and online modalities.

### **LATI4005 - Independent Study in Classical or Medieval Latin.**

*Three credits. Three hours of independent study per week Prerequisites: LATI 3003 OR ITS EQUIVALENT. AUTHORIZATION OF THE PROFESSOR, ACADEMIC ADVISOR, AND THE DIRECTOR OF THE DEPARTMENT.*

*PRESENT TO THE DIRECTOR, THE SEMESTER PREVIOUS TO TAKE THE COURSE, A PROPOSAL OF THE THEME TO BE DEVELOPED FOLLOWING THE PROCEDURES ESTABLISHED BY THE DEPARTMENT.*

Guided research on Latin language (classic or medieval) concerning themes, theoretical proposals on specific problems in the discipline according to the student's personal interests. The course can be taken a maximum of three times (9 credits) on different themes.

### **LITE3011 - Modern and Contemporary Literature.**

*Three credits. Three hours of lecture per week.*

Survey of the best and most representative modern European literature from the XVI century until today, emphasizing genres (lyric, epic, novel, drama, etc.) and changing literary tradition (humanism, the baroque, neo-classicism, romanticism, realism, super-realism), with broad rational coverage. (c) this course will be offered face-to-face, hybrid and online modalities.

### **LITE3012 - Modern and Contemporary Literature.**

*Three credits. Three hours of lecture per week.*

Survey of the best and most representative modern European literature from the XVI century until today, emphasizing genres (lyric, epic, novel, drama, etc.) and changing literary tradition (humanism, the baroque, neo-classicism, romanticism, realism, super-realism), with broad rational coverage. (c) this course will be offered face-to-face, hybrid and online modalities.

### **LITE3013 - Literature and Cultures: from the Avant-garde to the Second Millennium.**

*Three credits. Two hours of lecture and one of discussion.*

The course proposes an approach to the topics, debates and literary texts representative of the complex diversity of cultures and literatures, both printed, visual and virtual from the avant-garde of the early twentieth century to the first decades of the second millennium. The course is aimed at students of the bachelor's degree in comparative literature, as well as students from other disciplines interested in the

subject. the course is an option to fulfill the core component of the comparative literature baccalaureate. Face-to-face, hybrid and online course. Effective January 2021

**LITE3014 - Literature and Cultures: Caribbean Studies.**

*Three credits. Two hours of lecture and one of discussion per week.*

This course presents the complex multicultural diversity of the Caribbean from its first representations to the 21st. Century studying its diversity through a comparative and interdisciplinary methodological approach. It addresses issues of aesthetics and representation, intercultural dialogue and explores how issues of coloniality and decolonization, race, gender and sexuality impact the creative expression of Caribbean writers and artists working within a variety of literary genres and cultural forms. the course will be a route that will travel through the different areas of the insular and continental Caribbean (Spanish, French, creole, Anglo and Dutch). Addressing their migrations and diasporas. the course is aimed at students of the bachelor's degree in comparative literature as well as students from other disciplines who are interested in the subject. the course is an option to fulfill the core component of the comparative literature baccalaureate. Face-to-face, online and hybrid course. Effective February 2021.

**LITE3045 - Introduction to Comparative Studies in Literature.**

*Three credits. Two hours of lecture and one of discussion per week.*

Required course which introduces the student to the basic elements of comparative studies in literature and research in the field. It is divided into three units: the first explores the scope of what is literary; the second, the history and development of the discipline, its main methods and debates; and the third, the basic protocols of literary research from the bibliographical search to the actual writing of an analytical essay. Face-to-face, online and hybrid course. Effective February 2021.

**LITE3051 - Classical Literature.**

*Three credits. Three hours of lecture per week.*

A survey of western literature to the fall of the roman empire, with some attention to the literature of the near east and Indian that influenced the development of western literature. the first semester ends with a study of Greek tragedy. (c)

**LITE3052 - Classical Literature.**

*Three credits. Three hours of lecture per week.*

A survey of western literature to the fall of the roman empire, with some attention to the literature of the near east and Indian that influenced the development of western literature. the first semester ends with a study of Greek tragedy. (c)

**LITE3061 - Medieval and Prerenaisance Literature.**

*Three credits. Three hours of lecture per week.*

Problems arising from the concept of medieval literature. Features that distinguish it from classical literature (Augustine, Boethius). Medieval literature in Latin. Formation of modern national literatures; genres and new elements that they introduce. Study of outstanding works: Beowulf, Chaucer, the song of Roland, le roman de la rose, Tristan and Isolde, Parsifal, the Nibelungenlied. the Italian trecento: Dante, Petrarch and Boccaccio. Literature of the humanistic period and the renaissance. This course will be offered face-to-face, hybrid and online modalities.

**LITE3062 - Medieval and Prerenaisance Literature.**

*Three credits. Three hours of lecture per week.*

Problems arising from the concept of medieval literature. Feature that distinguishes it from classical literature (Augustine, Boethius). Medieval literature in Latin. Formation of modern national literatures;

genres and new elements that they introduce. Study of outstanding works: Beowulf, Chaucer, the song of Roland, le roman de la rose, Tristan and Isolde, Parsifal, the Nibelungenlied. the Italian trecento: Dante, Petrarch and Boccaccio. Literature of the humanistic period and the renaissance. Face-to-face, online and hybrid course. Effective February 2021.

**LITE3081 - Workshop: Theory and Practice of Short Story.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OR PROFESSOR.* This one-year course aims to train present and future writers in the theory and practice of the short story. It will offer an historical account of the genre in the various occidental literatures (Spanish, Spanish-American, Italian, Russian, English and French) and an analysis of its formal and thematic evolution, with special emphasis on the present, variety of techniques and relations with other genres. the students' creative works will be read in seminar-type sessions.

**LITE3082 - Workshop: Theory and Practice of Short Story.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF PROFESSOR.* This one-year course aims to train present and future writers in the theory and practice of the short-story. It will offer an historical account of the genres in the various occidental literatures (Spanish, Spanish-American, Italian, Russian, English and French) and an analysis of its formal and thematic evolution, with special emphasis on the present, variety of techniques and relations with other genres. the students' creative works will be read in seminar-type sessions.

**LITE3095 - Currents of European Romanticism.**

*Three credits. Three hours of lecture per week.* Investigation of the sources and development of romanticism and it's spread throughout Europe.

**LITE3101 - Theory of Literature.**

*Three credits. Three hours of lecture per week.* This course will offer the student a careful and detailed analysis of modern and contemporary theories. the streams of literary and poetical criticism of our period and the preceding one. At the same time, it will give attention to current literary studies (analytical, aesthetical and comparative). Face-to-face, online and hybrid course. Effective February 2021.

**LITE3102 - Theory of Literature II.**

*Three credits. Prerequisites: LITE 3045, 3101.* This course will offer the student a careful and detailed analysis of modern and contemporary theories. the streams of literary and poetical criticism of our period and the preceding one. At the same time, it will give attention to current literary studies (analytical, aesthetical and comparative). Face-to-face, hybrid and online course. Effective January 2021. Change in title before theory of literature. Effective 2021.

**LITE4015 - Literature as A Source in Historical Research.**

*Three credits. Three hours of lecture per week.* Seminar course to develop skills in using literary sources in historical research and current historical methods in literary research. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2023.

**LITE4036 - the Novel in the Antilles: Myth and Reality.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.* A typology of the Antillean novel, based on a study of its language, myth and themes.

**LITE4037 - Literature and Medicine in the Middle Ages.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

This course will study literary and medical discourse and practice in the Middle Ages. It will focus on medieval literary representations of a variety of healing practices: medical, astrological, spiritual and others. Medieval and modern discourse on illness and healing will be contrasted, in order to encourage reflection upon the historical and cultural contexts surrounding medical knowledge and practice of different time periods and culture. This course will be offered face-to-face, hybrid and online modalities. Effective august 2023.

**LITE4046 - History and Epic Poetry.**

*Three credits. Three hours of lecture and discussion per week.*

A comparative study of the stages in the formation of social values in the west using epic poems as historical sources. 20-01-99

**LITE4056 - Humanities in Action.**

*Three credits. One hour a half of lectures and one hour a half of discussion per week.*

A seminar of diverse contents related to the analysis of audiovisual languages: film, television and performance: theatre, dance, visual arts, music, directed towards the critical reflection on the humanities and their significance in the contemporary world. Each time the seminar will focus on a different topic.

**LITE4080 - Genre Problems I: the Detective Story.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR OR TEACHER'S PERMISSION.*

This course offers an overview of the origins and development of the detective story from Poe to Borges, with special attention to issues of theory of narrative, genre, and structures. This course will be offered face-to-face, hybrid and online modalities. Effective august 2023.

**LITE4086 - The Comic Vision.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012.*

A study of the theory and practice of comedy in the modern drama and novel, including its themes, techniques, characters and ideological perspectives.

**LITE4105 - Analysis and Interpretation of Literary Texts.**

*Three credits. Three hours of workshop per week Prerequisites: ONE YEAR OF LITERATURE.*

Close readings of various examples illustrative of different genre.

**LITE4111 - Shakespeare, Racine, Calderon.**

*Three credits. Three hours of lecture per week.*

A comparative study of three great dramatics of the seventeenth century.

**LITE4121 - Love Themes in Italian Literature.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3051-3052, 3011-3012.*

A panoramic study of love themes in Italian literature, as they appear in poetry, drama, the novel, etc., from the first imitators of the provensal troubadours to the twentieth century.

**LITE4131 - Twentieth Century European Literature.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012.*

A thematic, formal study of principal authors, with special emphasis on radical social changes as reflected in literature. Face-to-face, online and hybrid course. Effective February 2021.

**LITE4132 - Twentieth Century European Literature.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012.*

A thematic, formal study of principal authors, with special emphasis on radical social changes as reflected in literature. Face-to-face, hybrid and online course. Effective January 2021.

**LITE4141 - Thomas Mann.**

*Three credits. Could be repeated, maximum of six*

Study and exegetical reading of Mann's principal work, including the stories and certain essays. Special attention will be given to the problem of the novelist and the artist in general in the twentieth century, as well as to other problems more peculiar to Mann, such as representation, neoclassicism, the introduction of myth into literature and irony.

**LITE4142 - Thomas Mann.**

*Three credits. Three hours of lecture per week.*

Study and exegetical reading of Mann's principal work, including the stories and certain essays. Special attention will be given to the problem of the novelist and the artist in general in the twentieth century, as well as to other problems more peculiar to Mann, such as representation, neoclassicism, the introduction of myth into literature and irony.

**LITE4152 - Mythology and Literature.**

*Three credits. Three hours of lecture per week.*

Texts and research.

**LITE4165 - The Literature of the Enlightenment.**

*Three credits. Three hours of lecture per week.*

Study of major representatives of the eighteenth-century enlightenment, including Voltaire, Diderot and the encyclopedists, Swift, Pope, Lessing and Rousseau.

**LITE4181 - Contemporary Trends in Literary Criticism.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OF PERMISSION OF THE DIRECTOR OF THE DEPARTMENT OF LITERATURE.*

Analysis of contemporary concepts of literature criticism and of the different methods applicable to literary studies, with a view to the integration of historical, psychological and aesthetic methods.

**LITE4182 - Contemporary Trends in Literary Criticism.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE DEPARTMENT OF LITERATURE.*

Analysis of contemporary concepts of literature criticism and of the different methods applicable to literary studies, with a view to the integration of historical, psychological and aesthetic methods. Face-to-face, online and hybrid course. Effective February 2021.

**LITE4191 - Contemporary Drama.**

*Three credits. Three hours of lecture per week.*

Thought and poetry in the modern European theater. the return to the mythical and religious realities in its themes and experimental techniques in dramaturgy and scenic interpretation. A study of the works of Claudel, Giraudoux, Cocteau, Anouilh, Sartre, Camus, Darlach, Kafka, Carrol, Auden and Isherwood, O'Neill, Elliot, Fry and others.

**LITE4192 - Contemporary Drama.**

*Three credits. Three hours of lecture per week.*

Thought and poetry in the modern European theater. the return to the mythical and religious realities in its themes and experimental techniques in dramaturgy and scenic interpretation. A study of the works of Claudel, Giraudoux, Cocteau, Anouilh, Sartre, Camus, Darlach, Kafka, Carrol, Auden and Isherwood, O'Neill, Eliot, Fry and others.

**LITE4201 - Antillean Literature.**

*Three credits. Three hours of lecture per week.*

Introduction to the literature of the Antilles. Comparative study of Antillean literature in Spanish, French and English, pointing out similarities and differences among the authors selected for study. Special attention will be given to the critical bibliography. Historical sources and analysis of the works studied.

**LITE4202 - Antillean Literature.**

*Three credits. Three hours of lecture per week.*

Introduction to the literature of the Antilles. Comparative study of Antillean literature in Spanish, French and English, pointing out similarities and differences among the authors selected for study. Special attention will be given to the critical bibliography. Historical sources and analysis of the works studied. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2022.

**LITE4211 - the Experimental Novel.**

*Three credits. Three hours of lecture per week.*

A study of the development of the avant-garde novel during the last twenty years, emphasizing developments in France, Spain, Italy and Hispano-America.

**LITE4225 - Negro Poetry: Forms and Structures.**

*Three credits. Three hours of lecture per week Prerequisites: LITE.3011-3012 OR PERMISSION OF THE PROFESSOR.*

The impact of the black experience on poetry and its consequences in poetic language forms and literary structures.

**LITE4226 - Renaissance Poetry: The Sonnet.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012.*

A study of structure and themes of the Petrarchan sonnet the canzoniere and of its imitators in Italy, France, Spain and England. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2022.

**LITE4241 - Comparative Literature Seminar.**

*LITE4241 - Comparative Literature Seminar.*

Seminar course that analyzes comparative literature's history, questions and debates. It also studies a topic, approach, genre or period, structured and analyzed according to a comparatist perspective. Both aspects prepare the student to elaborate a comparatist working hypothesis and a proposal that are the basis for his or her undergraduate senior essay.

**LITE4242 - Comparative Literature Seminar.**

*LITE4242 - Comparative Literature Seminar.*

In the second half of this course, the student is expected to apply the knowledge and skills acquired in his or her comparative literature courses, especially those that were emphasized in the first half of the course. This training will inform the elaboration of the senior essay. the final graduation requirement.

**LITE4245 - Evolution of the Ancient Novel.**



*Three credits. Three hours of lecture per week Prerequisites: LITE 3011 AND LITE 3012.*

Survey course dealing with the ancient Graeco-Roman novel, its narremes, themes, technique socio-cultural milieu, its public, and its role in the development of later narrative forms, from the middle ages to the present. Delve into literary as well as film narrative forms. 08-16-99

**LITE4255 - Symbolist Movements in Modern Poetry.**

*Three credits. Three hours of lecture per week.*

Origins, masters and theory of French symbolism, its influence throughout Europe. This course will be offered face-to-face, hybrid and online modalities. Effective august 2023.

**LITE4265 - Literature and Colonialism in the Americas.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012 OR PERMISSION OF THE PROFESSOR.*

The impact of colonization on the literature of the colonizers and colonized in America, with special interest in the Antilles, from the discovery to our present time.

**LITE4275 - Hero and Anti-hero: Evolution of the "modern" Man.**

*Three credits. Three hours of lecture per week.*

The literary development of the ambiguous, contradictory and complex personality of "modern" man in the European literature of the 17th and 18th centuries.

**LITE4281 - the Renaissance in the Literature of the Renaissance.**

*Three credits. Three hours of lecture per week.*

A search for the thinking process of renaissance man about himself and his own achievement, as reflected in Italian, Portuguese and Spanish literatures of the 15th, 16th, and 17th centuries.

**LITE4282 - the Renaissance in the Literature of the Renaissance.**

*Three credits. Three hours of lecture per week.*

A search for the thinking process of renaissance man about himself and his own achievement, as reflected in Italian, Portuguese and Spanish literatures of the 15th, 16th, and 17th centuries.

**LITE4285 - Marriage, Love and Violence in Early Modern Europe.**

*Three credits. Three hours of lecture per week.*

A study of marriage and pre-modern love expressions and its relationship with power and violence in medieval, renaissance and baroque texts.

**LITE4295 - Literary Research: Socio-semiolinguistic Aspects of Narrative.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012 OR PERMISSION OF THE PROFESSOR.*

Theoretical analysis of literary research based in the contributions of: Benveniste, Todorov, Lotman, Hendricks, Van dijk, Prott, Petosi. the analysis adjourns linguistics and literature with sociology, psychology, and anthropology.

**LITE4301 - Nineteenth Century Drama from Classicism to Naturalism.**

*Three credits. Three hours of lecture per week.*

A view of the major literary and philosophical trends in 19th century European drama, from Goethe's gotz von Berlichingen to Strindberg's ghost sonata.

**LITE5005 - the Baroque Theater.**

*Three credits. Three hours of lecture per week Prerequisites: FOURTH YEAR STUDENTS OR GRADUATE STANDING WITH PERMISSION OF THE DIRECTOR.*

Interdisciplinary study of the major English, Spanish, French, German dramatic texts of the xvii century as well as descriptions of the relevant spectacles.

**LITE5006 - the Modern Short Story.**

*Three credits. Three hours of lecture per week Prerequisites: FOR BACHELOR AND MASTER DEGREE STUDENTS WITH AUTHORIZATION OF THE DIRECTOR.*

A study of the evolution of the short story in theory and practice. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2022.

**LITE5007 - Post-Brechtian Theater: Theory, Texts and Staging.**

*Three credits. Three hours of lecture per week.*

Study of the theory and important works of the German playwright Bertolt Brecht and their influence on contemporary theater.

**LITE5008 - Boccaccio, Hita, Chaucer.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3061-3062 OR PERMISSION OF THE DIRECTOR.*

A comparative study of the three most important short narrative collection of the late Middle Ages, Il Decameron, el libro de buen amor, the canterbury tales in their social and literary contexts. Face-o-face, online and hybrid course. Effective February 2021.

**LITE5036 - Writing Private Shame.**

*Three credits. One hour and a half of conference and one hour and a half of discussion per week Prerequisites: LITE3011, LITE3012, LITE3101 OR PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Lecture and discussion course for advanced undergraduate and graduate students about an interdisciplinary topic of great interest for the humanities: the writing of private shame. After a short presentation of traditional shame, we will analyze, with the help of key essays on the concepts of shame and guilt works of world literature (autobiographies, dramas, novels, short stories, and films) in which writing a private sense of shame is -explicitly or implicitly- a core issue.

**LITE5038 - Medieval Epic Poetry: Problems of Content and Form.**

*Three credits. Three hours of lecture per week.*

Comparative study of the Iliad, Odyssey, Aeneid, and the most famous medieval epic poems. This course will be offered face-to-face, hybrid and online modalities. Effective august 2022.

**LITE5040 - Themes of the Narrative: The Middle Ages.**

*Three credits. Three hours of lecture per week.*

Study of the most representative texts of the different narrative cycles in the Middle Ages. Emphasis on the Breton cycle.

**LITE5045 - Roman Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FOR BACHELOR OR MASTER DEGREE STUDENTS WITH AUTHORIZATION OF THE DIRECTOR OF THE DEPARTMENT.*

the development of roman literature from its beginnings until Cornelius Tacitus.

**LITE5046 - Homer and Virgil.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3051-3052 OR 3061-3062 OR 3011-3012.*

Comparative analysis and interpretation of Homer and Virgil's epic poetry, in its cultural context.

**LITE5047 - Greek Tragedy.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3051-3052.*

Study of the birth, the evolution, the content, and forms of Greek tragedy through its three great masters: Aeschylus, Sophocles, Euripides.

**LITE5055 - Moliere and the Comic Tradition.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

A comparative study of Moliere's comedies and the great classic comedians, Aristophanes, Plautus and Terence.

**LITE5065 - From Manuscript to Edition: Problems and Methods.**

*Three credits. Three hours of lecture per week Prerequisites: FOR BACHELOR OR MASTER DEGREE STUDENTS WITH AUTHORIZATION OF THE DIRECTOR OF THE DEPARTMENT.*

Introduction to the problems and methods in the study of literary manuscripts and special editions. There are two main aspects: one critical and theoretical; the other, practical. Each year the instructor and the students will choose one or two problems and will work together in the preparation of an anthology, an annotated edition, letters, bilingual editions, etc.

**LITE5066 - Literary Semiotics I: Semiotics of Narration.**

*Three credits. Three hours of lecture per week.*

Introduction to the methodology and analytical practice of one of the branches of literary semiotics, semiotics of narration, through the study of its most representative authors: v. Propp, c. Bremond, r. Barthes, t. Todorov, u. Eco, a. J. Greimas, t. Van Dijk.

**LITE5067 - Literary Semiotics II: Post-structuralist Orientations.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 5066 OR LITE 3101.*

Introduction to the methodology and analytical practice of some of the most outstanding manifestations of the past decade in the field of literary semiotics through the study of its most representative authors: Roland Barthes, m. Bakhtin, j. Lacan, j. Kristeva, j. Derrida, b. Johnson, g. Hartman.

**LITE5075 - Colonial Representations.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012, LITE 3101 AND PERMISSION OF THE DIRECTOR.*

A study and analysis of the representation of colonial identity in European and American texts. Face-to-face, hybrid and online course. Effective January 2021. Change in prerequisites: lite 3045, 3101 and permission of the director. Effective for January 2021.

**LITE5076 - Post-colonial Cultural Representation.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012 AND LITE 3101.*

Interdisciplinary study of the effect of colonialism in the literary and filmic production of third world cultures.

**LITE5105 - Mythology and Literature.**

*Three credits. Three hours of lecture per week.*

Texts and research.

**LITE5231 - Modern Novel.**

*Three credits. Three hours of lecture per week.*

Study and analysis of this literary genre from Balzac to the present.

**LITE5232 - Modern Novel.**

*Three credits. Three hours of lecture per week.*

Study and analysis of this literary genre from Balzac to the present.

**LITE5305 - Autobiographical Writing: the "i" in Western Narrative.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Examination of various manifestations of first-person narrative in western literature. Different literary genres such as autobiography letters, diaries, memoirs, testimonial literature, and other so called "minor texts" are analyzed from a perspective which takes into account current theoretical debates on the subject. Primary and secondary material are used. Face-to-face, hybrid and online course. Effective January 2021. Change prerequisites: lite 3045, 3101. Effective for January 2021.

**LITE5335 - Aspects of Women's Writing.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Comparative study of theories of women writing and of text written by European, North American and Latin American women writers.

**LITE5486 - San Juan De La Cruz, Occidental Tradition and Semitic Tradition.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A comparative study of San Juan de la cruz and medieval and renaissance European poetry; Hebrew and Christian biblical exegesis; koranic exegesis and Arabic poetry.

**LITE5487 - San Juan De La Cruz, Occidental Tradition and Semitic Tradition.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

A comparative study of San Juan de la Cruz and medieval and renaissance European poetry; Hebrew and Christian biblical exegesis; koranic exegesis and Arabic poetry.

**MUSI3011 - Survey of Music History I.**

*3 credits. Two hours of lecture and one hour of laboratory per week Prerequisites: MUSI 3275.*

A survey of musical styles and schools emerged and developed in western music from medieval age to the 20th century. Part I. This course is an option to fulfill the music history component of the music education major at the college of education. It will be offered face-to-face, hybrid and online modalities.

**MUSI3012 - Survey of Music History II.**

*3 credits. Two hours of lecture and one hour of laboratory per week Prerequisites: MUSI 3115, MUSI 3011.*

A survey of musical styles and schools emerged and developed in western music from medieval age to the 20th century. Part II. This course is an option to fulfill the music history component of the music education major at the college of education. It will be offered in face-to-face, hybrid and online modalities.

**MUSI3035 - Music and Recreational Activity.**

*Three credits. Two hours of lecture and one of laboratory work per week.*

A study of the different aspects of the individual's musical education, such as song, rhythm, instrumental and listening experiences. Techniques for the development of the musical education of the community through recreational activity.

**MUSI3047 - Dance and Music.**

*Three credits. Three hours of lecture per week.*

An historical survey of dance in its various forms: Ballet, folk, modern, religious. The influence of dance on musical styles. The course also includes as a practical component, the study and analysis of dance music in terms of the following aspects: rhythm, melody, phrasing and counting of beats. Criteria for the identification of appropriate music for different dance genres will also be considered.

### **MUSI3055 - Opera.**

*Two credits. Two hours per week.*

A survey of representative opera from various periods and in various styles. Particular concentration on those works which are in the standard operatic repertory. Illustrated by recordings.

### **MUSI3065 - Music in the Americas.**

*3 credits. Three hours of lecture per week.*

General survey of the musical will be illustrated by audiovisual means and by live performers. This course is an option to fulfill the core component of general education. In addition, it could serve as an elective for the music majors of the college of humanities. Face-to-face, hybrid and online course

### **MUSI3071 - Smaller Vocal Ensemble I.**

*One credits. Four hours of lecture per week Prerequisites: PASS AN AUDITION BEFORE THE PARTICULAR ENSEMBLE'S DIRECTOR.*

Regular participation in one of the following university ensembles: concert chorus; choralis sine nomine; lyric theater studio. Public performance of the corresponding repertoires. Face-to-face, hybrid and online course. Effective August 2020. Contact hours change to two hours of lecture per week. Effective August 2020.

### **MUSI3072 - Smaller Vocal Ensemble II.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 3071.*

Regular participation in one of the following university ensembles: concert chorus; choralis sine nomine; lyric theater studio. Public performance of the corresponding repertoires.

### **MUSI3073 - Smaller Vocal Ensemble III.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 3072.*

Regular participation in one of the following university ensembles: concert chorus; choralis sine nomine; lyric theater studio. Public performance of the corresponding repertoires.

### **MUSI3074 - Smaller Vocal Ensemble IV.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 3073.*

Regular participation in one of the following university ensembles: concert chorus; choralis sine nomine; lyric theater studio. Public performance of the corresponding repertoires.

### **MUSI3075 - Vocal Technique I.**

*One credits. Half hour of lecture and half hour of laboratory work Prerequisites: MUSI 3025.*

Individual teaching of vocal skills (reading, vocalization, and voice placement) and of phrasing and style that apply to the classical repertoire of art song, opera and oratorio. Course face-to-face, hybrid and online modalities.

### **MUSI3081 - Smaller Instrumental Ensemble I.**

*One credits. Two hours of lecture per week Prerequisites: PASS AN AUDITION BEFORE THE PARTICULAR ENSEMBLE'S DIRECTOR.*

Regular participation in one of the following university instrumental ensembles: collegium musicum; jazz and

popular music ensemble; brass ensemble; woodwind ensemble; percussion ensemble; university chamber orchestra. Public performance of the corresponding repertoires. Course face-to-face, hybrid and online modalities.

#### **MUSI3082 - Smaller Instrumental Ensemble II.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 3081.*

Regular participation in one of the following university instrumental ensembles: collegium musicum; jazz and popular music ensemble; brass ensemble; woodwind ensemble; percussion ensemble; university chamber orchestra. Public performance of the corresponding repertoires.

#### **MUSI3083 - Smaller Instrumental Ensemble III.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 3082.*

Regular participation in one of the following university instrumental ensembles: collegium musicum; jazz and popular music ensemble; brass ensemble; woodwind ensemble; percussion ensemble; university chamber orchestra. Public performance of the corresponding repertoires.

#### **MUSI3084 - Smaller Instrumental Ensemble IV.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 3083.*

Regular participation in one of the following university instrumental ensembles: collegium musicum; jazz and popular music ensemble; brass ensemble; woodwind ensemble; percussion ensemble; university chamber orchestra. Public performance of the corresponding repertoires.

#### **MUSI3085 - Instrumental Technique I.**

*One credits. Half hour of lecture and half hour of laboratory work per week Prerequisites: MUSI 3025.*

Individual teaching of the technique, phrasing style and repertoire of instruments such as the piano, the woodwinds, brass and strings. (c) course face-to-face, hybrid and online modalities.

#### **MUSI3095 - Music of the World.**

*3 credits. Three hours of lecture per week.*

A survey of some of the principal types of world music, including tribal folk and popular music. Musical forms instruments and aesthetics are investigated with an emphasis on the relationship of music to the cultures of Asia, Africa and Europe. This course is an option to fulfill the art component of general education. In addition, it could serve as an elective for the music majors of the college of humanities. Course face-to-face, hybrid and online modalities.

#### **MUSI3105 - Twentieth Century Music.**

*3 credits. Three hours of lecture per week Prerequisites: MUSI 3235 AND MUSI 3145.*

A study of the many styles and schools which have been developed in western music during the twentieth century. Face-to-face, online and hybrid course. Face-to-face, hybrid and online course

#### **MUSI3115 - Diatonic Harmony.**

*Four credits. Four hours of lecture per week Prerequisites: MUSI 3025.*

A practical and analytical study of the harmonic vocabulary of the 18th century with special emphasis on the harmonization of choral melodies in the style of Bach and in the analysis of works in the classical style of Mozart and Haydn. Course face-to-face, hybrid and online modalities. Change the prerequisites: MUSI 3275, effective august 2023, change corequisite: MUSI 4003 and MUSI 461. Effective august 2023.

#### **MUSI3125 - The Historical Development of Music in Puerto Rico.**

*3 credits. Three hours of lecture per week.*

A general music course emphasizing the socio-cultural outlook of music in Puerto Rican society from Spanish colonial times to the present. Different types of music, both recorded and live, will be heard for purposes of appreciation and analysis from historical, ethnomusicological and aesthetical points of view. This course is an option to fulfill the core component of general education. In addition, it could serve as an elective for the music majors of the college of humanities. It is a core component of music education of the college of education.

**MUSI3145 - Introduction to the Repertory of Musical Arts.**

*3 credits. Three hours of lecture per week.*

Introductory course to music directed to develop the necessary skills that allows the student to listen and appreciate music through the study of its basic constitutive elements. the course includes an overview of the history of music, the styles and the most representative works of each period.

**MUSI3175 - Introduction to Ear Training and Sight Singing.**

*Three credits. Three hours of lecture per week.*

Introductory course in which the fundamentals of music theory, ear training and sight singing are studied. (c) course face-to-face, hybrid and online modalities.

**MUSI3176 - Introduction to Ear Training and Sight Singing II.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 3175.*

Teaching of basic musical theory, reading, singing and ear training as started in MUSI 3175. (c) course face-to-face, hybrid and online modalities.

**MUSI3181 - Band I.**

*One credits. Play a band instrument and sight-reading.*

One credits. Play a band instrument and sight-reading.

**MUSI3182 - Band II.**

*One credits. Play a band instrument and sight-reading.*

One credits. Play a band instrument and sight-reading.

**MUSI3183 - Band III.**

*One credits. Prerequisites: MUSI 3181-3182.*

Participation in the symphonic band of the university of Puerto Rico. Performance of traditional and contemporary repertoire. Admission by audition with director of the symphonic band.

**MUSI3184 - Band IV.**

*One credits. Prerequisites: MUSI 3181-3182.*

Participation in the symphonic band of the university of Puerto Rico. Performance of traditional and contemporary repertoire. Admission by audition with director of the symphonic band.

**MUSI3201 - Chorus I.**

*One credits. Two hours per week plus special rehearsals per week Prerequisites: CANDIDATES MUST BE INTERVIEWED BY THE DIRECTOR OF THE CHORUS.*

the class is organized as a mixed voice chorus for "a capella" singing. Study and performance of choral works in several languages. Secular, religious and folk songs. Course face-to-face, hybrid and online modalities.

**MUSI3202 - Chorus II.**

*One credits. Two hours per week plus special rehearsals per week Prerequisites: CANDIDATES MUST BE*

*INTERVIEWED BY THE DIRECTOR OF THE CHORUS.*

The class is organized as a mixed voice chorus for "a capella" singing. Study and performance of choral works in several languages. Secular, religious and folk songs.

**MUSI3203 - Chorus III.**

*One credits. Two hours of lecture and special rehearsals per week.*

A continuation of MUSI 3201-3202.

**MUSI3204 - Chorus IV.**

*One credits. Two hours of lecture and special rehearsals per week.*

A continuation of MUSI 3201-3202.

**MUSI3211 - Chorus V.**

*One credits. Two hours of lecture and special rehearsals.*

Continuation of chorus (MUSI 3203-3204).

**MUSI3212 - Chorus Vi.**

*One credits. Two hours of lecture and special rehearsals.*

Continuation of chorus (MUSI 3203-3204).

**MUSI3235 - Music Appreciation.**

*Two credits. Two hours of lecture per week.*

Music as a source of enjoyment through lectures, records and actual playing. the student will be exposed to folk and art songs, fugue, sonata, symphony and other forms of musical composition. (c)

**MUSI3275 - Sight Reading and Dictation I.**

*3 credits. Three hours of lecture per week Prerequisites: MUSI 3176 OR UBICATION TEST. Corequisites: MUSI 3276.*

Intensive study of the essential elements of music by means of drills in theory, solfège and ear-training. This course will be offered face-to-face, hybrid and online modalities.

**MUSI3276 - Basic Piano I.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 3176 OR DOMINION OF THE MATERIAL SHOWN THROUGH THE EXAM GIVEN BY THE DEPARTMENT PROFESSOR'S COMMITTEE. CO-REQUISITE*

Harmonization using primary chords, basic chord progressions (tonic, subdominant, dominant) major scales, improvisation, sight-reading and repertoire. Course is focused for music students with little or no experience playing the piano. its methodology includes conferences and practice of keyboard skills. Course face-to-face, hybrid and online modalities. 08-16-99

**MUSI4003 - Basic Piano II.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 3276. CO-REQUISITE*

Development of the skills of basic piano i up to an intermediate level. Includes the study and improvement of major and minor scales, seventh chords, harmonization using mainly primary and secondary chords, sightreading, improvisation, ecclesiastical modes and other scales, and repertoire. its methodology includes conferences and practice of keyboard skills. Face-to-face, hybrid and online course 08-16-99

**MUSI4004 - Basic Piano III One Credit. Two Hours of Workshop Per Week. Prerequisites: Musi.**

*4003. credits.*

Development of the skills learned in basic piano ii and the expansion of the same in the areas of technique,



repertoire, sight reading, harmonization, and improvisation. Thirty hours workshop experience. This course will be offered in face-to-face, hybrid and online modalities.

#### **MUSI4005 - Basic Piano IV.**

*One credits. Two hours of workshop per week Prerequisites: MUSI 4004.*

Development of the skills learned in basic piano iii and the expansion of the same in the areas of technique, repertoire, sight reading, harmonization, and improvisation. Thirty hours workshop experience. This course will be offered in face-to-face, hybrid and online modalities.

#### **MUSI4015 - Baroque and Classical Music.**

*3 credits. Three hours of lecture per week, and supervised audition Prerequisites: MUSI 3275.*

History of the music of the 17th and 18th centuries with special attention to the analysis of selected masterworks. the course will be illustrated by audiovisual means and will be required of all music majors. Face-to-face, online and hybrid course.

#### **MUSI4025 - Romantic and Impressionistic Music.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 4015.*

Study of the music of the 19th and 20th centuries with special attention to the analysis of selected masterworks. the course will be illustrated by audiovisual means and will be required of all music majors. (c) course face-to-face, hybrid and online modalities.

#### **MUSI4035 - Medieval and Renaissance Music.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 3025 AND 4025.*

Study of music from Gregorian chant to the English madrigals, with special attention to the analysis of selected masterworks. Course illustrated by audiovisual means and will be required for all music majors. Course face-to-face, hybrid and online modalities.

#### **MUSI4041 - Smaller Vocal Ensemble V.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 3074.*

Regular participation in one of the following university ensembles: concert chorus; choralis sine nomine; lyric theater studio. Public performance of the corresponding repertoires.

#### **MUSI4042 - Smaller Vocal Ensemble VI.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 4041.*

Regular participation in one of the following university ensembles: concert chorus; choralis sine nomine; lyric theater studio. Public performance of the corresponding repertoires.

#### **MUSI4043 - Smaller Vocal Ensemble VII.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 4042.*

Regular participation in one of the following university ensembles: concert chorus; choralis sine nomine; lyric theater studio. Public performance of the corresponding repertoires.

#### **MUSI4044 - Smaller Vocal Ensemble VIII.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 4043.*

Regular participation in one of the following university ensembles: concert chorus; choralis sine nomine; lyric theater studio. Public performance of the corresponding repertoires.

#### **MUSI4045 - Vocal Technique II.**

*One credits. Half hour of lecture and half hour of laboratory work Prerequisites: MUSI 3025.*

Individual teaching of vocal skills (reading, vocalization, and voice placement) and of phrasing and style that apply to the classical repertoire of art song, opera and oratorio.

**MUSI4055 - Instrumental Technique II.**

*One credits. Half hour of lecture and half hour of laboratory work Prerequisites: MUSI 3025.*

Individual teaching of the technique, phrasing style and repertoire of instruments such as the piano, the woodwinds, brass and strings.

**MUSI4061 - Sight Reading and Dictation II.**

*3 credits. Three hours of lecture per week Corequisites: MUSI 4003, MUSI 3115.*

Intensive study of the essential elements of music by means of drills in theory, solfège and ear-training. Part two. This course will be offered in face-to-face, hybrid and online modalities.

**MUSI4062 - Sight Reading and Dictation III.**

*3 credits. Two hours of lecture and one hour of laboratory per week Prerequisites: MUSI 4061.*

Intensive study of the essential elements of music by means of drills in theory, solfège and ear-training. Part three. This course will be offered in face-to-face, hybrid and online modalities.

**MUSI4063 - Sight Singing and Dictation IV.**

*Two credits. Two hours of lecture per week Prerequisites: MUSI 4062.*

A fourth semester of theory involving sight-singing, and advanced melodies-harmonic dictation. Recommended for music majors.

**MUSI4071 - Chorus VII.**

*One credits. Two hours of lecture and special rehearsals per week.*

A continuation of the chorus iii (MUSI 3211-3212).

**MUSI4072 - Chorus VIII.**

*One credits. Two hours of lecture and special rehearsals per week.*

A continuation of the chorus iii (MUSI 3211-3212).

**MUSI4081 - Smaller Instrumental Ensemble V.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 3084.*

Regular participation in one of the following university instrumental ensembles: collegium musicum; jazz and popular music ensemble; brass ensemble; woodwind ensemble; percussion ensemble; university chamber orchestra. Public performance of the corresponding repertoires.

**MUSI4082 - Smaller Instrumental Ensemble VI.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 4081.*

Regular participation in one of the following university instrumental ensembles: collegium musicum; jazz and popular music ensemble; brass ensemble; woodwind ensemble; percussion ensemble; university chamber orchestra. Public performance of the corresponding repertoires.

**MUSI4083 - Smaller Instrumental Ensemble VII.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 4082.*

Regular participation in one of the following university instrumental ensembles: collegium musicum; jazz and popular music ensemble; brass ensemble; woodwind ensemble; percussion ensemble; university chamber orchestra. Public performance of the corresponding repertoires.

**MUSI4084 - Smaller Instrumental Ensemble VIII.**

*One credits. Two hours of lecture per week Prerequisites: MUSI 4083.*

Regular participation in one of the following university instrumental ensembles: collegium musicum; jazz and popular music ensemble; brass ensemble; woodwind ensemble; percussion ensemble; university chamber orchestra. Public performance of the corresponding repertoires.

**MUSI4085 - Musicological Bibliography.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 4035,3115 AND 4105.*

A survey of the bibliographical tools of musicological research, such as monumental editions, complete works, facsimiles, thematic indices, catalogues, etc., and of their principal editorial procedures of special interest to those who will follow graduate studies in musicology.

**MUSI4105 - Modal Counterpoint.**

*2 credits. Two hours of lecture and one hour of laboratory per week Prerequisites: MUSI 3115 AND MUSI 4025.*

Study of the modal counterpoint of the 16th century (Palestrina style). Exercises in double and triple counterpoint. Study of the different techniques of imitation, inversion, retrograde motion, augmentation, diminution, etc. It will be required of all music majors. Face-to-face, online and hybrid.

**MUSI4115 - Tonal Counterpoint.**

*Two credits. Two hours of lecture and one hour of laboratory work per week Prerequisites: MUSI 4105.*

Study of the tonal-harmonic counterpoint of the 18th century (in Bach style). Face-to-face, online and hybrid course. Effective February 2021.

**MUSI4121 - Vocal Technique III.**

*One credits. Half hour of lecture and half hour of laboratory work Prerequisites: MUSI 3025.*

Individual teaching of vocal skill (reading, vocalization, and voice placement) and of phrasing and style that apply to the classical repertoire of art song, opera and oratorio.

**MUSI4122 - Vocal Technique IV.**

*One credits. Half hour of lecture and half hour of laboratory work Prerequisites: MUSI 3025.*

Individual teaching of vocal skills (reading, vocalization, and voice placement) and of phrasing and style that apply to the classical repertoire of art song, opera and oratorio.

**MUSI4131 - Instrumental Technique III.**

*One credits. Half hour of lecture and half hour of laboratory work Prerequisites: MUSI 3025.*

Individual teaching of the technique phrasing style and repertoire of instruments such as the piano, the woodwinds, brass and strings.

**MUSI4132 - Instrumental Technique IV.**

*One credits. Half hour of lecture and half hour of laboratory work Prerequisites: MUSI 3275.*

Individual teaching of the technique, phrasing style and repertoire of instruments such as the piano, the woodwinds, brass and strings.

**MUSI4133 - Instrumental Techniques V.**

*One credits. Half hour of lecture and half hour of laboratory work per week Prerequisites: MUSI 4132.*

Individual teaching of the technique, phrasing style and repertoire of instruments such as the piano, the woodwinds, brass and strings, acknowledge by the western tradition of concert music.

**MUSI4134 - Instrumental Technique VI.**

*One credits. Half hour of lecture and half hour of laboratory work per week Prerequisites: MUSI 4133.*  
Individual teaching of the technique, phrasing style and repertoire of instruments such as the piano, the woodwinds, brass and strings, acknowledge by the western tradition of concert music.

**MUSI4141 - Instrumental Technique VII.**

*One credits. One hour of laboratory per week Prerequisites: MUSI 4134.*  
Individual training in the principles of technique, phrasing, style and repertoire of some recognized instrument in western concert music.

**MUSI4142 - Instrumental Technique VIII.**

*One credits. One hour of laboratory work per week Prerequisites: MUSI 4141.*  
Individual training in the principles of technique phrasing, style and repertoire of some recognized instrument in western concert music. the last course in a sequence which begins with music 3085.

**MUSI4151 - Vocal Technique V.**

*One credits. Prerequisites: MUSI 3075, 4045, 4121, 4122*  
Individual training in the principles of technique, phrasing, style and vocal repertoire. It is the fifth course of a sequence which starts with 3075, and continues with MUSI 4045, 4121 and 4122.

**MUSI4152 - Vocal Technique VI.**

*One credits. Prerequisites: MUSI 3075, 4045, 4021, 4122*  
Individual training in the principles of technique, phrasing, style and vocal repertoire. It is the sixth course of a sequence which starts with MUSI 3075 and continues with 4045, 4121, 4122, 4151.

**MUSI4153 - Vocal Technique VII.**

*One credits. Prerequisites: MUSI 3075, 4045, 4121, 4122*  
Individual training in the principles of technique, phrasing, style and vocal repertoire. It is the seventh course of a sequence which starts with MUSI 3075 and continues with MUSI 4045, 4121, 4122, 4151, 4152.

**MUSI4154 - Vocal Technique VIII.**

*One credits. Prerequisites: MUSI 3075, 4045, 4121, 4122*  
Individual training in the principles of techniques, phrasing, style and vocal repertoire. It is the eighth course of a sequence which starts with MUSI 3075 and continues with MUSI 4045, 4121, 4122, 4151, 4152, 4153.

**MUSI4155 - Introduction to Instrumentation.**

*Two credits. Two hours of lecture per week and one hour of supervised audition Prerequisites: MUSI.3115.*  
A study of musical instruments in general, aimed at training the student's ear to recognize their particular sounds and their special effects. A study of their problems of notation. the course will be required in the bachelor in music program and will be illustrated by audio-visual means and live performers.

**MUSI4161 - Orchestration I.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 3115, 4155.*  
A practical study of the problems of instrumental arrangement through a series of graded written exercises of progressive difficulty. These will cover from small ensembles to the full sections of the orchestra.

**MUSI4162 - Orchestration II.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 4161.*  
A continuation of music 4161 (orchestration I) with exercises leading tip to the preparation of a complete

orchestral score.

**MUSI4175 - Choral Conduction and Vocal Repertoire.**

*Four credits. Four hours of lecture per week Prerequisites: MUSI 3025 AND 3115.*

An intensive study of the vocal and musical techniques needed for the organization of school choirs. Face-to-face, online and hybrid course. Effective February 2021. 20-01-98

**MUSI4177 - Instrumental Conducting and Score Reading.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 4001, 4045, 4055 AND 4155.*

Techniques and tradition in the conducting of instrumental group. Detailed study of terminology, transpositions and instrumental notation in both traditional groups.

**MUSI4185 - Band V.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 4185.*

Participation in the symphonic band of the university of Puerto Rico. Performance of traditional and contemporary repertory.

**MUSI4186 - Band VI.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 4185.*

Participation in the symphonic band of the university of Puerto Rico. Performance of traditional and contemporary repertory.

**MUSI4187 - Band VII.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 4186.*

Participation in the symphonic band of the university of Puerto Rico. Performance of traditional and contemporary repertory.

**MUSI4188 - Band VIII.**

*One credits. Four hours of lecture per week Prerequisites: MUSI 4187.*

Participation in the symphonic band of the university of Puerto Rico. Performance of traditional and contemporary repertory.

**MUSI4195 - Chromatic Harmony.**

*3 credits. Two hours of lecture and one hour of laboratory per week Prerequisites: MUSI 3115.*

A practical and analytical study of the harmonic vocabulary of the romantic era. Projects in harmonization of melodies typical of that style and analysis of works chosen from Schubert to Wagner. This course will be offered face-to-face, hybrid and online modalities.

**MUSI4200 - Phenomenology of Popular Music.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: MUSI 3275, MUSI 3115.*

This course analyzes philosophical, theoretical and historical aspects of music as a subjective expression. Considered as an elective course for music education majors. It will be offered in face-to-face, hybrid and online modalities.

**MUSI4201 - Chamber Music.**

*One credits. One hour of workshop per week Prerequisites: MUSI 3075, MUSI 3085.*

Chamber music is a broad term which encompasses groups that goes from a single performer up to musical works such as Bach's Brandenburg concertos or Schonberg's first chamber symphony. the general meaning

of the term refers to music for several combinations where it is assigned only one instrument per part and whose extension does not go beyond a nonet. This course will provide the opportunity to agglutinate singers and performers of musical instruments in different combinations from duets to nonets. This course will be offered in face-to-face, hybrid and online modalities.

### **MUSI4205 - Modal Harmony.**

*Two credits. Two hours of lecture and one hour of laboratory work per week.*

A practical and analytic study of the harmonic vocabulary of the post romantic and impressionist movements from Moussorgsky to Bartok. Harmonization of melodies in those styles and analysis of selected masterwork.

### **MUSI4215 - Seminar in Form and Analysis.**

*One credits. One hour of lecture per week Prerequisites: REQUIRED FOR THE MAJOR IN MUSIC.*

Analytic study of rhythm, melody phrase, period, motive and structure beginning with the small forms and including the great instrumental forms of the 18th and 19th centuries. Composition techniques and stylistic differences.

### **MUSI4216 - Compositional Technique.**

*One credits. One hours of independent study per week Prerequisites: MUSI 4251, MUSI 3115, MUSI 4195.*

This course is similar to that of instrumental or vocal techniques in the sense that it is individual. the student will approach, every semester, a type of compositional procedure, culminating in a short composition employing this procedure. Each semester will deal with a different compositional procedure. This course will be offered in face-to-face, hybrid and online modalities. New description begins on august 2021.

### **MUSI4225 - Seminar in Form and Analysis.**

*One credits. One hour of lecture per week Prerequisites: REQUIRED FOR THE MAJOR IN MUSIC.*

Analytic study of rhythm, melody phrase, period, motive and structure beginning with the small forms and including the great instrumental forms of the 18th and 19th centuries. Composition techniques and stylistic differences.

### **MUSI4235 - Masterworks of Music and Great Performers of Our Times.**

*One credits. Prerequisites: MUSI 3115 AND OTHER TWO COURSES (4015, 4025, 4035)*

Concert series of musical masterworks performed by outstanding contemporary artists. the concerts are complemented by a lecture series.

### **MUSI4241 - Form and Analysis I.**

*Two credits. Two hours of lecture and one of laboratory work per week Prerequisites: MUSI 3001, 3002, 4015, 4061, 3115.*

Detailed stylistic analysis of works composed in the musical forms most generally cultivated throughout history. the works will be presented in order of increasing difficulty. Face-to-face, online and hybrid course. Effective February 2021.

### **MUSI4242 - Form and Analysis II.**

*Two credits. Two hours of lecture and one of laboratory work per week Prerequisites: MUSI 3001, 3002, 4015, 4061, 3115.*

Detailed stylistic analysis of works composed in the musical forms most generally cultivated throughout history. the works will be presented in order of increasing difficulty.

### **MUSI4251 - Introduction to Composition.**

*Two credits. Two hours of lecture and one of laboratory work per week Prerequisites: MUSI 4105, 4161, 4205,*

4241, 4242.

The student will become conscious of the problems involved in composition as he writes original pieces employing simple forms and small ensembles. This course will allow him to coordinate all the skills and knowledge acquired in the other courses on theory.

**MUSI4252 - Introduction to Composition II.**

*Two credits. One hour of lecture and two of laboratory work per week Prerequisites: MUSI 4251.*

Musical composition with emphasis on contemporary techniques including the electronic medium.

**MUSI4265 - Introduction to Electronic Music.**

*Three credits. One hour and a half of lecture and one hour and half of laboratory work per week Prerequisites: MUSI 4155 OR 4161 AND MUSI 4195 OR 4241.*

The student becomes familiar with the use of the synthesizer and with the operation of recorders, control console, oscillator, oscilloscope, and other electronic equipment. Class project consist of the elaboration of a permanent archive of electronic sounds and of the composition of brief illustration pieces.

**MUSI4266 - Electronic Music II.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 4265.*

Profound study of the analog system. Composition in the electronic medium utilizing all of the techniques studied and dealing with the problem of the form. Use, application and interrelation of this music with other arts and media: dance, theater, plastic arts, literature, television, etc.

**MUSI4271 - Experimental Music Workshop I.**

*Two credits. One*

Study, creation and performance of avant-garde music.

**MUSI4272 - Experimental Music Workshop II.**

*Two credits. One*

Study, creation and performance of Avant-grade music.

**MUSI4305 - the Concerto.**

*Two credits. Two hours of lecture per week Prerequisites: MUSI 3025, 4061, 3115 AND 3011-3012.*

A monographic course that traces the development of the solo concerto from its origins to its present form.

**MUSI4315 - Instrumentation and Harmony in Popular Music.**

*Three credits. Three hours of lecture per week Prerequisites: MUSI 3115, 4195, 3025, 4061.*

Study and practice of the harmonization and orchestration of popular melodies according to professional principles.

**PORT3004 - Audiolingual Laboratory.**

*No credits. One and a half hour of laboratory work per week Prerequisites: CURRENTLY WITH PORT 3001-3002.*

Practical exercises in grammar with recordings.

**PORT3005 - Audiolingual Laboratory.**

*No credits. One and a half hour of laboratory work per week Prerequisites: CURRENTLY WITH PORT 3001-3002.*

Practical exercises in grammar with recordings.

**PORT3031 - Intensive Portuguese I.**

*3 credits. Five hours of lecture and two and a half hour of laboratory per week Corequisites: POR3031L*

This course is for beginner students of Portuguese and focuses on the development of the communicative competence through the four basic skills (oral and written comprehension, reading and writing) and the contact with Lusophony cultures. Course face-to-face, hybrid and online modalities. This course substitutes port 3001. Effective august 2008.

**PORT3032 - Intensive Portuguese II.**

*3 credits. Five hours of lecture and two hours and a half of laboratory per week Prerequisites: PORT3031 Corequisites: PORT3032L*

Second semester of intensive Portuguese course. It focuses on the development of the communicative competence through the four basic skills (oral and written comprehension, reading and writing) and the contact with Lusophony cultures. (c) course face-to-face, hybrid and online modalities.

**PORT3033 - Intensive Portuguese III.**

*3 credits. Three hours of lecture and one of laboratory per week Prerequisites: PORT3032.*

This course completes the sequence for the basic courses in Portuguese language. It will strengthen communicative competency through practice of the four functional language skills and cultural awareness, as well as introduce inter- mediate level grammar material. Emphasis will be given to reading, textual analysis, and writing proficiency. Also, students are introduced to Lusophony literature through theater plays and film adaptations. Course face-to-face, hybrid and online modalities.

**PORT4003 - Brazilian Art.**

*Three credits. Three hours of lecture per week Prerequisites: PORT3033*

Panoramic course on Brazilian art form the baroque period to the present. the course is offered entirely in the Portuguese language and purports to release art to the social, political and religious context of each period. the course is presented in the format of illustrated lectures, organized by themes, connecting eras and relating artists from the past and the present. Course face-to-face, hybrid and online modalities.

**PORT4005 - Advanced Grammar and Composition.**

*3 credits. Three hours of lecture per week Prerequisites: PORT 3001-3002 AND 3003.*

This course develops Portuguese written competency through the study of discursive genres of everyday, academic and professional life, i. e. Narration, description, the review, the letter and the dissertation, language registers, rhetorical strategies, vocabulary and, above all, the grammatical elements necessary to the proper elaboration of each genre will be discussed. This is an intensive writing course. Face to face, hybrid and online course

**PORT4006 - Introduction to Portuguese Literature.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PORT 3001, 3002, AND 3003.*

The course offers a broad vision of the Portuguese literature since its origins from the xii to the xx century. the first part corresponds to the primary literary movements, since the xii century to the beginnings of the xx century, through the discussion and analysis of its representative texts. in the second part, the most distinguished narrative authors of the contemporary Portuguese narrative are presented. 21-01-03

**PORT4007 - Brazilian Cinema and its Cultural and Social Contexts.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PORT 3003.*

A study of the history of Brazilian film, from silent films to the present, through distinct analytical and thematic approaches that concern Brazilian culture and society and its connection with socio-economic and



cultural forces that, in turn, are related to other artistic manifestations like music, carnival, and literature. the course is intended for students of the foreign language department who study Portuguese as their second language. the film context also facilitates the study of the daily use of idiomatic expressions of Brazilian Portuguese. the course will follow a chronological outline. Will be offered in face-to-face, hybrid and online modalities. Effective august 2021.

### **PORT4008 - Brazilian Literature I.**

*Three credits. Three hours of lecture per week Prerequisites: PORT3033*

This course is an introduction to Brazilian literature through texts that begin at the colonial era (16th century) and extends to the end of the 19th century. By presenting these particular periods and characteristic texts, this course aims to stimulate the appreciation for literary Portuguese and validate the role it plays in world literature in general. Also, it searches to further develop student's skills and competences in Portuguese language.

### **PORT4010 - Independent Study Portuguese.**

*Three credits. Three hours of lecture per week Prerequisites: PORT 3001, 3002, 3003 AND 4005.*

Supervised individualized research in the area of Portuguese studies on topics, theoretical considerations, and problems in the discipline. This course can be taken a maximum of two times (six credits) on different topics.

### **PORT4012 - Brazilian Literature II.**

*Three credits. Two hours of conference and one hour of discussion per week Prerequisites: PORT 3033*

the course proposes a journey through Brazilian literature, from the early 20th century to the contemporary period, i. e. , belle-epoque, modernism and current authors. the chosen texts expose the student to distinct perspectives of the literary oeuvres in various social-cultural, historical and political contexts. Brazilian traditions and customs are examined through the nuances of Portuguese as spoken in Brazil. Face-to-face, online and hybrid course. Effective January 2021.

### **PORT4015 - Brazilian Culture.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: PORT3033*

Advanced course in Portuguese which presents a panoramic view of Brazil and explores Brazilian cultural diversity in the five geographic regions of the country. Study of relevant cultural expressions and leading exponents with Brazil's historical background and pertinent social issues. Reading materials, discussions, oral presentations, and audiovisual resources to appreciate and analyze the selected topics. Development of critical and research abilities and aesthetic sensibility along with reading, writing speaking and listening skills in Portuguese. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021.

### **PORT4016 - Techniques of Oral Expression in Portuguese.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PORT 3033.*

The course develops the competence in oral expression in Portuguese used in academic, professional, and daily life communicative situations such as oral presentations, reviews, presentation of documents, reports, open forum discussion and debate as used in different multimedia. Lessons address both the formal and informal uses of the language, rhetorical and cultural strategies, new vocabulary and review of grammatical points required in each situation and discursive genre studied. the techniques elaborated in each class will be taken from contemporary materials related to the Lusophony world. This is an intensive course of oral production. Face to face, hybrid and online course

### **PORT4017 - Portuguese for Business.**

*Three credits. Two hours of conference and one hour of discussion per week Prerequisites: PORT 3033.*

Course designed for students majoring in modern languages with a specialty in Portuguese. the course will develop oral, written and cultural skills through simulation of common situations adapted from diverse sources related to the world of business. Face to face, hybrid and online course

### **PORT4028 - Portuguese Linguistics.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PORT 4005.*

This advanced course presents a general reflection on the history and formation of the Portuguese language. the course is developed based on the different levels of linguistic analysis: phonetics, phonology, morphology, syntax, semantics, and pragmatics. Finally, issues of language policy and language variations will be addressed. This course will be offered face-to-face, hybrid and online modalities.

### **PORT4029 - Brazilian Sociolinguistics.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PORT4005.*

This advanced course in Brazilian sociolinguistics presents the relationship between language, society and the concepts underlying this approach: language, grammar and norm. the course integrates the concepts of language. Dialect and linguistic variety relevant to sociolinguistics. It will be known about the theoretical-methodological of the current known as variationist sociolinguistics, with emphasis on the pioneering studies of William Labov. the sociolinguistics of Brazilian Portuguese will allow to identify the theoretical - methodological principles of the sociolinguistics variationism involved in the analysis of the variable rule. Also, it will study the basic fundamentals of international sociolinguistics and Brazilian musical sociolinguistics. the theoretical and methodological contributions of sociolinguistics to the teaching of Portuguese as a foreign language will be recognized. Language planning and policy will be presented, face-to-face, hybrid and online course. New description begins January 2022.

### **PORT4030 - Portuguese Didactics.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PORT 4005.*

Advanced Portuguese course in which several existing pedagogical methods for teaching Portuguese as a foreign language will be studied. It will start from the different theoretical and practical aspects presented by experts. Students will learn about the curricular integration of other subjects for a playful and innovative teaching. the course aims to provide the basics skills to create or adapt appropriate materials for the corresponding level of the teaching of Portuguese: from kindergarten to 12" or a1 to c2 (cefr). Different philosophers and their educational theories will be studied, from which the current philosophy used in Puerto Rico will be selected for the creation of objectives for the teaching of the main competences (oral and written comprehension, oral and written expression, and interaction). the content standards and expectations of foreign languages of the department of education of Puerto Rico will be studied and applied, face-to-face, hybrid and online course.

### **PORT4101 - Lusophone African Literatures.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: PORT3003*

This course is an introduction to the literature of Lusophony Africa Angola Mozambique, Cape Verde, Guinea-Bissau, saotome e Principe-focusing on the colonial, resistance and independence periods up to contemporary literature, and the discussion of their cultural identities and religious, racial and gender discrimination and the relation between the colonial language and different African languages.

### **PORT4102 - History of Portuguese Language.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: PORT3003*

In this course we will study the origin and evolution of the Portuguese language from the Latin and proto-romantic languages to the beginning of modern Portuguese, as well as its expansion all over the world. We will also explore its dialectal diversity in Portugal and in brasil, and Portuguese-based creoles, through the

analysis of the Portuguese language's history at different linguistic levels: phonetic, phonological, morphological, syntactic and lexical.

### **PORT4103 - Portuguese Literature II.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: PORT3003*

This course is a continuation of the Portuguese literature I. Portuguese literature is studied from the end of the 19th century until the contemporary epoch. In this course we will study the renewal of the poetic language through Cesario Verde and Camilo Pessanha, which leads to the first modernism of Fernando Pessoa and Mario Sa Carneiro's Orpheu's generation, the new realism that emerged during the 30's the surrealism and its influence in Heberto Helder's writing. The course ends with the reading of Saramago's novel *O Ano da Morte de Ricardo Reis* which revisits Fernando Pessoa's poetic universe. This course will be offered face-to-face, hybrid and online modalities. Effective August 2021.

### **PORT4105 - Dictatorship and Oppression in Brazilian Literature.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: PORT 3003*

The study and analysis of select literary works written and/or published during the military dictatorship in Brazil, i. e. from 1964 to 1985 special attention will be given to the narrative form and the nature of trauma and mourning, keeping in mind the socio-political context in which that literature was forged and the subsequent film renditions which represent the period. The course is designed for students majoring in modern languages with specialty in Portuguese, thereby expanding the course offering in 20th century Brazilian literature.

### **PORT4137 - Portuguese-Hispanic Cultural Relations.**

*Three credits. One hour and a half lecture, one hour of discussion and half hour of independent study Prerequisites: PORT 3033.*

This course is a journey through the cultural and literary relations between Portugal and Hispanic cultures, from the end of the 19th century and throughout the 20th. The approach is both transatlantic and transnational. A critical reading of modern Portuguese-Hispanic relations will be offered from the analysis of specific cases: the fin de siècle Iberisms, the Hispanic reception of Eugenio de Castro as well Fernando Pessoa in Latin America and Spain, and comparisons thereof; Borges' reading of Camões, and José Saramago's cultural federalism in *A Jangada de Pedra*—it will reveal the cultural affinities between Portugal, Spain and Latin America, considering their common semi-peripheral condition in the context of global modernity. It will also demonstrate the conflicting conditions of these relationships in a post-imperial and decolonial context. This course will be offered face-to-face, hybrid and online modalities effective August 2021.

### **PORT4216 - Advanced Study in Portuguese.**

*Three credits. Three hours of discussion per week Prerequisites: PORT 3001-3002, 3003.*

Development of communicative skills at an advanced level. The course content can vary each semester. Topics: Portuguese-Hispanic cultural relations. Topics: introduction to Brazilian applied linguistics. P h online. Effective 01-2021. Topics: poetry and diary in contemporary Portuguese literature. P h online.

### **PORT4217 - Portuguese Contemporary Culture.**

*Three credits. Three hours of lecture per week Prerequisites: PORT3033*

This course is an introduction to XXth century Portuguese culture—from early twentieth century to contemporary times—through the study of poetry and drama, essays and cinema (documentaries and fictional movies). The study of contemporary Portuguese culture includes the study of the social and political transformation in the country during the years of dictatorship until democratic times in the XXth century. This course is intended for students in the foreign language concentration with emphasis in Portuguese studies and will be a complement to the study of Portuguese literature.

**PORT4355 - Poetry and Diary in Contemporary Portuguese Literature.**

*Three credits. One hour and a half lecture, one hour of discussion and half hour of independent study*

*Prerequisites: PORT 3033.*

This course is a journey through poems and diaries by contemporary Portuguese authors. It aims at assessing the critical and disruptive potential of so-called minor genres within the framework of Portuguese literary modernity. Students examine distinct groupings, which include: surrealist intervention and freedom; poetry and resistance; diary as historical memory; philosophical diary; new realism and urban world; young lyricism and anti-lyricism; voyeur diaries and banality; autofiction and critical prose. The analysis will center on the interpretation, translation and elaboration of creative projects that, thanks to their commercial minority, embody the critical vocation of modern literature by challenging the contemporary and dominant discourses. This course will be offered face-to-face, hybrid and online modalities. Effective August 2021.

**PORT4611 - Brazilian Music.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PORT 3033, INTENSIVE PORTUGUESE III.*

In this advanced Portuguese course, the history of Brazilian music from the 18th century to the present will be studied. During the semester, the student will learn about the different musical genres, including: modinha, lundu, maxixe, tango Brasileiro, choro, marching, marching-ranch, frevo, samba-cancao, samba choro, samba de breque, samba-tangle, samba maracatu, samba reggae, sertaneja music, baião, bossa nova, protest camp, tropicalism, guarania brasileira, lambada, funk, axé, carimbo, pagode, lined, crista: gospel ou sacra. Through this course, students will be able to discover and identify different features of linguistics, culture and society through the history of Brazilian music and its genres. This course will be offered under face-to-face, hybrid and online modalities.

**PORT4801 - Portuguese as a Tool in Research.**

*Three credits. Three hours of lecture per week.*

Introduction to spoken Brazilian and Portuguese. Basic notions of grammar conversational practice and elementary reading.

**PORT4802 - Portuguese as a Tool in Research.**

*Three credits. Three hours of lecture per week.*

Introduction to spoken Brazilian and Portuguese. Basic notions of grammar conversational practice and elementary reading.

**QUEC3001 - Quechua I.**

*Three credits. Three hours of lecture per week.*

Quechua structure. Cuzco dialecto.

**QUEC3002 - Quechua II.**

*Three credits. Three hours of lecture per week Prerequisites: QUEC 3001.*

Quechua structure. Cuzco dialect.

**RUSO3001 - Intensive Russian I.**

*Three credits. Five hours of lecture per week.*

Elementary Russian. Grammar, readings. Practice in oral and written composition. Course face-to-face, hybrid and online modalities.

**RUSO3002 - Intensive Russian II.**

*3 credits. Five hours of lecture per week Prerequisites: RUSO 3001.*

This is a second-semester introductory course to the Russian language. The course offers students a basic knowledge of Russian grammar, as well as basic conversational skills, that will allow them appreciate Russian culture and its people's way of thinking. Face-to-face, hybrid and online course.

### **RUSO3003 - Intensive Russian III.**

*Three credits. Five hours of lecture per week Prerequisites: RUSS 3001-3002 OR ITS EQUIVALENT.*

Review of Russian grammar. Practice in composition and conversation. Readings, translation and explanation of texts. Course face-to-face, hybrid and online modalities.

### **RUSO3004 - Audiolingual Laboratory.**

*No credits. One hour and a half of laboratory work per week Prerequisites: CONCURRENTLY WITH RUSS 3001-3002.*

Practical exercises in Russian grammar with recordings.

### **RUSO3005 - Audiolingual Laboratory.**

*No credits. One hour and a half of laboratory work per week Prerequisites: CONCURRENTLY WITH RUSS 3001-3002.*

Practical exercises in Russian grammar with recordings.

### **RUSO4216 - Advanced Study in Russian.**

*Three credits. Three hours of discussion per week Prerequisites: RUSS 3001-3002, 3003.*

Development of communicative skills at an advanced level. The course content can vary each semester. Theme: intermediate Russian-4th semester.

### **SANS3001 - Sanskrit I.**

*Three credits. Three hours of lecture per week.*

Elements of Indo-European linguistics. Basic lessons in Sanskrit grammar, exercises and translations.

### **SANS3002 - Sanskrit II.**

*Three credits. Three hours of lecture per week.*

Elements of Indo-European linguistics. Basic lessons in Sanskrit grammar, exercises and translations.

### **SANS3003 - Sanskrit III.**

*Three credits. Three hours of lecture per week Prerequisites: SANSKRIT 3001, 3002 OR ITS EQUIVALENT.*

Advanced reading, translation and grammar. The non-classic dialects and the technical argots.

### **TEAT3005 - Children Theatre.**

*Three credits. Three hours of lecture per week.*

Study of the bases and techniques for working with children in creative dramatics and in children theatre. (c)

### **TEAT3011 - Acting I.**

*3 credits. One hour of lecture and two of laboratory per week.*

Introduction to the study of acting techniques, and the development of basic skills through the use of games, improvisation, and staging. Face-to-face, hybrid and online course

### **TEAT3012 - Acting II.**

*3 credits. One hour of lecture and two of laboratory per week.*

Study of the necessary acting techniques for character development. Face-to-face, hybrid and online course

**TEAT3015 - Revelry and Comedy: The Theatre of the Spanish Golden Age.**

*Three credits. Three hours of lecture per week Prerequisites: THEA 3011, THEA 3012.*

Study of the components of the dramatic works of the Spanish golden age.

**TEAT3025 - Theater Appreciation.**

*Three credits. Three hours of lecture per week.*

Analysis of the different elements which contribute to make up a theatrical production. (c) course face-to-face, hybrid and online modalities.

**TEAT3026 - Graphic and Plastic Design Fundamentals.**

*Three credits. Two hours of workshop, one and a half of lecture and one and a half of discussion Prerequisites: TEAT3025*

The course is proposing the student as an introduction to the concepts and basic skills of design. Emphasizing the peculiarities inherent in the design of theater: costumes, scenery and lighting. the course will focus on the practical aspects of visual expression required in the field of theatrical design.

**TEAT3032 - Diction II.**

*3 credits. One hour of lecture and two of laboratory per week.*

Continuation course of the study and practice of speech and stage diction for the dramatic text.

**TEAT3101 - History of the Theater I.**

*Three credits. Three hours of lecture per week.*

Introduction to the history of the theater from Greece to the present time, including authors, works and representative literary movements. (c) face to face hybrid and online course

**TEAT3102 - History of Theater II.**

*Three credits. Three hours of lecture per week.*

Introduction to the history of the theater from Greece to the present time, including authors, works and representative literary movements. (c) face to face hybrid and online course

**TEAT3115 - History of the Scenic Design.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

An introductory course on the history of scenic design from its origins to the present.

**TEAT3125 - Theater Make-up.**

*Three credits. Three hours of lecture per week.*

The study and practice of theatrical make-up. the basic principles in the technique of the use of make-up, special emphasis on its application and use for theatrical characterization.

**TEAT3131 - Recitation and Interpretation Reading.**

*Three credits. Three hours of lecture per week.*

General principles of the art of reciting and oral interpretation. Expressive reading and its different theatrical styles. Scenic pronunciation.

**TEAT3132 - Recitation and Interpretation Reading.**

*Three credits. Three hours of lecture per week.*

General principles of the art of reciting and oral interpretation. Expressive reading and its different theatrical styles. Scenic pronunciation.

**TEAT3145 - Survey of Puerto Rican Drama.**

*Three credits. Three hours of lecture per week.*

A study of the Puerto Rican theater movement from its beginning to the present. Origin and development of Puerto Rican dramatic literature through the study of representative plays of the different periods.

**TEAT3161 - Pantomime I.**

*3 credits.*

Study and development of the body as an expressive instrument through the study and practice of pantomime technique. (c) face to face hybrid and online course

**TEAT3162 - Pantomime II.**

*3 credits. One hour of lecture and two hours of laboratory work per week Prerequisites: TEAT3161.*

Study and development of pantomime skills through exercises and improvisation. Face-to-face, online and hybrid course. Effective for November 2020.

**TEAT3171 - Puppet's Workshop I.**

*Three credits. Two hours of lecture and two of laboratory work per week.*

Theory and practice of puppet theater.

**TEAT3172 - Puppet's Workshop II.**

*Three credits. Two hours of lecture and two of laboratory work per week.*

Theory and practice of puppet theater.

**TEAT3181 - Experimental Theater Workshop I.**

*3 credits. Three hours of lecture and three of laboratory work per week Prerequisites: AUDITION*

Planning, organizing and performing in an experimental or amateur theater group in the community or the school. Active work in the production of a play face to face hybrid and online course

**TEAT3182 - Experimental Theater Workshop II.**

*3 credits. Three hours of lecture per week Prerequisites: TEAT 3181.*

Planning, organizing and performing in an experimental or amateur theater group in the community or the school. Active work in the production of a play. Face-to-face, online and hybrid.

**TEAT3191 - Introduction to Theatrical Production.**

*Three credits. Two hours of lecture and three hours of laboratory per week.*

Theory and practice of theatrical production. Participation in the various aspects of production: costume, make-up, scenery, lighting, properties, etc.

**TEAT3192 - Introduction to the Theatrical Production.**

*Three credits. Two hours of lecture and three hours of laboratory per week.*

Theory and practice of theatrical production. Participation in the various aspects of production: costume, make-up, scenery, lighting, properties, etc.

**TEAT3301 - Contemporary Dance for Actors II.**

*Three credits. One hour of discussion and two hours of supervised practice per week*

Practical and theoretical contemporary dance for drama students. Introduction to the process of observation, recognition and control of the body in space combined with strategies for the development of personal movement and gestures in stage. Face-to-face, hybrid and online course

**TEAT3302 - Contemporary Dance for Actors II.**

*Three credits. One hour of discussion and two hours of supervised practice*

Practical and theoretical contemporary dance for drama students. Introduction to the process of observation. Recognition and control of the body in space combined with strategies for the development of personal movement and gestures in stage. 19-08-96

**TEAT4005 - Dramatic Theory.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The study of the theories of drama and its implications.

**TEAT4006 - Theory and Practice of Theater Criticism.**

*Three credits. Three hours of lecture per week Prerequisites: THEA 3101-3102, THEA 3025.*

History and development of the theatrical criticism: its function, its coverage, its ethic values, its effects. the writing of critiques and review of plays.

**TEAT4018 - Choreographic Arrangement of Stage Production.**

*3 credits. Three hours of practice per week.*

Choreography setting of one stage performance that could vary every semester.

**TEAT4026 - Advanced Theater Make-up.**

*Three credits. One hour of lecture and two hours of laboratory work per week Prerequisites: THEA 3125.*

An advanced study and practice of theatrical make-up in which the latest techniques will be applied in the art of making up a theatrical character. Workshop work will be emphasized and a series of conferences will be included as complement to the course. the formation of make-up artist will be the final goal of this advanced course in the art of theatrical make-up.

**TEAT4031 - Acting III.**

*3 credits. One hour of lecture and two hours of laboratory per week Prerequisites: TEAT 3011-3012.*

Dramatic interpretation and characterization. Face-to-face, hybrid and online course

**TEAT4032 - Acting IV.**

*3 credits. One hour of lecture and two hours of laboratory per week Prerequisites: TEAT 3011-3012.*

Dramatic interpretation and characterization. Face-to-face, hybrid and online course

**TEAT4038 - Stage Combat.**

*Three credits. One hour and a half of lecture and one hour and a half of workshop per week Prerequisites: TEAT3011, TEAT3012*

This course aims to familiarize the student with the purposes and foundations of stage combat, security in the handling of instruments for these purposes and execution on the scene.

**TEAT4041 - Stage Diction III.**

*3 credits. One hour of lecture and two hours of laboratory per week Prerequisites: TEAT 3031-3032.*

Practice in speech as part of stage characterization.

**TEAT4042 - Stage Diction IV.**

*3 credits. One hour of lecture and two hours of laboratory per week Prerequisites: TEAT 3031-3032.*

Practice in speech as part of stage characterization.



**TEAT4051 - Pantomime III.**

*3 credits. One hour of lecture and two of laboratory work per week Prerequisites: TEAT 3161-3162*

Study and practice of pantomime techniques required in pantomime courses i and ii as used in dramatic character development.

**TEAT4052 - Pantomime IV.**

*3 credits. One hour of lecture and two of laboratory work per week*

Continuation course of the study and practice of the art of pantomime as used in dramatic character development.

**TEAT4054 - Pantomime VI.**

*3 credits. Three hours of lecture.*

Advanced instructions in mime techniques and its application through creative exercises.

**TEAT4058 - Bilingual Performance.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: 4 TO 6*

The elective course is designed to introduce students to the process of creating and original production from a script. the script chosen will be in either English or Spanish and will be translated into the other language. Students will participate as actors, stage designer, set builders, costume designers, dramaturgs and publicity representatives. Maintaining a weekly journal and writing a final report will be part of students' responsibilities. the course will culminate in an original production of the play in its original language and in its new translation. This course is equivalent INGL 4058.

**TEAT4061 - Introduction to Technical Production I.**

*Three credits. Two hours of lecture and three of laboratory work per week.*

Theory and practice of the construction of stage scenery. Participation in the building of sets for the plays produced by the department.

**TEAT4062 - Introduction to Technical Production II.**

*Three credits. Two hours of lecture and three laboratory hours a week.*

Theory and practice of the construction of stage scenery. Participation in the building of sets for the plays produced by the department.

**TEAT4075 - Stage Management.**

*3 credits. One hour of lecture and two hours of laboratory per week Prerequisites: TEAT 3191-3192 OR TEAT 3025 OR TEAT4061-4062.*

Introduction to the craft and responsibilities of a stage manager. the course focuses on the organizational, administrative and practical requirements needed in a theater production.

**TEAT4081 - Touring Theatre I.**

*3 credits. Lectures by agreement Prerequisites: AUDITION*

Study and practice of production, realization and presentation of plays directed towards an audience in or outside a theatre.

**TEAT4082 - Touring Theatre II.**

*Three credits. Lectures by agreement.*

Study and practice of production, realization and presentation of plays directed towards an audience in or outside a theatre.

**TEAT4095 - Introduction to Playwriting.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE PROFESSOR OR THEA 3101-3102.*

An introduction to playwriting: a search for the materials and forms appropriate to the art and craft of playwriting. Face-to-face, hybrid and online course

**TEAT4101 - Costume Design I.**

*3 credits. Two hours of lecture and three of laboratory work per week.*

Study of the history of costume from the stone age to the xv century. Text and character analysis using the elements of dress design. Face-to-face, hybrid and online course

**TEAT4102 - Costume Design II.**

*3 credits. Two hours of lecture and three of laboratory per week.*

Theory and practice of the design and construction of costumes for the stage. Laboratory work on the construction of the costumes for the play produced during the year.

**TEAT4111 - Dramatic Activities.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Techniques and practice of creative drama for school and extracurricular activities. Face-to-face, hybrid and online course

**TEAT4112 - Dramatics Activities.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Techniques and practice of creative drama for school and extracurricular activities.

**TEAT4115 - Styles of Acting.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: TEAT 3011-3012 AND 4031-4032.*

A study of various styles in acting through rehearsal of scenes from different plays. Face-to-face, online and hybrid course. Effective for November 2020.

**TEAT4125 - Avant-garde Theatre.**

*Three credits. Three hours of lecture per week Prerequisites: TEAT 3101-3102 OR ITS EQUIVALENT.*

Study and analysis of representative authors and plays of the avant-garde theater in Europe and north America. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2021.

**TEAT4131 - Scene Design I.**

*3 credits. Two hours of lecture and three of laboratory work per week.*

Study of the basic elements of scenic design, its styles and periods. Work in design of scenery for the experimental productions of the department. Face-to-face, hybrid and online course

**TEAT4132 - Scene Design II.**

*3 credits. Prerequisites: TEAT 4131.*

Study of the basic elements of scenic design, its styles and periods. Work in design of scenery for the experimental productions of the department. Face-to-face, hybrid and online course

**TEAT4133 - Graphic and Plastics Design Fundamentals.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: TEAT4131*

the course is proposing at the student as a reflection and analysis of the concept space, joined to the concept stage space and stenographic space today. Through the course the student will deepen in key theoretical concepts in the scenic design and graduate courses.

**TEAT4135 - Medical Theatricality.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Interdisciplinary course in which the field of medical humanities and health will be explored through theater and acting techniques. Basic knowledge will be developed in: empathy and ethical sensitivity in a medical context; consciousness of the body, communication skills, observation, self-reflection; textual analysis and the study of verbal and non-verbal expression.

**TEAT4136 - The Making of Stage Scenery Models.**

*Three credits. One and a half hour of lecture and one and a half hour of workshop per week.*

To familiarize the student with the purpose and foundations of the development of a model, to thus submit a small-scale design, taking into account its safety and execution.

**TEAT4141 - Commedia Dell'arte I.**

*3 credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: TEAT3161 AND TEAT3162*

History, techniques and style of commedia dell'arte. Includes practical work in the special training required for the style of acting.

**TEAT4142 - Commedia Dell'arte II.**

*Three credits. Two hours of lecture and two hours of laboratory work per week.*

History, techniques and style of commedia dell'arte. Includes practical work in the special training required for the style of acting.

**TEAT4155 - Ibsen, Strindberg, Chejov.**

*Three credits. Three hours of lecture per week Prerequisites: TEAT 3101-3102 OR CONSENT OF THE PROFESSOR.*

Intensive study of the representative works of these authors and their contribution to modern drama. (Seminar type course).

**TEAT4165 - from Pirandello to Genet.**

*Three credits. Three hours of lecture per week Prerequisites: TEAT 3101-3102 OR CONSENT OF THE PROFESSOR.*

Study of the most important European plays from Pirandello to Genet.

**TEAT4175 - the Actor in the Theatre, Cinema and Tv.**

*Three credits. Three hours of lecture per week Prerequisites: TEAT3011-3012, 3031-3032, 3161-3162.*

Comparative course for the actor on the acting techniques for theater, film and television.

**TEAT4185 - Drama and Revolution.**

*Three credits. Three hours of lecture per week Prerequisites: INTERVIEW WITH THE PROFESSOR.*

An examination of the relationship between the theatre and socio-political matters. Special attention will be focused primarily on the drama as literature and historic document. the course will examine the drama within the structure of society from the Greeks to the Puerto Ricans.

**TEAT4195 - Pantomime V.**

*Two credits. Three hours of lecture per week Prerequisites: THEA 3161-3162 AND 4051-4052.*  
Advanced instruction in mime's techniques and its development through intensive exercises.

**TEAT4201 - Stage Lighting I.**

*3 credits. Two hours of lecture and three of laboratory work per week.*

Introductory course to the handling and installation of lighting equipment in a play. Study of the basic design elements of levels of illumination. Face-to-face, hybrid and online course

**TEAT4202 - Stage Lighting II.**

*3 credits. Two hours of lecture and three hours of laboratory per work week.*

Introductory course to the handling and installation of lighting equipment in a play. Study of the basic design elements of levels of illumination.

**TEAT4211 - Stage Direction I.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: THEA 3101-3102, 3191-3192.*

Theory and practice of the fundamentals of stage direction. (c) face to face hybrid and online course

**TEAT4212 - Stage Direction II.**

*Three credits. Two hours of lecture and three of laboratory work per week Prerequisites: THEA 3101-3102, 3191-3192.*

Theory and practice of the fundamentals of stage direction. (c) face-to-face, online and hybrid course.  
Effective for November 2020.

**TEAT4221 - Stage Direction for Teachers.**

*Three credits. Three hours of lecture and workshop per week Prerequisites: THEA 3101-3102, 3191-3192.*

Theory and practice of the fundamentals of stage direction. Course designed especially for teachers.

**TEAT4222 - Stage Direction for Teachers.**

*Three credits. Three hours of lecture and workshop per week Prerequisites: TEAT 3101-3102, 3191-3192.*

Theory and practice of the fundamentals of stage direction. Course designed especially for teachers.

**TEAT4235 - Costume Construction.**

*3 credits. One hour of lecture and three of practice-shop per week Prerequisites: TEAT3101, TEAT3102, TEAT4101 AND TEAT4102*

Study techniques and practices of pattern drafting of historical costumes for the stage. Analysis and uses of various fabrics and methods of dyeing textiles.

**TEAT4805 - Seminar Independent Studies in Drama.**

*Three credits. Three hours of lecture and workshop per week.*

The seminar may be taken within any of the areas; covered by the curriculum of the drama department. the projects undertaken by the students may be research of creative projects.

**COLLEGE OF BUSINESS ADMINISTRATION**

**ADMI3901 - Entrepreneurship, Innovation and Business Models.**

*Three credits. One hour of lecture two hours of discussion per week Prerequisites: CONT 3105, ERC 3115.*

Development of an innovative business models using active learning and creative thinking methods.

Emphasis on the business idea generation process. The course requires as a final project that students

present their business model in a competition organized by them. the competition will be open to all students on the campus even when they are not enrolled in the course, and participation in the competition will be mandatory for students enrolled in the course. This course will be offered in face-to-face, hybrid, distance and online modalities.

#### **ADMI4005 - Introduction to Management and Business.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

Introduction to theories, managerial functions, entrepreneurial vision and business outlook. Study and analysis of the process of planning, direction, organization and control in an interdisciplinary context. the course emphasizes the systemic vision of business including all those aspects that allows them to be efficient and sustainable.

#### **ADMI4006 - Quantitative Analysis for Decision Making.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: ESTA 3041.*

Conceptualization, identification and formulation of management decision problems. Quantitative and qualitative methods to analyze, interpret and solve management decision problems. Use of computer is emphasized.

#### **ADMI4007 - Strategic Management.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: GEOP 4315, MERC 3115, FINA 3106, REHU 4405 OR REHU 4408, OR ADMI 4415 OR SICI 4405.*

Introduction to a comprehensive, conceptual and analytical decision process to help the enterprise evaluate its condition, analyze environmental forces, including the competition, and to translate that information into objectives and strategies that will allow the company to compete efficiently. Emphasis is on the responsibility of management in the development of programs designed to keep business competitive on the long run. the course can be offered in face-to-face, hybrid and online course.

#### **ADMI4008 - Decision Making in Planning Inventory Control.**

*Three credits. Three hours of lecture per week Prerequisites: MANA 4006.*

Principles and mathematical models for the adoption of decisions in the manufacture inventory (MRP), finished products and the concept of distribution resources planning (DRP). This course will be substituted by geop4336, since august 2010.

#### **ADMI4009 - Decisional Process II.**

*Three credits. Three hours of lecture per week Prerequisites: MANA 4008.*

Develops in the student the perceptive and analytic ability to understand and solve certain types of problems and situations that are part of the decision-making process in any type of business concern. It involves wide utilization of decisional techniques and methods, with special emphasis in quantitative procedures as functional tools and sources of the necessary information for analysis.

#### **ADMI4010 - Planning Organization of New Firms.**

*3 credits. One hour of lecture and two hours of discussion per week Prerequisites: CONT 3105, MERC 3115.*

Study and analysis of the opportunities to establish a new enterprise through the development of a business plan.

#### **ADMI4035 - Small Business Management.**

*3 credits. One hour of lecture and two hours of discussion per week Prerequisites: CONT3105 MERC3115*

Application of principles and methods for the development and operation of small business using an entrepreneurship approach.

**ADMI4045 - Social Control of Business.**

*3 credits. Three hours of lecture per week Prerequisites: ADMI4005*

Development of government control of business activity; purposes of control and types of control, regulation of entry into business, prices and rates, services and quality, discrimination, monopoly and restraint of trade, and unfair methods of competition; depression and emergency controls, government aid to business and government ownership and operation, the legal and administrative machinery and procedures employed to carry out public policy. Special emphasis on the business manager's adjustment to government regulations of business.

**ADMI4046 - Export and Import Opportunities in Puerto Rico.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: ADMI4005, ECON3022 OR AUTHORIZATION OF THE DIRECTOR.*

Expose the student (future entrepreneur) to the business opportunities regarding export and import on goods and services in Puerto Rico with the intent of promoting the student to pursue this business opportunity. the student will present at course end a business proposal regarding the export-import of goods and services in Puerto Rico.

**ADMI4050 - Principles of Management Consulting.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: ADMI 4005, MERC 3115, FINA 3106.*

Introduction to the nature and purpose of the management consulting practice, to the breadth and depth of the services it encompasses, to the relationship between the client and the consultant and to the management of organization change and culture. Emphasis on the business consultant responsibilities, professionalism and ethics.

**ADMI4075 - Intelligent Systems for Managers.**

*Three credits. Three hours of lecture per week Prerequisites: MANA 4006, COIS 3211.*

Introduction to the fundamental concepts of intelligent systems from a managerial viewpoint. Overview of the recent ideas in artificial intelligence, neural nets and adaptive systems, and their application to problem solving, planning, decision making and industrial robotics. 19-08-96

**ADMI4110 - Social Entrepreneurship and Volunteerism.**

*Three credits. Two hours of discussion and one of lecture per week.*

The course examines the dynamics of the creation of a business venture with a mission to create social value, within the "new economy". the traditional as well as nontraditional concepts concerning the creation, management and production of a business are applied to the endeavor of the social enterprise social enterprise financial models are emphasized in addition to the impact and performance measurement. the course promotes service and innovative talent, as well as human resources models of recruitment and supervision applied to the social enterprise with emphasis in volunteers. the course can be offered in face to face, hybrid and online course.

**ADMI4225 - Principles of International Business.**

*3 credits. Two hours of lecture and one of discussion per week Prerequisites: ADMI 4005, FINA 3107.*

Introduction to the international dimension of business. Emphasis is on the participants, theories and particularities of the international business.

**ADMI4226 - Regulation and Documentation for Import, Export and International Transactions.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: ECON*

3005, MERC 3115, AND FINA 3007.

Study of the practical aspects of procedures, documentation and financing of the exportation and importation of goods and services. Emphasis is in custom procedures and practices.

**ADMI4236 - Puerto Rico Foreign Trade.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

The course analyzes the foreign trade of Puerto Rico with emphasis on the process of identifying market opportunities and the design of strategies that potentiate the use of identified opportunities. Other key elements of study in this course are understanding the configuration of the business climate in Puerto Rico, as well as the participation of large, medium and small businesses. This course will be offered under face-to-face, hybrid and online course.

**ADMI4415 - Leadership.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: ADMI 4005-INTRODUCTION TO MANAGEMENT AND BUSINESS.*

Introduction to the theories, concepts and practices of leadership in three areas of action: the organization, the community and society. It promotes discussion of the contextualization of the leadership, exploring the competences and skills expected of a leader with oral principles, vision and ability to motivate, inspire and stimulate innovation and entrepreneurship in others. the course can be offered in face-to-face, hybrid and online course.

**ADMI4416 - Business Ethics.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: CONT3106, MERC3115, REHU 4405, OR REHU4408, OR REHU4409 OR ADMI4415.*

Philosophical study of morality and its application to business administration. the fundamental principles and models of ethical reasoning are used in decision making with emphasis in the analysis and evaluation of business systems, strategies, policies and problems. Discussion of the institutionalization of business ethics in order to encourage ethical behavior. This course will be offered face-to-face, hybrid and online modalities.

**ADMI4417 - Business Ethics and its Applications to Computer Information System.**

*Zero credits. One hour and 20 minutes of lecture and one hour and 80 minutes of discussion per week*

*Prerequisites: CONT3105, MERC3115, SICI4278. Corequisites: SICI4275*

Foundations of business ethics and its application to computer information systems. Fundamental ethical reasoning principles are used in business decision making. This introductory classroom course is offered to students of the computer information systems major. This course will be offered face-to-face, hybrid and online modalities.

**ADMI4450 - Internship in Management.**

*Three credits. Twelve hours of supervised practice per week Prerequisites: ADMI 4005, MERC 3115, AND GEOP 4315; 12*

Practical experience of the theories and concepts of effective management learned in the classroom. Academic counseling and supervision for the student integration in the job is provided. It consists of 12 hours per week or 180 hours per semester in a work center. Course face-to-face, hybrid and online. Effective august 2020. 12-01-2000

**ADMI4455 - Contemporary Topics in International Business.**

*One credits. the students can repeat this minicourse three times Prerequisites: ADMI 4005*

Introduction to different and contemporary topics in international business and its implications to service and industrial sectors. 12-01-2000

**ADMI4991 - Cooperative Education in International Business.**

*Two to Four credits. Practical supervision Prerequisites: 60*

Experience in the practical application of the theoretical concepts of international business preferably in a fulltime paid job and under academic supervision. August 14, 2000.

**ADMI4998 - Cooperative Education Experience in Management and Entrepreneurship.**

*ADMI4998 - Cooperative Education Experience in Management and Entrepreneurship. Prerequisites: HAVE COMPLETED TWO YEARS OF UNDERGRADUATE STUDIES (60*

Experience to apply the theoretical knowledge of the business field in a full-time, paid job under academic supervision. This course will be in face-to-face, hybrid and online modalities. This course will be full time for the student when the section is 4 credits.

**ADMI5500 - Foundations for Graduate Studies in Business Administration.**

*One credits.*

Introduction to the essential concepts for a good performance in the master in business administration program. Provides a basic level of knowledge in microeconomics. Statistics, mathematics, accounting and finance. the course is directed towards students who initiate the master in business administration program. Course face-to-face and hybrid modalities.

**ADMI5600 - Tools for Graduate Studies in Business Administration.**

*One credits. 15 hours in condensed format meetings*

Introduction to the research, analysis and team-work tools essential for a good performance in the master in business administration program. the course is directed towards students who initiate the master in business administration program after taking the course.

**ADMI5990 - Contemporary Issues in Entrepreneurship Seminar.**

*Three credits. Three hours of seminar per week Prerequisites: CONT 3105, MERC 3115.*

Study of contemporary issues affecting small business. Emphasis will be given to topics that involve the development of new business models, the investigation of current situations and problems. Students may enroll up to two seminars, as long as the subject of the course is different each time. This course will be offered in face-to-face and hybrid modalities.

**ADSO3047 - Notetaking in English.**

*3 credits. Three hours of lecture per week Prerequisites: INGL 3102 OR EQUIVALENT.*

Learning of the gregg shorthand system in English. Development and mastering of the shorthand skill by means of the dictation, reading and transcription of shorthand symbols. Review and application of the grammar rules of the English language.

**ADSO3318 - Basic Training in Data Base.**

*1 credit. 20 hours of workshop during the semester using Microsoft access.*

Computer training for the effective use of the data base programs to create, save, and edit documents, create tables, reports, forms and macros.

**ADSO3319 - Basic Training in Presentation Programs.**

*1 credit. 20 hours of workshop during the semester using applications as power point and others.*

Training in microcomputer applications to produce reports, brochures newsletters and other page-composition publications, using presentation programs such as Microsoft power point.



**ADSO3325 - Basic Training in Desktop Publishing.**

*1 credit. Twenty hours of workshop during the semester using Microsoft publisher.*

Training in the computer to create, produce and print publications such as: hand-outs, brochures, newsletters, catalogs and technical manuals.

**ADSO4135 - Law Office Management.**

*3 credits. One and half hour of lecture and one and a half hour of discussion per week.*

Study and application of general principles and processes related to the role of the administrative assistant in law offices. Emphasis on specific tasks related to the processing of legal documents.

**CISE3007 - Elementary and Intermediate Shorthand in English.**

*Five credits. Five hours of lecture per week.*

Introduction to the principles of gregg shorthand and their application. Development of the skills of reading and writing shorthand symbols at a reasonable speed rate.

**CISE4005 - Transcription in Spanish.**

*Four credits. Four hours of lecture per week Prerequisites: SPAN 3101-3102, BUSP 3006 OR 3005 AND 3001, SESC 3017, SESC 4009.*

Review, reinforcement, and full development of shorthand, typewriting and language skills. Transcription technique training by integrating Spanish language usage and previously acquired typewriting and shorthand skills.

**CISE4007 - Transcription in English.**

*Four credits. Four hours of lecture per week Prerequisites: ENGL 3102 OR BUEN 3002, SESC 3028 OR 3007, SESC 3017. CONCURRENTLY WITH SESC 4009.*

Review, reinforcement, and full development of shorthand, typewriting, and English language skills. Training in the development of the transcription techniques by integrating English language skills and previously acquired typewriting and shorthand skills.

**COEM3001 - Business Communication.**

*3 credits. Three*

Study and development of effective communication principles in a business context. the course emphasizes the value of developing communication skills for business and professional performance. Since august 2018. Will be offered in face-to-face, hybrid and online modalities

**COEM3002 - Strategic Writing in Professional Environments.**

*3 credits. Three hours of discussion per week.*

Analysis of labor scenarios and problems and the practices of communication strategies to establish and resolve business problems either individually or in teams. the study and practice of effective drafting of professional releases face to face hybrid and online course

**COEM3006 - Seminar in Business Writing and Documents Analysis.**

*Three credits. Three hours of seminar per week Prerequisites: COEM3001, BASIC SPANISH OR ITS EQUIVALENT*

This seminar covers several topics regarding the language that are key to the theory and practice of writing. the main objective is to study communication through reviewing written pieces. As such, the basic models of communication are treated. the seminar offers the students the opportunity to acquire the knowledge, skills and attitudes that will strengthen their written communicative competence so that they will be able to deal effectively in the professional world. There will be emphasis on the generation, development and organization of ideas as a previous step to writing. Likewise, basic elements to create a professional

document will be studied, such as the sentence in all its variations, kinds of paragraphs and the grammatical items that link ideas in a logical way. Course face-to-face, hybrid and online modalities.

### **COEM3007 - Oral Communication for Entrepreneurs and Professionals.**

*3 credits. One hour and a half of conference and one hour and a half of discussion per week.*

Study and practice of the theoretical concepts of oratory and rhetoric, as well as the oral communication skills necessary for the effective and persuasive exchange of ideas. Elaboration and presentation of the essential modalities of the art of public speaking in a professional context: talks, formal speeches discussion forums, presentations of services and products, symposiums, interviews and video curriculum among other modalities. Course face-to-face, hybrid and online modalities.

### **COEM3008 - Report Writing.**

*3 credits. Hour and a half of conference and hour and a half of discussion per week Prerequisites: COEM 3001*

Study and practice of the theoretical concepts and strategies that develop or improve the necessary skills for report writing. Study of examples of formal and informal, analytical and descriptive reports. Preparation of several writing of this type. Practice in research techniques. Face-to-face hybrid and online course. Effective February 2021.

### **COEM3016 - Business and Puerto Rican and Spanish-American Literature.**

*3 credits. One hour of lecture and two hours of discussions per week.*

Presentation of fundamental concepts of professional and business communication through teaching material composed of literary works in various genres. The essay, narrative, theater and poetry shape the material that will serve to expose issues pertaining to the professional field to develop in students the ability to work successfully as a team. The course also pursues to instill in students oral, written and interpersonal communication skills indispensable to their effective performance in a professional field. Face-to-face, online and hybrid course. Effective February 2021.

### **COEM4005 - Etiquette and Protocol in the Business Area.**

*3 credits. One hour of lecture and two of discussion per week.*

This course offers an introduction of general information necessary in etiquette and protocol for those interested in working comfortably, with confidence and success in business environments in Puerto Rico, United States among other societies and cultures. Besides the knowledge, technical preparation and professional experience, it is necessary to be educated, have the information and skills in ways and correct processes of social conduct in the world of business. The course offers the rules of conduct, its fundamental theory, its reason for being, along with the necessary skills and practical foundation to function effectively in business. Course face-to-face, hybrid and online modalities.

### **COEM4006 - Electronic Communication.**

*3 credits. One hour of lecture and one of discussion per week Prerequisites: BASIC SPANISH COURSE OR ITS EQUIVALENT*

Analysis of electronic communication in business and professional contexts. Multiple manifestations of electronic communication is studied, with particular attention to the changes originated by the use of computers for the purpose of the proper language and forms of communication. Details of the importance of effective communication its form, content, purpose, adequacy, according to the specific circumstances of each case. Face-to-face, online and hybrid course. Effective February 2021.

### **COEM4115 - Proposal Writing in Spanish.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Study, research and development of proposals in a business context. Studying the importance of writing

proposal in Spanish that are persuasive, clear concise, well documented, innovative different. Face-to-face, online and hybrid course. Effective February 2021.

### **COEM4205 - Interpersonal Communication.**

*Three credits. Three hours of lecture per week.*

Study and application of interpersonal communication skills in business and or professional contexts. Analysis and discussion of factors that hinder interpersonal relations between members of an organization; suggestions to solve the misunderstandings that these factors exhibit, are presented. the course highlights the importance of teamwork and offers recommendations for its implementation. Attitudes and behaviors that favor or hinder interpersonal communication are identified. Positive modes are applied to reformulate expressions containing tones and explicit or implicit inappropriate messages. Course face-to-face, hybrid and online modalities.

### **COEM4998 - Cooperative Education Experience.**

*COEM4998 - Cooperative Education Experience. Prerequisites: IT TO HAVE COMPLETED TWO YEARS OF STUDIES UNDERGRADUATE,60*

Experience of the application of theoretical knowledge of the business communication field to a preferably fulltime paid work situation with academic supervision. the course will be full time for the student when it is a 4 credits section. Change in title.

### **COEM5005 - Intercultural Communication in Business and Organization.**

*Three credits. One hour of lecture and two of discussion per week.*

Study and application of the diverse theories related with the intercultural communication in a corporative context within a country and between countries. the course presents a panoramic vision of the several factors that contribute to the intercultural encounters between members of different sub- systems (ethnic groups) within the same socio-cultural system and between towns with different socio-cultural systems. Theoretical and practical knowledge will be integrated with an interdisciplinary approach. Face to face, hybrid and online course

### **CONT3025 - Cost Accounting.**

*Four credits. Four hours of lecture per week Prerequisites: ACCO 3006.*

Study of the principles underlying cost accounting and its function regarding administrative decision making. Study of the various cost accounting techniques as applied to the different types of production, as well as budget principles and the methods used in setting the basis for the determination of costs. Analysis of routine procedures used in compiling data for costs. (c)

### **CONT3105 - Introduction to Fundamentals of Accounting I.**

*Three credits. Three hours of lecture per week.*

Study of accounting as an information system and support function that facilitates making decisions to businesses. Discussion of concepts and methods applicable to the use and disclosure of financial information, its analysis and effect over different users and types of business entities. This course will be offered face-to-face, hybrid and online modalities.

### **CONT3106 - Introduction to Fundamentals of Accounting II.**

*Three credits. Three hours of lecture per week Prerequisites: CONT 3105.*

Study of accounting as an information system and support function that facilitates making decisions to businesses. Emphasis on the uses of accounting information in the planning and control functions within an organization. Discussion of costs' nature and their definition and uses for a diversity of purposes. Face-to-face, hybrid and online course

**CONT4001 - Philosophy, Theory and Problems of Financial Accounting I.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: CONT 3106 OR CONT 3006.*

Study of historical and conceptual development of the accounting discipline. Discussion of standards issued by authoritative and regulatory bodies and its impact over the accounting profession, and relevant methods and procedures related to preparation, registration, analysis and disclosure of financial information in organizations. This course will be offered face-to-face, hybrid and online modalities.

**CONT4002 - Philosophy, Theory and Problems of Financial Accounting II.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: CONT 4001 OR EQUIVALENT.*

Discussion of standards issued by authoritative and regulatory bodies and its impact over the accounting profession, and relevant methods and procedures related to preparation, registration, analysis and disclosure of financial information in organizations. Study of events and transactions related to measurement of assets, liabilities and owner's or stockholder's equity. Course face-to-face, hybrid and online modalities.

**CONT4003 - Philosophy, Theory and Problems of Financial Accounting III.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: CONT 4002 OR EQUIVALENT.*

Discussion of standards issued, methods and procedures relevant to preparation, registration, analysis and disclosure of financial information related to complex events and transactions. Analysis of recent pronouncements issued by authoritative bodies and its impact over accounting information systems. Face-to-face, hybrid, distance, and online modalities. Effective January 2021.

**CONT4006 - Managerial Accounting.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 3006.*

Introduction to the uses of accounting for internal managerial purposes. Explanation of interpretation and uses by management in planning and controlling business activities. Although emphasis is given to the use of accounting data by management, its use by investors and potential investors is also explained whenever deemed appropriate. Emphasis will be given to the following matters: internal control and reports to managements, price level changes, sources and uses of funds, cost concepts and application, profit planning, cost volume-profit relationships and standard and variable costs. Course face-to-face, hybrid and online modalities.

**CONT4009 - Income Tax Procedure in Puerto Rico.**

*3 credits. Prerequisites: CONT 3006.*

The Puerto Rico income tax law and regulations covering taxable income; inclusions and exclusions; allowable deductions; flexible depreciation; basis for determining gain or loss; capital gains and losses; credits; computation of surtax and normal tax as affecting individuals, partnerships, and corporations. Practical problems and the preparation of returns.

**CONT4016 - Modern Development in Accounting.**

*Three credits. Four hours of lecture per week Prerequisites: ACCO 4019.*

Discussion and analysis of postulates, current topics, and controversial issues in the field of accounting. Emphasis on the examination of generally accepted principles of accounting recently adopted by the profession as expressed in current statements and publications. (c)

**CONT4017 - Theory and Principles of Auditing and Systems.**

*3 credits. Three hours of lecture per week Prerequisites: CONT 4002.*

An integrated approach to contemporary auditing practices is presented with emphasis on the evaluation of the accounting system and internal controls. The theory and philosophy of the intervention of accounts are emphasized. Specific subject of discussion includes generally accepted auditing standards, ethical standards, theory of evidence, explanation of statistical sampling and information technology in the examination of transactions. Also discussed are management advisory services provided by the certified public accountants to their clients; practical applications are presented with illustrative examples. General review of the securities laws of the United States, including the Sarbanes-Oxley Act of 2002 (SOX) and its impact on the audit profession. The course is offered face-to-face, hybrid and online modalities.

### **CONT4018 - Philosophy, Theory and Problems of Accounting I.**

*Three credits. Four hours of lecture per week Prerequisites: ACCO 3006.*

Discussion of concepts, principles, procedures and problems on the following matters: adjusting and reversing entries, working papers, net income concepts and correction of prior years' profits, temporary and long-term investments, accounts receivable financing, inventory valuation methods, depreciable tangible fixed assets, intangible assets and short and long-term liabilities. Study of organizations which affect development of principles and standards for the accounting profession. (c)

### **CONT4019 - Philosophy, Theory and Problems of Accounting II.**

*Three credits. Four hours of lecture per week Prerequisites: ACCO 4018.*

The study of matters such as: financing the business, corporate owner's equity, consignments, installment sales, statements from incomplete records, leases and pension plans, special problems in income determination, cost and revenue analysis, and financial statements analysis. (c)

### **CONT4023 - Systems and Operational Auditing.**

*Three credits. Three hours of discussion per week Prerequisites: CONT 4017.*

Analysis of the different services areas offered by the accountant as an independent provider of information and as an analyst of the information system. Study of the functions of the internal auditor in supporting organizational policies, and in complying with legal rules. (c) 17-08-98

### **CONT4025 - Gift and Estate Taxes.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 3005, 3006 AND 4009.*

The study of Puerto Rico laws on gift and estate taxes, valuation concepts, inclusions, exclusions, and allowable deductions. Estate planning. Analysis and interpretation of practical problems.

### **CONT4026 - Internship Program in Accounting.**

*Four credits. Thirty-five hours of laboratory work per week Prerequisites: TWELVE*

This course is designed to provide full-time experience in a real work situation where the student will have the opportunity to put into practice the principles presented in class. It also aims to have the student exposed to the situations that such a work experience can provide and that are instrumental in developing in him the confidence and maturity required in the performance of his professional endeavors. The course will also furnish the students with the criteria necessary to determine the specific area within the accounting field in which they wish to enter. This course will be offered face-to-face, hybrid and online modalities.

### **CONT4027 - Costs Analysis and Control.**

*3 credits. Three hours of lecture per week Prerequisites: CONT 3025.*

The relationship between cost accounting and cost control. Estimated or predetermined costs, budgetary control and standard costs. Graphic presentation of cost data. Non-manufacturing cost and differential cost analysis.

**CONT4029 - International Accounting.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: ACCO 4007 OR 4009, AND ACCO 4017.*

Study of the multinational dimensions of accounting with reference to transactions in foreign exchange market, taxes, auditing, and financial reporting. Discussion of efforts toward harmonization of accounting standards. Emphasis on critical aspect of accounting situations, organizational structures, ethics, investments, and relevant economic environmental circumstances. Requires student participation in teamwork or individual project, and to present their findings in written and oral form. the use of the microcomputer is required. (c) course face-to-face, hybrid and online modalities.

**CONT4057 - Accounting Information Systems.**

*Three credits. One hour and half of lecture and one hour and a half of discussion per week Prerequisites: CONT 4001.*

Study of the functions and usefulness of a computerized information system. Discussion about the development, analysis, and control of accounting information systems. Face-to-face, hybrid and online course

**CONT4058 - Advanced Financial Accounting.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: CONT 4002.*

Study and discussion of advanced and complex financial accounting topics, particularly consolidated financial statements, foreign operations, and business structures.

**CONT4059 - Accounting for Governments and Other Nonbusiness Organization.**

*3 credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: CONT 4002.*

Study and discussion of the accounting rules that apply to governmental entities, particularly state and local governments, as well as to other not-for-profit organizations, both public and private. Analysis of the fiscal condition of these entities. This course is equivalent with cont4020. Since March 2010.

**CONT4076 - Tax Aspects of Individuals.**

*3 credits. Three hours of discussion per week Prerequisites: CONT3105*

3 credits. Three hours of discussion per week Prerequisites: CONT3105

**CONT4079 - Tax Aspects of Corporations and Pass-through Entities.**

*3 credits. Three hours of discussion per week Prerequisites: CONT3106*

Discussion of the basic concepts of the taxation of corporations and pass- through (conduit) entities the federal and state levels with special attention to the taxation income. Study of the concepts of income, exclusions exemptions, deductions, and transactions with properties. Determination of an entity's tax liability and tax credits. Analysis of the tax aspects of an entity in the contributions of capital, operations, distributions, and its liquidation. Analysis of administrative determinations and procedures. the course will be offered in face-to-face, hybrid and online course.

**CONT4125 - Cost Accounting.**

*Three credits. One hour and half of lectures and one hour and half of discussion per week Prerequisites: CONT 3106, CONT 3006.*

Study of function and impact of cost accounting information systems over decision making in organizations. Analysis of cost accounting techniques and preparation of internal reports relevant to manufacturing and

services industries. Face-to-face, hybrid and online course this course is equivalent with CONT3025.

**CONT4245 - Introduction to Fraud Exam.**

*Three credits. Three hours of discussion per week Prerequisites: CONT3106*

An introduction to fraud examination including the methodology used for resolving allegations of fraud in a business or in a judicial process. This methodology involves gathering evidence, taking statements, and writing reports in assisting in the detection and deterrence of fraud. Face-to-face, online and hybrid course. Effective January 2021.

**CONT4991 - Cooperative Education Experience I.**

*One to Four credits. Regular academic semester: student must work 20-30 hours per week for three credits.*

Experience of the application of theoretical knowledge of the accounting field to a preferably fulltime paid work situation with academic supervision. This course will be offered face-to-face, hybrid and online modalities. the course will be full time for the student when it is a 4 credits section.

**CONT4992 - Cooperative Education Experience II.**

*One to Four credits. Regular academic semester: student must work 20-30 hours per week for three credits.*

Advanced experience in the application of theoretical knowledge of the accounting field to a preferably fulltime paid work situation with academic supervision. Face-to-face, online and hybrid course. Effective January 2021. the course will be full time for the student when it is a 4 credits section.

**CONT4997 - Special Topics in Accounting.**

*One to Four credits. One to four hours of discussion per week Prerequisites: VARIABLE DEPPENDING ON THE TOPIC OF THE COURSE.*

Special topics and variable credit course where different current issues in accounting, particularly those representing new knowledge in the discipline, are discussed, researched, and analyzed. A student may take this course more than once as long as the topic is different, up to a maximum of six credits and with the approval of the department's director. Theme: data analytics in accounting and auditing. P. H. and online.

**CONT5015 - Accounting for Sustainability.**

*Three credits. One hour and a half of conference and one hour and a half of discussion per week Prerequisites: (PHILOSOPHY, THEORY AND ACCOUNTING PROBLEMS II) GRADUATE STUDENTS MAY TAKE THIS COURSE WITH THE PERMISSION OF THE DIRECTOR OF ACCOUNTING.*

This course is about corporate sustainability development and reporting and its implications. It also addresses the different ways in which organizations provide information about their environmental, social, and economic performance; either voluntary or mandatory.

**CONT5400 - Seminar in Accounting.**

*Three credits. Three hours of seminar per week Prerequisites: CONT 4003. OR APPROVAL OF DEPARTMENT DIRECTOR.*

Research seminar for examination of local and international contemporary issues in accounting with particular emphasis in their critical analysis. Includes development of research and communication skills for accounting professionals.

**DEME4006 - Advanced Business Law.**

*Three credits. Four hours of lecture per week Prerequisites: BULA 4005.*

A course on corporative law with special emphasis on organization of corporation, drafting of incorporating papers and other forms; discussion of legal principles involved in questions requiring corporate actions. Study of purpose, powers and scope of corporation, their rights, powers, and responsibilities, and those of

their directors and shareholders. Corporate capital and related matters. Negotiable instruments; the law and judicial interpretation and decisions.

#### **ESEM5005 - Business Ideas Evaluation.**

*3 credits. Three hours of seminar per week Prerequisites: GRADUATE STUDENTS SHOULD HAVE AUTHORIZATION OF THE DIRECTOR OF THE GRADUATE PROGRAM IN WHICH THEY ARE CLASSIFIED.*

The basic topics of the business function or process are studied. the evaluation of business ideas and legal and regulatory aspects as well. the profile of an entrepreneur and the concept of "corporate intrapreneurship" are studied. The student procedures a preliminary feasibility study for a business idea. Face-to-face, hybrid and online course.

#### **ESEM5006 - Small Business Initiation, Development and Maturity Problems.**

*3 credits. Three hours of seminar per week Prerequisites: FINA 3106, GEOP 4315, MERC 315, REHU 4405, REHU 4408, REHU 4415.*

Identification of situations typically faced by companies in the startup, development, and maturity stages. Emphasis on the application of the strategic analysis cycle to identify small business problems and propose strategic solutions. the student will diagnose problems using real cases or situations and will prepare an intervention plan that propose concrete solutions. This course will be offered in face-to-face, hybrid and online modalities.

#### **ESEM5007 - Start-up Financial Proposal.**

*Three credits. Three hours of seminary per week Prerequisites: ESEM-EVALUATION OF BUSINESS IDEAS. GRADUATED STUDENTS SHOULD HAVE THE AUTHORIZATION OF THE DIRECTOR OF THE PROGRAM IN WHICH THEY ARE CLASSIFIED.*

Study of the basic concepts and elements related to start-up financing. The general aspects concerning the business founds needs and the financing sources available in the short, medium and long term are discussed. the whole process concerning the preparation of a financial proposal is analyzed. the student elaborates a financial proposal. The financial estimates done in the course business ideas evaluation are revised.

#### **ESEM5008 - Start-up Marketing Plan.**

*Three credits. Three hours of seminary per week Prerequisites: ESEM-EVALUATION OF IDEA BUSINESSES GRADUATED STUDENTS YOU WOULD SHOULD TO COUNT ON THE AUTHORIZATION OF THE DIRECTOR OF THE PROGRAM IN WHICH THEY CLASSIFIED.*

Discussion of the themes such as: market definition, industry analysis and the development of the marketing mix. the student revises the sales forecast made in the course "business ideas evaluation" and prepares a plan with the marketing and sales strategy for his (her) business idea.

#### **ESEM5009 - Business Development Through Franchises or Acquisitions.**

*3 credits. Three hours of seminar per week Prerequisites: FINA 3106.*

Studies of two business development alternatives: the acquisitions of a franchise or the acquisition of an already established business. The course includes, among other topics, the analysis of legal aspects of the franchise agreement, training, support systems, standardized procedures, competition, financial analysis, sources of financing, future development projections and how to calculate the value of the business. the student will prepare a feasibility study. This course will be offered in face-to-face, hybrid and online modalities.

#### **ESEM5015 - Start-up Business Plan.**

*Three credits. Three hours of seminary per week Prerequisites: 1. ESEM-EVALUATION OF IDEA OF BUSINESS. 2. FINANCIAL PROPOSAL FOR NEW COMPANIES. 3. PLAN OF TRADE FOR A NEW COMPANY. GRADUATED*



*STUDENTS YOU WOULD SHOULD COUNT ON THE AUTHORIZATION OF THE DIRECTOR OF THE PROGRAM IN WHICH THEY CLASSIFIED.*

Study of the business plan components. the student prepares and integrates those components in a formal document that serves to start-up the business and as managerial guide. Revision of the business plan parts that have been already prepared in the previous courses, particularly the human resources, the financial and the marketing plans. in the revision of the revision of the implementation of his plan, which includes activities, dates, resources, and costs. the final version of the business plan is produced.

### **ESEM5016 - Family Business.**

*Three credits. Three hours seminary per week Prerequisites: 1. ESEM-EVALUATION OF IDEA OF BUSINESS. GRADUATED STUDENTS YOU WOULD SHOULD COUNT ON THE AUTHORIZATION OF THE DIRECTOR OF THE PROGRAM IN WHICH THEY CLSSIFIED.*

Study of the problem associated with family business. the contribution of these firms to economic development, the challenges and the opportunities that arise when the family has and manages a business are discussed. the influence of family relationships over management decisions, solutions to conflicts, problems related to succession and other related themes are studied. the student analyzes and documents a real family business case.

### **ESTA3041 - Statistic and Data Analytics for Business Administration I.**

*3 credits. Three hours of discussion per week Prerequisites: MECU 3031.*

Introduction to statistics. Introduction to visualization and data analytics: various types of graphs, pivot tables, and interaction with the data. Basic concepts of probability, conditional probability, decision trees, discrete and continuous random variables. Application of naive bayes algorithm for supervised classification. Probability distributions and their properties, including normal and binomial distribution. Introduction to sample selection and experiment design. Use of excel, r and other software, like tableau, for the organization, summary, presentation, and analysis of real data in the context of business administration.

### **ESTA3045 - Introduction to Statistics for Business Administration.**

*Six credits. Four hours of lecture and two of discussion per week Prerequisites: MECU 3032 AND SICI 3211.*

Study of models, concepts, and theory for data analysis (enumerative and analytical); concepts of population and processes, probability models and sampling distributions theory. Discussion and analysis of the following: introduction to statistical quality control, statistical inference for decision making, confidence intervals, traditional and Bayesian decision analysis, inferences based on bivariate tables, regression techniques, and forecasting with time series. Usage of several statistical software as a tool for the analysis and handling of data. It is required individual work in the statistical computer lab. (c) 16-08-99

### **ESTA3050 - Introduction to Statistical Computing.**

*Three credits. Two hours of discussion per week Prerequisites: ESTA 3041*

Students will learn to use a statistical program to perform data analysis and to develop programs to support such analysis. This course introduces the basics of computer programming through the use and creation of functions and statistical graphics. the topics included are data structures; reading, editing, and exporting of data; control flow structures; creating informational graphics; code debugging. Practical examples correspond to topics of statistical data analysis such as descriptive statistics, regression, correlation, statistical distributions. Statistical software like r will be used.

### **ESTA4001 - Intermediate Statistical Theory.**

*Three credits. Three hours of lecture per week Prerequisites: STAT 3042 AND QUME 3004. STAT 3045*

Probability, random variables, probability distributions, expected value and moment generation function. Some specific probability distributions. Joint probability distributions, covariance and correlation. Estimation

and hypothesis testing. Basic concepts of time series. Introduction to the box-Jenkins Arima models; identification, estimation and prediction; applied cases. Use of statistical computer programs to apply the statistical techniques learned. 19-08-96

#### **ESTA4002 - Intermediate Statistical Theory.**

*Three credits. Three hours of lecture per week Prerequisites: STAT 4001.*

Sampling distributions, point and interval estimation, hypothesis testing, regression, and correlation. 19-08-96

#### **ESTA4008 - Seminar in Research.**

*Three credits. Three hours of lecture per week Prerequisites: STAT 4345, Corequisites: ESTA 4001.*

Development of a research project using statistical theory and methods learned previously, such as: multiple regression, principal components, factor analysis, discriminant analysis, analysis of variance, contingency tables, experimental design. 19-08-96

#### **ESTA4205 - Basic Statistical Programs for Microcomputers.**

*Two credits. One hour of lecture and two hours of laboratory work per week Prerequisites: STAT 3042, COIS 3211, STAT 3045.*

Fundamental elements of basic statistical programs for microcomputers. Their relevance in the analysis of data: descriptive statistics, graphics exploratory analysis, probability distributions, sampling, parameter estimation, hypothesis testing, linear regression, and correlation quality control. 19-08-96

#### **ESTA4206 - SAS Applications in Data Analysis.**

*Two credits. One hour of lecture and two hours of laboratory work per week Prerequisites: STAT 3042, COIS 3211, STAT 3045*

Basic elements of the statistical program SAS. Use of this program for data analysis, including descriptive, graphical, and exploratory analysis, probability distributions and sampling, parameter estimation, hypothesis testing, linear regression and correlation, and statistical quality control. Emphasis in problems arising in business administration. 19-08-96

#### **ESTA4207 - Advanced Statistical Programs for Microcomputers.**

*Two credits. One hour of lecture and two hours of laboratory work per week Prerequisites: STAT 3042, COIS 3211, STAT 3045*

Fundamental elements of a statistical program of intermediate to advanced level for microcomputers. Their relevance in the analysis of data: descriptive statistics, graphics, exploratory analysis, probability distributions, sampling, parameter estimation, hypothesis testing, linear regression and correlation, quality control, analysis of variance and time series. 19-08-96

#### **ESTA4345 - Statistical Methods.**

*Three credits. Three hours of lecture per week Prerequisites: STAT 3042. STAT 3045*

Introduction to univariate and multivariate statistical methods. Descriptive techniques and exploratory analysis of data. Comparison of two populations (groups or treatments) by the classic approach (t-test) and the nonparametric approach. Analysis of variance of one or more factors or categorical variables vs Kruskal-Wallis test. Simple and multiple regression and correlation. Other nonparametric methods. Sampling techniques and quality control of an operation system. Use of statistical computer programs to apply the techniques learned. Presentation and discussion of cases of different areas of business administration. 19-08-96

#### **ESTA4347 - Operations Research.**

*Three credits. Three hours of lecture per week Prerequisites: STAT 4001.*

Linear programming, the optimum and critical pathway, the concept of strategy, game theory, queuing theory, simulation, and management games, production and decisions over inventories.

### **ESTA4356 - Principles of Statistics.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 3003*

Probability. Probability distributions. Binomial probability

### **ESTA4365 - Statistical Quality Control.**

*Three credits. Three hours of lecture per week Prerequisites: ESTA 3042, ESTA 3045*

Shewhart control charts and modern techniques for process control. Product control through economic and statistical design and analysis of sampling plans. How to identify and reduce the system inherent variation or chance causes which constitute 85% of the quality control. Identification and elimination of special causes of variation problem. Decision rules for quality control. Relationship between quality control and other organization units-the total quality control concept. Effectiveness and cost of quality control. 19-08-96

### **ESTA4366 - Sampling.**

*Three credits. Three hours of lecture per week Prerequisites: ESTA 3042, ESTA 3045*

Introduction to sampling. Basic theory of sampling. Selection of demographic and industrial statistics, administrative reports, and inventories. Comparison of several alternate methods. Planning of a multi-stage sampling. the theory of nonresponse. the use of sampling in a census. Interpretation of precision measurements. Use of statistical programs for microcomputers. 19-08-96

### **ESTA4367 - Advanced Sampling.**

*Three credits. Three hours of lecture per week Prerequisites: STAT 4001.*

Complex sample designs. Stratified single or multistage cluster sampling. Control of variation in size of cluster in estimating totals, averages, or ratios. Multistage sampling with large primary sampling units. Estimating variances. Regression estimates, double sampling, sampling for time series, and other sampling methods. Case-study-design and results of some actual sample surveys.

### **ESTA4368 - Survey Research Techniques I.**

*Three credits. Three hours of lecture per week Prerequisites: STAT 4345.*

Objectives of surveys, survey research techniques and their use in different fields, such as social science and marketing. Statistical considerations, sampling, design of a questionnaire, the art of making interviews, codification and classification, statistical interpretation of data. 19-08-96

### **ESTA4369 - Experimental Design.**

*Three credits. Three hours of lecture per week Prerequisites: ESTA 4345.*

Introduction to experimental design techniques. Basic steps for planning an experiment. Precision and accuracy. General method of analysis of experimental outcomes. Some simple designs: completely randomized, random blocks, Latin squares split plot. Incomplete blocks design. Response surfaces. Other designs. 19-08-96

### **ESTA4501 - Forecasting Models.**

*Three credits. Three hours of seminar per week Prerequisites: ESTA 3042 OR ITS EQUIVALENT. MECU3032 OR ITS EQUIVALENT*

Seminar on linear and non-linear multiple regression, including logistic regression models. Inference and diagnostic tests, selection, and transformation of variables, as well as indicator variables will be studied. Through individual and collaborative research, time series models, including the classic multiplicative model,

moving average, exponential smoothing, and the autoregressive model will be studied and applied. Statistical computer software will be used for the processing and analysis of data as applied to several problems. the student will prepare and present both in written and oral form, a research project in which studied concepts will be integrated and applied to a concrete problem.

#### **ESTA4998 - Cooperative Education Experience.**

*Two to Four credits. Regular academic semester: student must work 20-30 hours per week for three credits. Experience in a fulltime job, paid and under academic supervision, in order to apply statistical methods and techniques in the business field. the course will be full time for the student when it is a 4 credits section. 19-08-96*

#### **ESTA4999 - Cooperative Education Experience in Statistics II.**

*Two to Four credits. Supervised practice*

Advanced experience in the application of theoretical statistics a preferably fulltime work situation with academic supervision. the course will be full time for the student when it is a 4 credits section. 20-01-98

#### **ESTA5502 - Design and Analysis of Statistical Samples.**

*Three credits. Three hours of seminar per week Prerequisites: ESTA 3042, OR EQUIVALENT, MECU 3032 OR EQUIVALENT. GRADUATE STUDENTS MUST HAVE PERMISSION FROM THEIR PROGRAM DIRECTOR.*

Seminar on the design, selection, and analysis of statistical samples. Basic concepts and principles of probability sampling. Experience with sampling frames and data bases in diverse formats and the use of a statistical package such as R or SAS. Through individual and collaborative research topics on estimation, weights, precision, accuracy, and efficiency in simple random sampling, stratified, systematic, and one and two stage cluster sampling. Exposure to selected topics including nonresponse, missing data, and total error. Overview of imputation techniques and telephone sampling. Development of application projects. the student will prepare and present both in written and oral form, a research project in which studied concepts will be integrated and applied to a concrete problem.

#### **ESTA5503 - Applied Multivariate Analysis.**

*Three credits. Three hours of seminar per week Prerequisites: ESTA3042, ESTA3045 OR ITS EQUIVALENTS. MECU3032 OR ITS EQUIVALENT FOR GRADUATE STUDENTS PERMISSION OF THE DIRECTOR IS NEEDED.*

Seminar on the basic concepts of statistical analysis for several variable s applied to diverse problems. the seminar will start with a general overview o of matrix algebra and an introduction to the multivariate normal distribution. Through individual and collaborative research, multivariate analysis methods will be studied and applied to problems in different areas, particularly business administration. Among the methods that will be studied are principal component analysis, factor analysis, canonical correlation analysis, discriminant analysis and cluster analysis, statistical software will be used for data processing and analysis. the student will prepare and present both in written and oral form, a research project in which studied concepts will be integrated and applied to a concrete problem.

#### **ESTA5504 - Data Mining.**

*Three credits. Three hours of seminar per week Prerequisites: ESTA 3042, MECU 3032. GRADUATE STUDENTS MUST HAVE PERMISSION FROM THEIR PROGRAM DIRECTOR.*

Seminar on fundamental concepts of data mining. Through individual and collaborative research, students study machine learning techniques that support decision making by the analysis of large amounts of data. Course contents includes pre-processing and data visualization techniques, study and application of supervised and unsupervised classification techniques, and methods of discovery of association rules. Students apply data mining techniques and analyze the results using application software. the student will prepare and present both in written and oral form, a research project in which studied concepts will be

integrated and applied to a concrete problem.

**FINA3005 - Introduction to Insurance.**

*Three credits. Three hours of lecture per week.*  
Three credits. Three hours of lecture per week.

**FINA3057 - Personal and Family Finances.**

*Three credits. One hour and a half of lecture and one hour and a half of workshop per week.*  
Three credits. One hour and a half of lecture and one hour and a half of workshop per week.

**FINA3106 - Financial Management.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FINA 3107, CONT 3106, ESTA 3041, ESTA 3045*

Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FINA 3107, CONT 3106, ESTA 3041, ESTA 3045

**FINA3107 - Financial Markets and Institutions.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: CONT 3105, ADMI 4005, ECON 3022.*

Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: CONT 3105, ADMI 4005, ECON 3022.

**FINA3188 - Financial Analysis with Electronic Spreadsheets.**

*Three credits. Two hours of lecture and one of laboratory per week Prerequisites: CONT3105 CO-REQUISITE*  
Course aimed to students desiring to acquire practical knowledge on using electronic spreadsheets to perform a wide range of financial analysis. Among the topics studied are the various functions and capabilities of electronic spreadsheets for financial analysis of financial statements, pricing of debt and equity instruments, capital structure analysis and cost of capital, capital budgeting decisions, financial projections and analysis of investment portfolios among other issues common to the disciplines of accounting and finance. Face-to-face, hybrid and online course. Effective January 2021.

**FINA4001 - Seminar in Applied Economic, Managerial and Financial Analysis.**

*Three credits. Three hours of seminar per week Prerequisites: FINA3121 FINA3122 FINA3106*  
Introduction to the methodology of experimental economics and its application to specific economic, financial, and managerial topics. Students analyze decision-making processes, uncertainty scenarios and definition of market price. Experiments on economic, managerial, and financial theories and concepts are reviewed and carried out in the classroom. Applied research and analytical discussion based on economic and financial concepts are encouraged, as well as the application of ethical principles in decision-making processes.

**FINA4005 - Life Insurance.**

*Three credits. Three hours of lecture per week Prerequisites: FINA 3005.*  
Insurance techniques as means of protecting the human being against economic loss due to mental or physical incapacity. Discussion of benefits as well as risk situations, rates, and legal considerations. Since January 2017 changes in prerequisites to fina3106

**FINA4006 - Property and Casualty Insurance.**

*3 credits. Three hours of lecture per week Prerequisites: FINA 3106.*  
Study of the risks covered by property and accident insurance, the protection provided by safe disclosures

and the principles that serve as the basis for them. It includes the types of insurance known as multiple lines and as insurance against all risks of physical losses and finances and guarantees. This course will be offered face-to-face, hybrid and online modalities.

#### **FINA4007 - Security Markets.**

*Three credits. Two hour of lecture and one hour of discussion per week Prerequisites: FINA 3007.*

Study of the structure and operating mechanism of the securities market in the u. S. A. With primary emphasis on stocks, bonds, and mortgages. Analysis of the role played by market participants, such as investment bankers, stockbrokers, mortgage bankers, and institutional investors. the basic characteristics of futures contracts, options, and foreign exchange markets are also studied.

#### **FINA4015 - Bank Administration.**

*Three credits. Three hours of lecture per week Prerequisites: FINA 3007 AND FINA 3006*

A study of the financial policies of an individual bank in contrast with the banking system. Emphasis on policies and not on routine. Analysis of the sources of bank funds with emphasis on the use of such funds. A brief historical background of banking institutions. Since January 2017 change in prerequisite to fina3106

#### **FINA4016 - Real Estate.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

A basic course in the principles and practices of real estate business and the socio-economic forces that underlie it.

#### **FINA4018 - Real Estate Financing.**

*Three credits. Three hours of lecture per week Prerequisites: FINA 4016 OR TWO YEARS OR EXPERIENCE IN WORK CONNECTED WITH THE FINANCING OF REAL ESTATE.*

Study of the economic base, source, and uses of capital in the financing or real estate and the evaluation of alternative investments in estate. Includes an analysis of the urban and rural development trends as related to value and real estate financing facilities and conditions. the course covers the different forms of financing real estate such as, owners, equity, mortgages, bonds, lease holds. It also deals with the different types of mortgages, the form in which these originate, are bought, sold, serviced, and collected.

#### **FINA4019 - Monetary and Fiscal Policy.**

*Three credits. Three hours of lecture per week Prerequisites: FINA 3007.*

Analysis of the general problems of business cycles and balance of payments. the use of monetary and fiscal policies as a means of dealing with these problems and the limitation and conflicts of these measures. the effects of said policies are studied through their short-run effect on financial institutions as well as their final effect on the real sector. the case of Puerto Rico is studied under the following criteria: 1) as a unit in a close economic relationship with the United States; 2) as a unit capable of generating its own economic policy.

#### **FINA4020 - International Finance.**

*Three credits. Three hours of lecture per week Prerequisites: FINA 3007.*

Three credits. Three hours of lecture per week Prerequisites: FINA 3007.

#### **FINA4025 - Advanced Managerial Finance.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FINA 3006.*

Advanced study of an enterprise's financial management. Topics discussed in the basic financial management course are reviewed and expanded of the following topics the financial objective of a private enterprise, time value of money, the relationship between value, risk and return both for single securities as well as portfolios of securities; sources of financing for the enterprise, capital structure theory; dividend policy theory, and

market efficiency theories.

**FINA4027 - Current Trends in Money and Banking.**

*Three credits. Three hours of lecture per week Prerequisites: FINA 4019.*

Concentrates in the study and analysis of selected topics in money and banking, financial institutions, financial markets, monetary theory, monetary policy, and other related subjects.

**FINA4037 - Investments.**

*Three credits. Three hours of lecture per week Prerequisites: FINA 3006.*

Analysis and interpretation of financial sources of information through study and analysis of investment alternatives emphasizing risk and other factors. Characteristics of private and institutional investors and analysis of their role through modern investigative methods. Stock market conditions, characteristics, and functions.

**FINA4039 - Public Finance.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Underlying principles of public expenditures, taxation, public credit, and budget making. Shifting and incidence of the different types of taxes. Problems in connection with the following kinds of taxes: property, income corporation, excise, inheritance. Problems of fiscal administration. Special attention is paid to taxation and fiscal organization in Puerto Rico.

**FINA4045 - Current Financial Trends.**

*Three credits. Three hours of lecture per week Prerequisites: FINA 4025.*

This is a course where different aspects of the financial management of an enterprise are integrated for students that are pursuing this area of interest. Some of the topics studied are the following: the financial goals of an enterprise; the market financial futures; the debt capacity of a business; financial application of simulation techniques and decision tree; financial forecasts; capital budgeting; utility theory and the quantification of risk; and the capital asset pricing model.

**FINA4057 - Personal Finance.**

*3 credits. Three hours of lecture per week Prerequisites: FINA 3007*

A concise study of financial planning and management at a personal level.

**FINA4058 - Ethics in Finance.**

*One credits. Three hours of discussion per week Prerequisites: FINA 3007 AND REHU 4416.*

Application of ethical concepts to conflictive situations in the finance field.

**FINA4059 - Securities Law.**

*One credits. Three hours of lecture per week Prerequisites: FINA 3007 AND FINA 4037.*

Study of the federal and local legislation regarding marketable securities and its financial and administrative implications.

**FINA4060 - Working Capital Management.**

*One credits. Three hours of lecture per week Prerequisites: FINA 3006.*

Study of the decisions dealing with current assets and short-term liabilities management.

**FINA4066 - Risk Management.**

*3 credits. Two hours of discussion and one hour of lecture per week Prerequisites: FINA 4125.*

3 credits. Two hours of discussion and one hour of lecture per week Prerequisites: FINA 4125.

**FINA4067 - Fixed Incomes Security Markets.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: FINA 3006, FINA 3007, AND FINA 4037.*

Study of the valuation of fixed income securities. Analysis of the main assets in this category: U.S. and P.R. Treasury and agencies securities, corporate bonds, municipal bonds, loans, pass-through mortgage securities, collateralized mortgage obligations, and others. Discussion of the mathematical analysis involved in the determination of prices, return and volatility of such fixed income securities. the factors which determine the term structure of interest rates will be analyzed. Fixed income securities portfolio management will be discussed from both active and passive modes. 12-01-2000

**FINA4068 - Educational Trip to Financial Sector of New York.**

*Three credits. Twenty hours of meetings before the trip Prerequisites: FINA 3006 AND 3007. Corequisites: FINA 4037.*

Academic trip to the financial sector at New York. It will include a pre-trip analysis and research about the financial institutions to be visited: securities and exchange commission, federal reserve bank, New York stock exchange, Barron's editorial, brokerage companies, international banks, among others. 19-01-2000

**FINA4125 - Intermediate Financial Management.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week. Prerequisites: FINA 3106.*

This course is designed to provide a more in-depth coverage of topics in corporative financial management. the concepts, techniques and tools used by fi financial managers for efficient investment and financing decisions are dis- cussed and analyzed. Special attention is given to the following subjects: financial planning, capital budgets, capital structure, financial lending and borrowing and dividend policy. the course is intended for students in the finance concentration in order to equip the necessary financial tools for the future decision making in their work environment. Face-to-face, hybrid and online course. Effective 01-2021. New prerequisite: FINA 3106. Effective January 2021.

**FINA4130 - Business Valuation Techniques.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: FINA4125*

Introduction to the business financial valuation with an emphasis on private enterprises and startups. Theory valuation techniques will be discussed in this course as well as appraisal methods applied to intellectual property, patents, and startups. Different types of valuation report writing will be discussed. During the course, the valuation techniques applied will be differentiated between a stock buying approach and an asset buying approach. Description until May 2022.

**FINA4137 - Principles of Investing.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: FINA3106*

The relationship between risk and return will be studied in this course. Emphasis will be placed on the importance of portfolio theory and its relation- ship and function within the world of the investments. Asset markets and institutions that participate in these markets will be studied using different theories in order to explain how these markets function. Investment alternatives will be discussed and analyzed at great length, emphasizing their risks and objectives to which they are applied. the investment objectives and relative needs of the individual investors are to be analyzed. in addition, portfolio planning and administration for individual and institutional investments will be discussed using techniques that emphasize modern technologies. Face-to-face, online and hybrid course. Effective January 2021.



**FINA4138 - Derivatives Markets.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Comprehensive study on the processes of creating, providing exchanging, and managing options, futures, and other financial derivatives. Basic valuation concepts are reviewed, along with their application, both to individual instruments and portfolios. Financial derivatives are analyzed as risk control instruments, for both institutional and individual investors.

**FINA4145 - Comprehensive Seminar in Finance.**

*Three credits. Three hours of seminar per week Prerequisites: FINA4125 AND FINA4137*

Three credits. Three hours of seminar per week Prerequisites: FINA4125 AND FINA4137

**FINA4149 - Portfolio Management.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: FINA 4137.*

Discussion of the different theories and techniques used to combine different types of investments to create portfolios that meet goals and objectives based on selected risk parameters. The course is aimed at finance students interested in the investments area. It includes a deep discussion on topics relevant to the area of portfolio management, such as financial assets selection, efficient diversification, market efficiency, investment portfolio performance measurements, and integrated risk management policies and strategies. Foreign asset analysis techniques (both tactical and strategic) will be discussed taking into account international risk such as country risk, currency exchange liquidity, among others. Face-to-face, hybrid and online course.

**FINA4165 - Ina5995al Management for Small and Medium Businesses.**

*Three credits. One hour of conference one of discussion and one of laboratory per week Prerequisites: FINA3106*

Introduction to the financial management of small and medium businesses (SMBS). Discussion of methods for the acquisition and valuation of a small business. Study of legal forms of business. Fundamentals of financial planning financial needs and available short and long-term sources of funds for small businesses will be examined. Discussion of the components of a business plan, with special emphasis in the preparation of financial projections for manage- rial guidance and to obtain external financing. the student will be exposed to real life cases through agreements with financial institutions serving SMBS. Face-to-face, hybrid and online course. Effective January 2021.

**FINA4225 - International Financing Management.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: FINA4125*

Discussion and analysis of financial management with emphasis in the strategies of the firm from an international perspective. Topics such as the following will be analyzed: market value of international securities, protection against exchange rate risk, strategies of financing and budget of international capital, handling of international transfers and international portfolio management, as it bases for the financial decision making of the company.

**FINA4240 - Financial Planning for Retirement and Employee Benefits.**

*Three credits. Prerequisites: FINA 3005.*

Development of comprehensive retirement plans for individual clients, focusing on several aspects of personal financial planning. The topics include construction and analysis of personal financial statements, financial planning for educational purposes, analysis of the necessity of investing for retirement, ira's,

benefits of social security and Medicare, applicable tax laws for retirement plans, among others. Change in prerequisite to fina3016 since august 2017.

#### **FINA4270 - Behavioral Finances.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion Prerequisites: FINA4137*  
This course will study behavioral finance as supplement to the traditional paradigm in order to understand the behavior of the prices of financial assets, corporate finance and practices in securities markets. This course is meant for finance students with an interest on investments.

#### **FINA4305 - Advanced Personal Financial Planning.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: FINA4125*  
Financial concepts and tools are applied to personal financial planning. It includes topics such as liquidity management. Investment analysis, risk management of personal assets, retirement, planning and succession plans, among others. Aspects of behavioral finance in personal financial planning are discussed.

#### **FINA4991 - Cooperative Education Experience I.**

*Two to Four credits. Regular academic semester: student must work 20-30 hours per week for three credits.*  
Experience of applying theoretical knowledge of business fields to a full-time paid work situation with academic supervision. the course will be full time for the student when it is a 4 credits section.

#### **FINA4992 - Cooperative Education Experience II.**

*Two to 4 credits. Supervised practice: 20 to 30 hours per week for three*  
Advanced experience in the application of theoretical knowledge of the finance field in a preferably fulltime paid work situation with academic supervision. The course will be full time for the student when it is a 4 credits section.

#### **FINA5025 - Entrepreneurial Finance.**

*Three credits. Prerequisites: FINA3106. GRADUATE STUDENTS MUST HAVE PERMISSION FROM THE DIRECTOR.*

Advanced course for students who wish to acquire knowledge related to the financial aspects needed to establish and develop a business. The student will learn the process associated with the initialization of business, the financial management necessary for the growth and stabilization of a business, the mechanisms for short and long-term financing and the processes of expanding a business.

#### **FINA5125 - Financial Management for Non-profit Organization.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: FINA3106*

The functions of traditional non-profit treasuries are analyzed and evaluated. Strategies for dealing with cash management, endowments and donations are examined. In addition, debt management, risk management and long-term planning are also examined. The necessities of different types from non-profit organizations will be analyzed, including religious groups, cultural institutions, community services organizations and educational institutions.

#### **FINA5995 - Seminar on Contemporary Issues in Finance.**

*One to Three credits. One to three*

Research, discussion, and analysis of contemporary issues in finance and related fields. the number of credit-hors will vary according to the complexity of the issues selected. Topics: fixed income security and debt markets (bond). Three credits. Effective 01-2021. Face-to-face, hybrid and online course

**GEOF3030 - Records Management and Data Base Systems.**

*Three credits. Three hours of lecture per week.*

Study of principles related to planning, organizing, directing, and controlling systems for records management. Development of competencies to use a data-base software program for information processing. Course offered face-to-face, hybrid and online course. Effective august 2020.

**GEOF3035 - Keyboarding and Applications.**

*Three credits.*

Three credits.

**GEOF3036 - Electronic Information Processing.**

*Four credits. Two hours of lecture and discussion and two hours of practice in classroom per week*

*Prerequisites: ADSO 3035 OR EQUIVALENT.*

Development of keyboarding skills at optimum levels. Emphasis on processing, designing and formatting business documents, tables and reports using a computer. Face-to-face, hybrid and online course. Effective august 2020.

**GEOF3046 - Notetaking in Spanish.**

*Three credits.*

Learning of the gregg shorthand system in Spanish. Development and mastering of the shorthand skill through the dictation, reading, and transcription of shorthand symbols. Review and application of the grammar rules of the Spanish language.

**GEOF3055 - Business Systems and Technologies.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: GEOF3035*

Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: GEOF3035

**GEOF3317 - Basic Training in Calculation Sheet Programs.**

*One credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: GEOF3315 OR GEOF 3316 OR ITS EQUIVALENT*

Training in the basic functions of application programs such as Microsoft excel spreadsheet. Course face-to-face, hybrid and distance.

**GEOF3328 - Advanced Training in Calculation Sheet Programs.**

*One credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: ADSO 3317.*

One credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: ADSO 3317.

**GEOF4045 - Administrative Systems and Procedures for the Enterprise.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: GEOF 3055, 3036, 3030.*

Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: GEOF 3055, 3036, 3030.

**GEOF4049 - Business Documents Production in Spanish.**

*Three credits. Three hours of workshop per week using the computer Prerequisites: ADSO3036, COEM3006*

Learning, development, and mastering transcription skills from recorded dictation of business correspondence in Spanish using a computer. Emphasis in the integration of key- boarding, software, and

language knowledge for the correct transcription of business documents. Face-to-face, hybrid and online course. Effective August 2020.

**GEOF4050 - Documents Production in English Using Electronic Media.**

*Three credits. Prerequisites: GEOF3036/INCO3006*

Learning, development and mastery of the skill of producing business documents in English through the use of the computer. Emphasis on the integration of knowledge of keyboard, design, and language for the effective production of documents.

**GEOF4105 - Integration of Application Programs.**

*Three credits. Prerequisites: GEOF3036*

Three credits. Prerequisites: GEOF3036

**GEOF4115 - Seminar Management and Supervision.**

*Three credits. Three hours of lecture per week Prerequisites: GEOF4045/ADMI4105*

Study and application of advanced concepts in office management and supervision of employees. It includes issues related to leadership styles, participative management, labor issues and conflict resolution in the office, among others. Emphasis on the study and analysis of cases and the presentation of a research project. Face-to-face, hybrid and online course. Effective August 2020.

**GEOF4125 - Strategic Training Planning.**

*Three credits. Three hours of seminar per week Prerequisites: GEOF4045 ADMI4005*

Study, research, and application of basic concepts relevant to the strategic planning of business training programs. Emphasis on the study and needs assessment, on design, preparation, and presentation of training proposals. Face-to-face, hybrid and online course. Effective August 2020.

**GEOF4126 - Multidisciplinary Seminar for Business.**

*Three credits. Three hours of seminar per week Prerequisites: GEOF4105, CONT3106, MATE3031 OR MECU3031*

Introduction to the fundamentals of financial management. Discussion of the concepts and principles of descriptive statistics and the fundamentals of entrepreneurship. Application of concepts to prepare an integrated plan in a business context.

**GEOF4145 - Seminar in Global Networks Integration in Business.**

*Three credits. Three hours of seminar per week Prerequisites: ADSO 3055, ADSO 4105.*

Seminar on evaluation and application of emerging technologies in organizations. Effective use of global networks, technological tools for research, analysis, and the decision-making process. Face-to-face, hybrid and online. Effective August 2020.

**GEOF4150 - Supervised Professional Practice.**

*Four credits. Prerequisites: GEOF4115, GEOF4125, GEOF4049, GEOF4050*

Four credits. Prerequisites: GEOF4115, GEOF4125, GEOF4049, GEOF4050

**GEOF4995 - Cooperative Education Experience.**

*Two to Four credits. Regular academic semester: student must work 20-30 hours per week for three credits.*

Elective course that provides a work experience to students in their third-year of studies toward the office management bachelor or are pursuing a second major in office management. This course provides the opportunity to apply the acquired knowledge and skills supervised by the teacher and the employer in a real work environment. Face-to-face, hybrid and online course. Effective August 2020. the course will be full

time for the student when it is a 4 credits section.

**GEOP4009 - Corporate Resources Planning.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: GEOP 4319, GEOP 4336.*

3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: GEOP 4319, GEOP 4336.

**GEOP4315 - Introduction to Operations and Supply Management.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: ADMI4005, MECU3031*

Introduction of the operational and supply functions of the company and its importance to achieving the organization's strategic plans. Study of the theories, methods and techniques of the role of operations and supply management in domestic and global contexts.

**GEOP4316 - "lean Sigma" and Productivity.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: GEOP4315*

3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: GEOP4315

**GEOP4317 - Industrial Security.**

*Three credits. Three hours of lecture per week Prerequisites: GEOP 4315.*

Industrial planning in order to avoid accidents in the production process, protect the human capital and properties and assure the normal development of operations with the most economical cost.

**GEOP4318 - Quality Management Systems.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: GEOP4315 ESTA3041*

3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: GEOP4315 ESTA3041

**GEOP4319 - Operation Planning and Control.**

*Three credits. Two hours of conference and one of discussion per week Prerequisites: GEOP 4315*

Emphasizes the managerial aspects of production planning and control of the shop floor related to internal logistics. Study of the activities of operations and material management and their effects on the strategic plan in manufacturing and service enterprises. This course will be offered face-to-face, hybrid and online modalities. 21-01-98

**GEOP4320 - Advanced Seminar on Operations and Materials Management.**

*3 credits. Three hours of seminar per week Prerequisites: GEOP4316 AND GEOP4319 OR AUTHORIZATION OF THE PROFESSOR. IN THE CASE OF A FIELD TRIP THE STUDENT MUST HAVE 18 YEARS OR MORE. HAVE COMPLETED THE FIRST TWO YEARS OF THE B.A. AN INTERVIEW AND AUTHORIZATION OF THE DIRECTOR.*

Study of real and contemporary problems in the operations and supply area. Research, discussion, and analysis of topics of relevance to operations and supply management. This course can be offered with a required study trip.

**GEOP4335 - Purchasing Management.**

*Three credits. Two hours of conference and one of discussion per week Prerequisites: GEOP 4315*

Analysis of the purchasing function and its relation to production, marketing, finance, and engineering. Emphasis on the policies and the organization of a purchasing system considering the necessary legal aspects and strategies to create an efficient system. This course will be offered face-to-face, hybrid and online

modalities. 21-01-97

**GEOP4336 - Inventory and Warehouse Management.**

*3 credits. Three hours of lecture per week*

Study of inventory and warehouse management with emphasis on planning and control of appropriate levels of inventory to meet the demand for materials, replacement parts and finished products while minimizing costs. the course includes the principles, concepts, and techniques to determine what items to order, how and where to store them. It also introduces aspects related to planning, design and control of receipt, warehouse and dispatch areas. This course will be offered under face-to face, hybrid, and online course.

**GEOP4345 - Operations and Supply Management Internship.**

*3 credits. Twelve hours of field work per week Prerequisites: GEOP 4008, GEOP 4316, GEOP 4319.*

Practical experience of the theory and concepts of operations and materials management learned in the classroom through 180 hours of work in a designated organization. Faculty counseling and supervision for the student is provided during the internship.

**GEOP4355 - Global Supply Chain Management.**

*3 credits. One hour and a half of lectures and one hour and a half of discussion per week Prerequisites: GEOP 4315.*

Study of operations management from a global perspective where internal operations are integrated with the functions of suppliers, distributors, transportation systems and the customer. Multiple tools, processes and strategies associated with supply chain management are covered. This course will be offered under face-to-face, hybrid and online course.

**GEOP4998 - Education Experience in Operation and Supply Management.**

*GEOP4998 - Education Experience in Operation and Supply Management. Prerequisites: COMPLETE TWO YEARS OF STUDIES AT THE UNDERGRADUATE LEVEL (60 CRS. OR MORE) GRADE POINT AVERAGE OF NO LESS THAN 2.5.*

Practical experience, preferably full time, in the application of theoretical and technical knowledge in the field of operation and materials management that will be paid for and subject to academic supervision. Course face-to-face, hybrid and distance. Effective august. the course will be full time for the student when it is a 4 credits section. Until

**INCO3001 - Business Language and Composition.**

*Three credits. Three hours of lecture per week.*

A basic course in business language and composition intended to provide the students with a working knowledge of the basic tools of oral and written expression. Special emphasis is given to vocabulary, and to reading and writing as coordinate skills.

**INCO3002 - Business Language and Composition.**

*Three credits. Three hours of lecture per week.*

A basic course in business language and composition intended to provide the students with a working knowledge of the basic tools of oral and written expression. Special emphasis is given to vocabulary, and to reading and writing as coordinate skills.

**INCO3005 - Business Communication.**

*3 credits. Three hours of lecture per week Prerequisites: INGL 3102 IN ADDITION TO THE APPROVAL OF THE ADVANCE PLACEMENT EXAM WITH 38 POINTS AND INCO 3015.*

3 credits. Three hours of lecture per week Prerequisites: INGL 3102 IN ADDITION TO THE APPROVAL OF THE

ADVANCE PLACEMENT EXAM WITH 38 POINTS AND INCO 3015.

**INCO3006 - Business Communication.**

*3 credits. Prerequisites: INCO 3005.*

Study of the fundamental elements, principles, and practices underlying business communication. Attention is given to the logical creative process involved in effective writing. Special emphasis is given to business correspondence. (c)

**INCO3007 - Accelerated Course of Business Communication.**

*4 credits. Four hours of lecture per week Prerequisites: INGL 3102 AND AN EIGHTY-FIVE PERCENT OR MORE IN THE DEPARTMENT'S PLACEMENT TEST, OR COLLEGE BOARD ADVANCED TEST WITH A SCORE OF FIVE.*

This course will include the work usually covered in BUEN 3005-3006, but will also include a wider coverage of communication problems and the types of business letters as well as give greater depth to the subject according to the student's abilities. (c)

**INCO3008 - Speech Improvement.**

*2 credits. Two hours of lecture per week Prerequisites: INGL 3102.*

Study of English phonetics and their effect on oral expression. Systematic exercises for the correct production on the sound patterns that give the Spanish speaking student greater difficulty with special emphasis upon rhythmic patterns and intonation. Face to face, hybrid, and online course

**INCO3010 - Seminar on Writing Techniques and Business Documents Analysis.**

*3 credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: INGL3101-3102 OR ITS EQUIVALENT*

Seminar designed to provide students with the necessary tools to improve their listening, speaking, and writing communication skills through the reading. Face to face, hybrid, and online course

**INCO3011 - Translation.**

*2 credits. Prerequisites: INGL 3102*

2 credits. Prerequisites: INGL 3102

**INCO3012 - Translation.**

*Two credits. Prerequisites: ENGL 3102 OR BUEN 3002.*

Designed to develop skill in the techniques employed in Spanish-English and English-Spanish translation. Emphasis is given to the vocabulary, idioms, and structure of both languages as they apply to business communication.

**INCO3015 - Writing Techniques.**

*One credits. Three hours of lecture and discussion per week Prerequisites: ENGL 3101-3102.*

Workshop designed to develop fundamental writing skills as a solid foundation for business communication. (c)

**INCO4006 - Report Writing.**

*2 credits. Three hours of lecture per week Prerequisites: INCO 4008*

Training in the fundamental techniques of business communication through written reports. Special attention is given to the procedures employed in writing an objective, well organized, factual report, the classification of reports and the methods of research. the actual writing of a short analytical report is required. (c) this course will be offered face-to-face, hybrid and online modalities. Virtual resources and tools will be used integrated in the teaching process of the course.

**INCO4008 - Strategic Business Communication.**

*2 credits. One hour of lecture, one of discussion and one of laboratory per week Prerequisites: COEM3001 OR ITS EQUIVALENT*

Application of strategic business communication applied to oral and written message development in English and document design. Research is a fundamental part of the methodology. Technology is integrated through the interaction with international students using "pen pal" project. Face-to-face, online and hybrid course. Effective February 2021.

**INCO4010 - Strategic Business Report Writing and Oral Communication in A Diverse Changing Society.**

*Four credits. Fours hours of discussion per week Prerequisites: COEM 3001.*

This course is designed to give students a comprehensive view of business communication. Stressing critical thinking and persuasion skills, students will become proficient in formal written and oral communication strategies framed by ethical considerations. the multicultural nuance of today's globalized society is also emphasized and applied.

**INCO4045 - Business Communication in Multicultural Settings.**

*3 credits. Three hours of lecture per week Prerequisites: INCO4008 OR ITS EQUIVALENT*

Values and characteristics of diverse cultural groups in Puerto Rico as they are applied in business communication is the topic under study. A theoretical framework of nonverbal communication and its intercultural variations applied to specific business environments is presented. Face-to-face, online and hybrid course. Effective February 2021.

**INCO4046 - Intercultural Nonverbal Communication in Business Settings.**

*Three credits. One and half hour of lecture and one and half hour of discussion per week.*

Presentation of various theoretical frameworks and research in the field of intercultural nonverbal communication in business settings.

**INCO4101 - Business Communication and Ethics.**

*Three credits. Three hours of discussion per week.*

An interdisciplinary course that links the related fields of philosophy, business communication, and ethics, it familiarizes students with relevant works of philosophy on various aspects of ethics. the assigned readings will enable students to explore, analyze, and contextualize assigned readings. Key business communications concepts and situations will be discussed, stemming from the essays discussed in class. Among others, students will become acquainted with concepts such as ethics, agency, responsibility, and knowledge. This course is designed for students to assess ethical issues relating to business, business communications, and society. Face-to-face, hybrid and online course.

**INCO4102 - Crisis Communication.**

*Three credits. Three hours of discussion per week.*

Study of the planned and contingent crisis communication processes that links stakeholders before, during and after a crisis, allows for discussing and problematizing the various crisis communication theories. The case study approach enables students to apply these theories as epistemology, a way of knowing, and to devise communication strategies aiming at preparing for and reducing, limiting, and responding to crisis management issues. Face-to-face, hybrid and online course.

**INCO4103 - Design Thinking and Storytelling for Business Communication.**

*Three credits. Three hours of discussion per week Prerequisites: INGLL 3101 AND 3102.*



A design thinking and storytelling course to create innovative, and sustainable solutions for business communication in the technological savvy workplace. The course focuses qualitative research skills, business communication and oral narrative creation skills. Face-to-face, hybrid and online course.

### **INCO4104 - Business Communication Technologies-webinars, Augmented Reality, and Artificial Intelligence.**

*Three credits. Three hours of discussion per week Prerequisites: INGL 3101 AND 3102.*

Course to plan, design, produce and evaluate webinars, artificial intelligence (ai) chat and augmented reality (ar) interactive experiences for business communication. The course introduces the student to the theory, concepts, and methodologies for business communication content creation (written, oral visual, and nonverbal) for webinars, ar and ai. the course requires no coding, face-to-face, hybrid and online course.

### **INCO4998 - Cooperative Education Experience.**

*Two to 4 credits. 20 to 40 hours of supervised practice*

Advanced experience in the application of the theoretical and practical skills of the processes of business communication in English in a job where the first language is English, preferably full-time, can be paid and will be under academic supervision. the course will be full time for the student when it is a 4 credits section.

### **LEGA4005 - Legal Aspects in Business.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

3 credits. One hour and a half of lecture and one hour and a half of discussion per week.

### **LEGA4007 - Legal Aspects for Accountants.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: LEGA 4005 and CONT 3106.*

Study and analysis of commercial and financial transaction according to the UCC, the federal stock regulations and other pertinent laws and regulations. It will provide the student with the necessary knowledge to understand, identify and solve legal problems related to business operations, particularly to CPA candidates.

### **MECU3001 - Quantitative Methods I.**

*Three credits. Three hours of lecture per week*

Study of real numbers, arithmetic operations with fractions, decimals, signed numbers, exponent and radicals. Operations with polynomials and factoring. Operations with rational algebraic expressions. Emphasis in the solution linear, quadratic, and rational equations. Solution of word problems and business applications. (c)

### **MECU3003 - Quantitative Methods III.**

*Three credits. Three hours of lecture per week Prerequisites: QUEM 3002 OR ITS EQUIVALENT.*

Review of functions. Sequences and limits, differential calculus and an introduction to integral calculus and its uses in the business area.

### **MECU3031 - Quantitative Methods for Business Administration I.**

*Three credits. Three hours of lecture per week Prerequisites: PASS PLACEMENT TEST FOR QUANTITATIVE METHODS OR APPROVED QUME 3001 WITH A GRADE OF C OR HIGHER.*

A pre-calculus course for the study of functions and graphs, in particular, linear, quadratic, rational, irrational, piecewise, exponential and logarithmic. Matrix algebra and the solution of system of linear equations by the reduction method. Emphasis in the use of these concepts for the solution of business applications such as: linear tendency, linear depreciation, rate of change, optimization (revenue, cost) and

mathematics of finance. (c)

**MECU3032 - Quantitative Methods for Business Administration II.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 3031 APPROVED WITH A GRADE OF C OR HIGHER.*

An introductory one variable differential calculus course for students of business administration. Limits, continuity, and the derivative of a function. Rules of differentiation. Curve sketching. Emphasis in the business

**MECU3035 - Finite Math and Precalculus.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Study of linear equations of two variables (graphs, slope and applications) systems of linear equations of two variables (different solution methods and its applications), matrices (basic definition, operation, and the reduction method for solving systems of linear equations); and linear programming, emphasis on the function concept and study of linear, quadratic, rational, square root, absolute value, piecewise defined, exponential and logarithm functions (domain, range, evaluation, intercepts, graph and applications to different business administration areas). Course for students who get less than 650 in the math achievement part of the college entrance examination board. Entails one-hour weekly laboratory and active learning techniques are used; and technology such as graphing calculator and internet.

**MECU4001 - Quantitative Methods IV.**

*Three credits. Three hours of lecture per week.*

Transcendental functions. Techniques of integration. Functions of two or more variables. Business applications. This course substitutes mecu3004

**MECU4005 - Mathematics for Business Research.**

*Three credits. Three hours of lecture per week Prerequisites: MECU 3004 OR ITS EQUIVALENT.*

L'hospital rule. Infinite series. Functions of n variables. Differential equations. Classical optimization applications.

**MECU4006 - Linear Algebra and Introduction to Linear Programming.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 3004 OR ITS EQUIVALENT.*

Sets and functions. Groups and fields. Vector spaces. Matrices and determinants. Systems of linear equations. Characteristic values and quadratic forms. Convex sets.

**MECU4007 - Finance Mathematics.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Simple interest, compound interest, annuities, contingency annuities.

**MECU5001 - Quantitative Methods for Finance and Economics I.**

*Three credits. Three hours of lecture per week Prerequisites: MECU3032*

This course will cover mathematical and computational techniques relevant to economics and finance. The topics studied sequences, matrices and least-squares problems. Each topic will be motivated by an applied problem. At the end of the discussion of each major topic, the student will apply the learned concepts to solve the given problem.

**MECU5050 - Quantitative Methods for Managers and Entrepreneurs.**

*Three credits. Three hours of lecture per week Prerequisites: ANY COURSE OF MATHEMATICS OF UNIVERSITY LEVEL.*

Study of the basic concepts of pre-calculus and calculus with emphasis in t the application of these concepts to solve problems in business. This is not a required course for the MBA program. the course is intended for students who enter the MBA program without the requisite of mathematics courses on differential and integral calculus.

### **MERC3115 - Principles of Marketing.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: ADMI 4005. CO-REQUISITES*

Introduction to the marketing process as a managerial function. Emphasis on the strategic function of marketing in the process of creating value on new venture, small, medium, large, national, or international companies. It also considers the analysis, planning, implementation, organization and control of marketing programs, the role of marketing in society and the marketing decision making process considering the laws and regulations that regulate marketing and respecting fundamental ethical principles. the course can be offered in face-to-face, hybrid and online course.

### **MERC4010 - Consumer Behavior.**

*3 credits. One and a half hour of conference and one and a half hour of discussion per week Prerequisites: MERC 3115.*

Study of the psychological, social, personal, and cultural factors which determine consumer behavior purchasing processes of any products or services. Emphasis on the use of this knowledge in the disc of marketing strategies. the course can be offered in face-to-face, hybrid and online course

### **MERC4025 - Quantitative Methods in Marketing.**

*Three credits. Three hours of lecture per week Prerequisites: MARK 3115, MARK 4227 AND MANA 4006.*

Enlargement of the techniques used in the process of marketing investigation. Includes study of models, use of Bayesian probabilities, statistical tests.

### **MERC4026 - Logistics of Physical Distribution.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: MERC 3115 AND GEOP 4315.*

Analysis of product distribution from an interdisciplinary point of view with a focus on marketing and operations. Design, development, and operation of an integrated physical distribution system for effective consumer product delivery is emphasized.

### **MERC4027 - Advertising.**

*Three credits. Three hours of lecture per week Prerequisites: MARK 3115.*

Analysis, design, implementation, and control of advertising programs. Emphasis on the design and evaluation of creative strategies. (c) course face-to-face, hybrid and distance. Effective august 2020. 20-01-98

### **MERC4028 - Price Management.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: MERC 3115.*

Study of the price variable as an integral part of the marketing strategy. Emphasis on the need to find a price that offers value to the consumer while contributing to the achievement of the firm's marketing and financial objectives. Face-to-face, hybrid and online course.

### **MERC4115 - International Marketing.**

*3 credits. Three hours of discussion per week Prerequisites: MERC 3115.*

Development and implementation of the strategies of the marketing global/ international context. Emphasis

in information and analysis of variables that can affect these strategies in an international or global level. Analysis of strategic implications of marketing decisions in different cultures. The course can be offered in face-to-face, hybrid and online course.

#### **MERC4128 - Product Management.**

*Three credits. One hour and a half of lecture per week Prerequisites: MERC 3115*

Study and analysis of the strategies and tactics of marketing related to the development of new products and to the different life cycle stages. Emphasis on the analysis of the factors that contribute to the success and failure of products and in the design and implementation of marketing strategies and tactics. August 14, 2000.

#### **MERC4129 - Services Marketing.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: MERC 3115.*

Study of the marketing strategies used in the service industry. Analysis of how the distinctive characteristic of service industry affect the design and implementation of marketing strategies. Face-to-face, hybrid and online course. Effective January 2021. 12-08-97

#### **MERC4130 - Promotion Management.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: MERC 3115.*

Analysis, planning, implementation, and control of promotions in the goods and services segments. Emphasis is placed in communication theories directed to persuade and achieve changes in attitudes and perceptions. Other major topics include the use of other traditional promotion tools like advertising, personal selling and newer tools and advances used in this discipline. Face-to-face, hybrid and online course. Effective for January 2021.

#### **MERC4215 - Retailing Management.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: MERC 3115.*

Development and implementation of marketing strategies in the context of retailing. Emphasis on the analysis of the environment in which the enterprise competes and the marketing strategies that arise from environmental changes. Emphasis on the study of retail business opportunities for small and medium-sized enterprises. Face-to-face, hybrid and online course. Effective January 2021. 20-01-98

#### **MERC4216 - Sales Principles and Practices.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: MERC 3115.*

Study of theories and practices of personal sales. Emphasis in the study of the behavior of a salesperson, the external factors which affects direct or indirect the sales process and the effective sales strategies. Introduction to sales methods and techniques and verbal and non-verbal communication. (c) 20-01-98

#### **MERC4219 - Intermediate Marketing.**

*Three credits. Three hours of lecture per week Prerequisites: MERC 3115, ADMI 4005, CONT 3005-3006 AND ESTA 3041-3042.*

Design of strategies and tactics, formulation of marketing policies; organization, demand analysis; planning of products; price systems; logistics; and sales promotion in the process of managerial decision-making. (c) this course will be offered face-to-face, hybrid and online modalities.

#### **MERC4226 - Public Relations.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: MERC 3115.*

Study of public relations as an integral part of the marketing strategies used by an organization. Emphasis on the design of strategies and tactics used in public relations to support the marketing efforts of small and medium- size companies. Face-to-face, hybrid and online course.

#### **MERC4227 - Marketing Research Seminar.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: MERC 4010 AND ESTA 3042 OR ESTA 3045.*

Study of concepts and applications in real situations of processes, methods, and research techniques within an ethical and legal framework to know the behaviors of consumers or markets. the course involves the design of a research proposal that includes, among other elements, the identification of a problem, research methodologies, and the development of research instruments. It also entails the research proposal implementation with the collection and statistical analysis of data using specialized programs to reach recommendations aimed at guiding the management decision-making process in the company. the course can be offered in face-to face hybrid and online course.

#### **MERC4228 - Consumer's Problems and Rights.**

*Three credits. Three hours of lecture per week.*

A study of the relationship between business and consumer protection. the mass consumption society, consumer rights recognized in the laws of Puerto Rico. Specific problems: defective products, frauds, guarantees, etc.

#### **MERC4235 - Internship in Marketing.**

*Three credits. 12 hours of practice per week Prerequisites: 12*

Practical experience of the theory and concepts learned in the class- room, related to effective marketing management through 180 hours of work in a designated organization. Faculty advice and supervision for the student in provided for the process of adjustment to the working world. (c) face-to-face, hybrid and online course. Effective for January 2021. 20-01-98

#### **MERC4250 - Strategic Marketing Management.**

*Three credits. Prerequisites: MERC 3115, MERC 4010, FINA 3106.*

This course integrates and applies in an innovative and practical manner most of the marketing process knowhow, for the strategic achievement of organizational objectives. It focuses on values creation for consumers, with the intent of establishing profitable and lasting relationships. Consideration is given to organizational structure, management of corporate resource capabilities; strategic positioning that will create and sustain competitive advantages leading to organizational success. Other key strategic topics include market analysis, blending of marketing strategies, market segmentation, innovation, ethics and social responsibility in the business. Course face-to-face, hybrid and online modalities.

#### **MERC4998 - Cooperative Education Experience in Marketing.**

*MERC4998 - Cooperative Education Experience in Marketing. Prerequisites: COMPLETE TWO YEARS OF STUDIES AT THE UNDERGRADUATE LEVEL. (60 CRS. OR MORE) GRADE POINT AVERAGE OF NO LESS THEN 2.50.*

Practical experience in applying the technical theoretical knowledge of the marketing field in a job, if possible full-time, that is paid and under academic supervision. Face-to-face, hybrid and online course. the course will be full time for student when it is a 4 credits section.

#### **MERC5995 - Seminar of Contemporary Topics in Marketing.**

*Three credits. Prerequisites: MERC 3115. GRADUATE STUDENTS WILL REQUIRE THE PERMISSION OF THE DIRECTOR OF MANAGEMENT.*

This is a study of contemporary topics which directly affect marketing strategies, including the analysis of new theories, methods, and techniques related to diverse marketing practices. Emphasis will be addressed to research and its relevancy in current issues, situations, and critical conditions of broad marketing fields which require immediate action by marketing professionals. The students will take up to two seminars, provided they address different topics. Topic: political marketing seminar. P. H. and online.

#### **REHU4405 - Human Resources Management.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: ADMI 4005.*

Introduction to the different theories, strategies, practices, methods, and techniques related to the effective management of human resources. Social, ethical, and legal aspects are considered in relation to decision-making in the field of human resources, including the existing regulatory body in Puerto Rico. Recognizing the importance of human talent in the establishment, development and success of organizations, their strategic role in entrepreneurship is discussed as a fundamental competence that drives innovation in the organizational context. the course can be offered in face-to -face, hybrid, and online course.

#### **REHU4406 - Labor Management Relations.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: HURE 4405.*

Analysis of relation dynamics between labor unions and employers in organizations in P.R. and U.S. A. from their origins to the present. Emphasizes the study of the structures of the parties involved in labor management relations as well as the strategies used by each one in accomplishing their goals. Introduction to the basics of the collective bargaining process, contract administration and their impact in the no-union sector. Face-to-face, hybrid and online modalities. Effective august 2021. 20-01-98

#### **REHU4407 - Compensation Systems.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: HURE 4405*

Introduction to the design, implementation and administration of efficient compensation systems that become a vehicle of organizational satisfaction. Emphasis on organizational diagnosis in terms of the internal and external influences that affect the design and administration of the compensation system. (c) this course will be offered face-to-face, hybrid and online modalities. 20-01-98

#### **REHU4408 - Organizational Behavior.**

*3 credits. Two hours of lecture and one of discussion per week Prerequisites: ADMI 4005.*

Introduction to fundamental concepts, theories and processes related to the study of individual, group and organizational behavior. Emphasis on the organization as an open system.

#### **REHU4409 - Human Relations.**

*3 credits. Prerequisites: PSIC3005*

Human relations behavioral concepts and theories that enable the understanding of the human side of organizations and the practice of introspection for the development and application of abilities and attitudes that converge into optimal interpersonal relations. Teamwork is the foundational context for this course that enables students to practice and apply the development of optimal human relations skills. The course is dynamic, interactive and promotes learning through high impact practices. the course can be offered as a hybrid or online course. Face-to-face, hybrid and online modalities. Effective august 2021. New descriptions since august 2016.

**REHU4415 - Collective Bargaining and Conflict Resolution.**

*Three credits. One hour of lecture and two of discussion per week Prerequisites: HURE 4405 AND HURE 4406*  
Exposure to the negotiation of a collective contract bargaining applying labor management laws at the federal and local levels, particularly the labor management relations act of 1947 (Taft Hartley) and the labor relations act of p. R. of 1945 (law 130). Study of the different strategies applied to the collective bargaining process and the methods of conflict or dispute resolution in labor management relations. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021. 20-01-98

**REHU4418 - Industrial/organizational Psychology.**

*Three credits. One hour and a half of lecture and one hour of discussion per week Prerequisites: PSYC 3005.*  
Emphasis is on the basic principles of psychology applied to situations and problems in the field of human resources management that contribute to organizational efficiency. Application of scientific methodology to the development and administration of instruments designed to measure and evaluate organizational influences on behavior. Fae-to-face, hybrid, and online modalities. Effective august 2021. This course change in prerequisites: REHU 4405. Effective august 2021. 20-01-98

**REHU4419 - Labor Law and Jurisprudence.**

*3 credits. Two hours of lecture and one of discussion per week Prerequisites: ADMI 4005, REHU 4405.*  
Analysis of social and labor legislation (local and federal) in Puerto Rico and their impact in the management decision making process. Study and analysis of jurisprudence from the supreme court as well as its effects on organizations. the course emphasizes labor law, particularly, protective legislation. This course will be offered face-to-face, hybrid and online modalities.

**REHU4435 - International Human Resources Management.**

*Three credits. Three hours of discussion per week Prerequisites: MANA 4005 AND HURE 4405.*  
the study of human resources management and how this applies to different countries and continents around the world, and the development of a global and integrated vision of the modern human resources professional. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021. 19-08-96

**REHU4436 - Employee Recruitment and Selection.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: REHU 4405.*

Study of models and strategies for the recruitment and selection of internal and external employment candidates. Emphasis on the planning and implementation of effective strategies to identify short and long-term recruitment needs and to select candidates with the required competencies to work in competitive organizations. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021.

**REHU4437 - Employee Training and Development.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: REHU 4405.*

Study of learning theories and strategies that contribute to the effective design, implementation, and evaluation of training and development programs for employees in managerial and non-managerial positions. Emphasis on techniques that contribute to the attainment of individual and organizational goals that affect the management of talent, employee performance, productivity, and satisfaction in competitive organizations. This course will be offered face-to-face, hybrid and online modalities. Effective august 2021.

**REHU4450 - Internship on Human Resources Management.**

*Three credits. 12 hours of supervised practice per week Prerequisites: REHU 4405, 4407, 4419.*

the practical experience of theory and concepts of human resources management learned in the classroom is put into practice through 180 hours of work in a designated organization. Involves faculty consultation and supervision in the integration of the student into the working world. Course face-to-face, hybrid and distance. Effective august 2020. 12-08-97

**REHU4998 - Cooperative Education Experience in Human Resources Management.**

*One to 4 credits. Supervised practice Prerequisites: COMPLETE TWO YEARS OF THE STUDIES AT THE UNDERGRADUATE LEVEL (60*

Practical experience in applying the technical theoretical knowledge of the human resources field in a job, if possible full time, that is paid and under academic supervision. Face-to-face, hybrid and online course. This course will be full time for the student when it is 4 credits section.

**REHU5005 - Seminar of Contemporary Issues in Human Resource Management.**

*Three credits. Three hours of seminar per week Prerequisites: REHU 4405, REHU 4407, REHU 4419.*

Study of contemporary topics or trends that directly affect effective human resources management. Analysis of new theories, methods, and techniques related to this field within domestic and global environments in areas such as strategic personnel planning, job analysis, recruitment, and employee selection, performance evaluation, compensation, training, discipline, labor relations, or occupational safety and health.

**SICI3000 - Concepts of Computerized Information Systems.**

*No credits. (Fifteen hours of lecture).*

Elements of computerized information systems. Emphasis on the learning of computer concepts, terminology, technical limitations, and capabilities of the digital computer technology. the course also includes history and role of the computer in our society, its usage in the business and other areas, and its social impact on the modern world. Concepts of the systems development life cycle, computerized systems performance, limitations, capabilities, and development problems. (c)

**SICI3211 - Fundamentals of Information Systems.**

*3 credits. Three hours of lecture per week.*

In this course, the fundamentals of computer information systems in the organization are analyzed. The strategic importance of systems, their support and function in the operations, decision making and competitive advantage and their influence in the management of the organization and in the global economy are studied. the course includes the study of computer and communications technology, of information as a critical resource in the organization, of the system development process and of the social and ethical aspects of the utilization of technology, as well as of the professional development. the student prepares practice assignments using productivity tools and operating systems. This course will be offered if face-to-face, hybrid and online. Effective 08\22

**SICI3225 - Introduction to Internet.**

*Two credits. One hour and a half of discussion and one hour and a half of supervised experience.*

Introduction to internet and its applications: internet terms, hardware, and software used to access internet. Discussion of the internet impact on our society including areas like higher education, business, research, arts and journalism. Netiquette, basic concepts and hands-on experience including the use of e-mail, listservs, telnet, ftp, UseNet, archie, wais, gopher, veronica, irc, world wideweb and graphical navigators. Other issues to be discussed are privacy, security, universal access, and government regulations. Guided hands-on experience. 19-08-96

**SICI3245 - Information System Technological Infrastructure.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: SICI3211 OR IT'S EQUIVALENT.*



The study of the main components of the technological infrastructure for information systems, with emphasis in the functional aspects. Oriented to the preparation of the technological configurations upon which information systems are implemented, for small and large business. Also, to the installation and configuration of hardware and operating systems.

### **SICI3255 - Applications Programming.**

*3 credits. Three hours of lecture per week Prerequisites: SICI3211*

Steps in program preparation, basic operations of an algorithm, input and output, arithmetic operations, control operations, variables, and expressions, processing non-numeric data, design of the user interface and the processes, data validation, program debugging, program structuring, use of arrays, organization and structuring of data, file processing. Students will practice the concepts and techniques discussed in class through the preparation of programs using visual object-oriented tool. The course is oriented towards the use of a visual object-oriented tool to practice concepts and techniques, and to practice the preparation of programs to perform common processes in systems.

### **SICI4015 - Files and Data Bases.**

*Three credits. Three hours of lecture per week Prerequisites: SICI 4266*

Review of the following topics: basic data structure, type of file access, and traditional file organization. Discussion of data structure used in files maintenance and the algorithms used in a program such as: physical lists, linked lists, directories, and trees. Concepts discussion of data base management systems, data base design and management issues. Development and programming of a data base system using a data base language.

### **SICI4017 - Systems Programming.**

*Three credits. Three hours of lecture per week Prerequisites: COIS 3255.*

Basic concepts of computer operating systems. Translation of programming languages, assemblers, and compilers; macro processors and loaders. Discussion about different supervisor systems. Systems programming. Modifications and updates to programming systems. 17-08-98

### **SICI4025 - Systems Analysis and Logical Design.**

*3 credits. Three hours of lecture per week*

The study of the systems development life cycle, the system feasibility, process analysis, logical design and requirements determination and evaluation of alternatives (purchase versus development). The students put into practice techniques and tools to collect data and to model processes. the study of administrative aspects like project organization, cost estimates, and implementation plans; organizational aspects like user participation and management support, change management and group work. the course is oriented towards the analysis of operations, the process redesign, and the preparation of requirements for a system that supports the new way to operate.

### **SICI4215 - Business Intelligence Ad Analytics.**

*3 credits. Three hours of discussion per week Prerequisites: SICI4015 OR SICI4466 OR SICI4405*

This course discusses business intelligence technology with emphasis on tools and techniques for the integration of data, ensuring its quality, analysis reporting and visualization for data-driven decision-making.

### **SICI4218 - Microcomputer Applications.**

*Three credits. Three hours of lecture per week Prerequisites: COIS 3211 OR ITS EQUIVALENT. NOT INTENDED FOR COMPUTERIZED INFORMATION SYSTEMS MAJOR. SOME KNOWLEDGE ON ACCOUNTING, FINANCE AND MARKETING DESIRABLE.*

Brief review of general microcomputer concepts. Study and practice of an operating system. Study and

practice of productivity tools commonly used in the microcomputer like word processing, spreadsheets, file managers and/or data bases. Study and practice of other applications programs like graphics, communication, and integrated packages. 19-08-96

### **SICI4256 - Computer Organization and Programming.**

*Three credits. Three hours of lecture and one hour of laboratory work per week Prerequisites: COIS 3255.* Detailed study of an assembler language and its corresponding machine language; discussion of debugging techniques and the assembly process; detailed discussion of functions like subroutines links, table management and detailed discussion of the process of running a program. Study of some aspects of internal organization of a computer with an emphasis on main memory and the central processing unit. 19-08-96

### **SICI4257 - Numerical Methods and Programming.**

*Three credits. Three hours of lecture per week Prerequisites: COIS 3255 OR ITS EQUIVALENT.* Errors and their propagation. Numerical approximations, interpolation, differentiation, integration. Solution by means of the computer of algebraic equation, matrices, and systems of linear equations. Curve-fitting using the least squares methods. Monte Carlo simulation and generation of random numbers. the student will implement a great quantity of algorithms, using the appropriate programming language.

### **SICI4265 - Programming Language.**

*Two credits. One hour of lecture and one of discussion per week Prerequisites: SICI 3255.* Development of knowledge and techniques of a programming language which can be different every time the course is offered. One student can take the course more than one time if the programming language is different. It can be counted as a directed elective of core major up to four credits, two times only if the language is different. 17-08-98

### **SICI4266 - Physical Design and Systems Implementation Using Emerging Tools.**

*SICI4266 - Physical Design and Systems Implementation Using Emerging Tools. Prerequisites: SICI 4025.* The design, programming, and testing of the physical components of computer information system to support the needs of an organization. the course is oriented towards the physical design, the programming and the implementation of systems using emerging programming tools that support the development of global applications.

### **SICI4268 - Advanced Computerized Applications.**

*Three credits. Three hours of lecture per week Prerequisites: COIS 4266.* The study of advanced topics of business computer programming using the Cobol language, especially topics related to interactive programs and interactive systems. Some examples of these topics are alternate keys, start statement, file-status field, subprograms, input/output using crt terminals, design and coding of interactive programs, simultaneous access, backup, recovery, and privacy. All topics are practiced in detail through the preparation of several interactive programming projects. 19-08-96

### **SICI4275 - Information Systems Audit and Controls.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: SICI 4025.* Study of the internal controls used in computerized information systems, of the auditing process followed for the revision of these controls, and the tools used to conduct test during the audits process.

### **SICI4278 - Project Management and Administrative Aspects of Is.**

*3 credits. Three hours of lecture per week Prerequisites: SICI4015 OR SICI4266 OR SICI4405* The study of project planning and project management, emphasizing the determination of project feasibility, and the analysis of activities time and resources. Students use a project management tool to prepare a

project plan. Administrative aspects that affect the development, implementation and operation of information systems are also studied in the course. The course is oriented towards the preparation of a plan for a systems project, including the activities that will be performed, the dependencies between the activities, the time allocated to each activity, and the resources required by each one. This course will be offered in face-to-face, hybrid and online modalities. Effective august 2021.

### **SICI4285 - Wide Area Networks.**

*3 credits. Three hours of lecture per week Prerequisites: SICI 4286.*

Transmission modes for wired and wireless networks, components of the OSI model, functions and characteristics of communications equipment, typical configurations and uses of a wide area networks, transmission codes, modes and protocols, communications equipment, tariffs and services for public networks, network security and availability, functioning of the internet, concepts and techniques for networks management, hardware and a software to manage networks, organization and functioning of a network operating center. the course is oriented towards the design of wide area networks to support the operation of information systems in organizations.

### **SICI4286 - Wide Area Networks.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: SICI 3245*

Transmission modes for wired and wireless networks, components of the OSI model, functions and characteristics of communications equipment, typical configurations and uses of a local area network, functions performed by an operating system, important considerations when installing and configuring a local area network, applications of local area networks (like internet access and "ebusiness"). Students will install and configure a local area network, including both hardware and software. the course is oriented towards the design of local area networks to support the operation of information systems in organizations.

### **SICI4287 - Introduction to Web Software.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: SICI 3255.*

Introduction to some of the procedural and non-procedural programming tools for developing webbased business applications using the client/server model: software development languages both for the client and for the server: markup, procedural, non-procedural languages. Presentation of relevant information relating to web servers.

### **SICI4325 - Systems Development with Case and Dbms Tools.**

*Three credits. Three hours of lecture per week Prerequisites: SICI 4025.*

Study of the tools and techniques used in systems development with particular emphasis in computerized tools, prototype generation and the construction phase. Case, data repository, process and data modeling and application generation. Intermediate and advanced SQL concepts. Administrative concepts of a database in a multi-user environment. Development of an information system of intermediate complexity utilizing case and dbms tools. 17-08-98

### **SICI4358 - the Microcomputers: An Intensive Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: COIS 3255.*

An intensive study of microcomputers and their use for data processing in business and non-business enterprises: structure; different types of available programming; aspects related to the development of information systems and to the integration of microcomputers to organizations and society. 17-08-98

### **SICI4405 - Design and Implementation of Electronic Business.**

*3 credits. Three hours of lecture per week Prerequisites: SICI 4025.*

Strategies and technologies available to implement and operate an electronic business, marketing and sales

strategies, concepts and techniques related to virtual bidding, virtual communities and portals, legal ethical and tax framework in electronic business, payment methods, privacy and security, technological products that support the implementation of electronic businesses steps and important considerations in the implementation of an electronic business. The course is oriented towards the implementation of a retail or service oriented electronic business.

**SICI4465 - Seminar on the Norms That Regulate Information Technology.**

*Three credits. Three hours of lecture per week Prerequisites: SICI 3211 OR EQUIVALENT OR PRACTICAL EXPERIENCE.*

The study of existing norms for communications and computer technology and aspects not subject to regulatory norms. The hierarchy norms are explored first. Specific norms are discussed, among others, such as: norms associated with practices in restraint of commerce, telecommunications technologies, intellectual property protection, civil and criminal liability that professionals face, and challenges to the professions in the midst of a rapidly changing and complex legal environment. The culmination of the course is an examination of real cases in the context of computerized information systems within the organization. 13-08-02

**SICI4997 - Special Topics and Emerging Technologies.**

*One to Three credits. One to three hours of seminar per week Prerequisites: PERMISSION OF THE PROFESSOR.* Study of the emerging technology developments that influences information systems. It is an open topic course for addressing new topics. It can be taken more than once if the topic is different. 17-08-98

**SICI4998 - Cooperative Education Experience.**

*Two to Four credits. Regular academic semester: student must work 20-30 hours per week for three credits.* Experience of apply theoretical knowledge of information systems by working full time or part time in the business, getting paid and with an academic supervision. The course will be fulltime for the student when it is a 4 credits section. 19-08-96

**SICI4999 - Cooperative Education Experience II.**

*Two to Four credits. Regular academic semester: student must work 20-30 hours per week for three credits.* Advanced experience of applying theoretical knowledge of computer information systems to a preferably fulltime work situation with academic supervision. The course will be full time for the student when it is a 4 credits section.

**SICI5015 - Big Data Concepts and Applications.**

*Three credits. Three hours of seminar per week Prerequisites: SICI4015, ESTA3042*

Study and practical use of the technology, tools, and techniques for the management and analysis of data of great volumes and variety of formats (big data). Technology used to capture and distributed or elastic storage of large amounts of data received either in batch or streaming modes. Parallel processing and tools for analysis of this type of data. Machine learning and its use for analysis of big data. Predictive and prescriptive algorithms for analysis of big data. Analysis of semi-structured and unstructured data such as text and images.

**SICI5250 - Enterprise Resource Planning Systems.**

*Three credits. Three hours of seminar per week Prerequisites: SICI 3211 OR EQUIVALENT, CONT 3105 OR EQUIVALENT. GRADUATE STUDENT MUST HAVE PERMISSION FROM THEIR PROGRAM DIRECTOR.*

Through individual and collaborative research, the characteristic of enterprise resource planning, systems, as well as their importance within organizations and the resources required for the effective operation of these systems will be studied. the necessary steps for the implementation of an enterprise resource planning

system and the required tasks and resources for each step will be discussed. the typical modules of an enterprise resource planning system, the functions performed by these modules will be discussed. The course is oriented towards the student's research and in-class application of the concepts and techniques, through the completion of a project in which the student will configure and implement an enterprise resource planning system using a tool typical to the industry, such as SAP.

## **SCHOOL OF ARCHITECTURE**

### **ARQU3000 - Basic Mathematics.**

*No credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE SCHOOL.*

Introductory course for architecture students. Basic concepts in algebra, geometry and trigonometry.

### **ARQU3001 - Design II.**

*Five credits. Six hours of lecture per week Prerequisites: ARCH 3031-3032.*

Problems in two and three dimensional designs. Materials and techniques of visual and plastic expression.

### **ARQU3002 - Design II.**

*Five credits. Six hours of lecture per week Prerequisites: ARCH 3031-3032.*

Problems in two and three dimensional designs. Materials and techniques of visual and plastic expression.

### **ARQU3005 - Interior Design.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCH 3032.*

to develop an awareness of the specific problems in the solution and integration of the interior spaces to the total architectural design.

### **ARQU3006 - Latin American Architecture 1500-1800.**

*Three credits. Three hours of lecture weekly Prerequisites: ARCH 3051-3052.*

A comparative study of the architectural solutions in different geographical areas of Latin America, in response to such problems as; urbanism, missionary architecture, cathedrals, parish churches, pilgrimage churches, public buildings, houses, military architecture, pre-columbian and European influences.

### **ARQU3007 - Architectural Typology.**

*Three credits. Three hours of lecture per week Prerequisites: ONE YEAR IN ARCHITECTURE.*

The course will be based on analysis, interpretation and re-interpretation (at a conceptual level) of historical precedents. It's emphasis will be thematic, not chronologic. Architecture will be related to the diverse fields of art: literature, music, paint, etc. Among the typological aspects to be studied, those related to the different design projects assigned on the studio courses will be discussed.

### **ARQU3008 - Language of Photography.**

*Three credits. Two hours of lecture and three of laboratory work per week Prerequisites: ARCH 3071 OF PERMISSION OF THE DEAN.*

The potential of photography for recording and expressing the visual experience. Development of the ability to use a camera to capture the environment with expressiveness, creativity and imagination.

### **ARQU3009 - Architectural Model Techniques.**

*Two credits. Four hours of laboratory work per week Prerequisites: PERMISSION OF THE DEAN OF THE DEPARTMENT.*

A study of construction techniques and of analysis and selection of materials, both traditional and modern, which are suitable for making scale models. Creative use of tools, materials and procedures as a means of broadening design processes and the determination of a correct relationship between concepts and media. (c)

**ARQU3011 - Graphic Composition.**

*Three credits. Six hours of lecture per week Prerequisites: PERMISSION OF THE DEAN OF THE FACULTY.*

A study of visual abstraction based on graphic images. It aims to create in the future architect an awareness of visual meanings and composition through the synthesis of graphic imagery.

**ARQU3012 - Graphic Composition.**

*Three credits. Three hours of lecture per week and three of laboratory per week Prerequisites: ARCH 3011.*

Introduction to intaglio and serigraphy techniques.

**ARQU3015 - Field Work Seminar.**

*Three credits. Four hours of laboratory work per week Prerequisites: THE SUBJECT OF THE PROJECT WILL DETERMINE THE*

Study of an area within or related to architecture and not included in the curriculum. Topics must be selected by the students and their professor. This course can be taken up to four times (twelve credits) under different themes. (c) theme: freehand drawing. Face-to-face, hybrid and online. Theme: introduction to sustainable design + leed. Face-to-face, hybrid and online. Theme: design. Face-to-face, hybrid and online.

**ARQU3016 - Field Work Seminar.**

*Two credits. Two hours of laboratory per week Prerequisites: THE SUBJECT OF THE PROJECT WILL DETERMINE THE*

Study of an area within or related to architecture and not included in the curriculum. Topics must be selected by the student and their professor. Course face-to-face, hybrid and online modalities.

**ARQU3018 - Workshop: Directed Research.**

*Two credits. Two hours of laboratory work per week Prerequisites: THE SUBJECT OF THE PROJECT WILL DETERMINE THE*

Research of the course material to promote knowledge of the selected area and enrichment of the curriculum.

**ARQU3019 - Introduction to Landscape Architecture.**

*Three credits. Three hours of lecture per week Prerequisites: HAVE TAKEN THIRD YEAR DESIGN.*

Lectures, seminars and research on historical aspects and the practice of landscape architecture.

**ARQU3021 - Visual Communication.**

*Three credits. Two hours of lectures and two hours of laboratory work per week.*

Analysis and experimentation with graphic techniques as an aid in communicating the architectural idea and the influence of visual phenomena upon perception. (c)

**ARQU3022 - Visual Communication.**

*Three credits. Two hours of lectures and two hours of laboratory work per week.*

Analysis and experimentation with graphic techniques as an aid in communicating the architectural idea and the influence of visual phenomena upon perception. (c)

**ARQU3025 - Introduction to Landscape Architecture.**

*Three credits. Three hours of lecture per week Prerequisites: HAVE TAKEN THIRD YEAR DESIGN.*  
Lectures, seminars and research on historical aspects and the practice of landscape architecture.

**ARQU3026 - Research and Design of Communities (I).**

*Three credits. Three hours of lecture per week.*

Pilot project for the summer practice course. Social, economic, and physical investigations; land uses, infrastructures, design of case studies; preliminary studies on housing problems.

**ARQU3027 - Research and Design of Communities (II).**

*Three credits. Three hours of lecture per week.*

Pilot project for the summer practice course. Social, economic, and physical investigations; land uses, infrastructures, design of case studies; preliminary studies on housing problems.

**ARQU3030 - Special Seminar on Architectural Design.**

*Five credits. Sixteen hours of workshop and laboratory work per week Prerequisites: PERMISSION OF THE DEAN.*

Seminar on architectural design through which a student may improve deficiencies found by the faculty in his/her developments as designer, pursue special interests of academic value in the design field, or both.

**ARQU3031 - Design I.**

*Five credits. Six hours of lecture per week.*

Problems in two and three dimensional designs. Materials and techniques of visual and plastic expression. (c)

**ARQU3032 - Design I.**

*Five credits. Six hours of lecture per week.*

Problems in two and three dimensional designs. Materials and techniques of visual and plastic expression. (c)

**ARQU3041 - Mathematics I for Architects.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3000 OR PERMISSION OF THE DEAN OF THE FACULTY.*

The purpose of this course is to develop the student's ability to reason in mathematical terms and to give him an understanding of the fundamentals of algebra and plane trigonometry. Applied exercises. (c)

**ARQU3042 - Mathematics II for Architects.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3000 OR PERMISSION OF DEAN.*

The purpose of this course is to develop the student's ability to reason in mathematical terms and to give him an understanding of the fundamentals of algebra and plane trigonometry. Applied exercises.

**ARQU3045 - Mathematics I.**

*Four credits. Four hours of lecture per week Prerequisites: ADMISSION TO THE ARCHITECTURE PROGRAM.*

Four credits. Four hours of lecture per week Prerequisites: ADMISSION TO THE ARCHITECTURE PROGRAM.

**ARQU3046 - Mathematics II.**

*Four credits. Four hours of lecture per week Prerequisites: ARCH 3045.*

Basic concepts of calculus for students of architecture. Rate of change the derivative as a special limit and its geometrical interpretation. Rules for differentiation. Applied maximum and minimum. Curve sketching. the antiderivative. the fundamental theorem of calculus. Definite integral. Areas and volumes using calculus. (c)  
this course will be offered face-to-face, hybrid and online modalities.

**ARQU3051 - History of Art for Architects.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3202 AND 3012.*

Three credits. Three hours of lecture per week Prerequisites: HUMA 3202 AND 3012.

**ARQU3052 - History of Art for Architects.**

*Three credits. Three hours per week Prerequisites: HUMA 3202 AND 3012.*

Three credits. Three hours per week Prerequisites: HUMA 3202 AND 3012.

**ARQU3061 - Advanced Seminar of the History of the Art.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3051-3052.*

An investigation of the theoretical basis for different styles (which may vary each term), its motivations, cultural implications and means of production relative to time and place. An inquiry into theories of art and methods of interpretation and criticism. (c)

**ARQU3062 - Advanced Seminar of the History of the Art.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3051-3051.*

An investigation of the theoretical basis for different styles (which may vary each term), its motivations, cultural implications and means of production relative to time and place. An inquiry into theories of art and methods of interpretation and criticism.

**ARQU3071 - Basic Photography for Architects.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: PERMISSION OF THE DEAN OF THE FACULTY.*

Basic principles of photography. Composition, use of camera, studio and lighting techniques. Architectural model photography; processing and enlarging. Laboratory practice, including color, and black and white.

**ARQU3072 - Advanced Photography for Architects.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCH 3071.*

Advanced techniques in photography and composition. Use of specialized photographic equipment.

Advanced laboratory techniques including color and black and white. Principles of cinematography and other audiovisual techniques.

**ARQU3081 - Mathematics III for Architects.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3042.*

Basic concepts and differentiation and integration. Rigorous application of these concepts to the solution of problems. Maximum and minimum. Plane analytical geometry and its relation to calculus. Graphics. Polar coordinates. Vectors. (c)

**ARQU3082 - Mathematics IV for Architects.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3042.*

Basic concepts and differentiation and integration. Rigorous application of these concepts to the solution of problems. Maximum and minimum. Plane analytical geometry and its relation to calculus. Graphics. Polar coordinates. Vectors. (c)

**ARQU3091 - Painting I for Architects.**

*Three credits. Three hours of laboratory per week Prerequisites: PERMISSION OF THE DEAN.*

Introduction to the techniques and purpose of painting. Analysis of the formal elements of painting through theoretical and practical demonstrations. Execution of original works which will allow the student's personal expression and attitude to be demonstrated.



**ARQU3092 - Painting II for Architects.**

*Three credits. Three hours of laboratory per week Prerequisites: PERMISSION OF THE DEAN.*

Introduction to the techniques and purpose of painting. Analysis of the formal elements of painting through theoretical and practical demonstrations. Execution of original works which will allow the student's personal expression and attitude to be demonstrated.

**ARQU3101 - Computer Applications and Systems in Architecture.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCH 3081-3082.*

Computer applications and systems in architecture. Computer techniques as aids in the investigation and professional applications in architecture. Elements of a programming language (fortran) as an interactive of man-machine communication tool.

**ARQU3102 - Computer Applications and Systems in Architecture.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCH 3081-3082.*

Computer applications and systems in architecture. Computer techniques as aids in the investigation and professional applications in architecture. Elements of a programming language (fortran) as an interactive of man-machine communication tool.

**ARQU3110 - Introduction to the Relations Between Art, Design and Intervention Contexts.**

*One credits. One hour of lecture per week.*

Entry course of the minor concentration in art, design and intervention contexts. In-depth review of the practical and conceptual relationships between fine arts and architecture while exploring practice on issues related to the arts, design and perception and understanding of public space. This course will be offered face-to-face, hybrid and online. Effective January 2021.

**ARQU3121 - Introduction to Architecture I.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE SCHOOL OF ARCHITECTURE OR AUTHORIZATION OF THE DEAN.*

Panoramic vision of the profession of architect and its role in the society. Definition of architecture and the architectural vocabulary. the human being as means and center of the architectural endeavor. Principles that affect human behavior in its interaction with the environment and the architectural space. (c)

**ARQU3122 - Introduction to Architecture II.**

*Two credits. Two hours of lecture per week Prerequisites: ARCH 3121.*

Introduction to determinants of the architectural form: history and culture, historical precedent and typology in architecture, climate, topography landscape and vegetation; materials, structure and constructive systems; the client and the design program. Interaction of these factors with the human being and the architectural space. (c)

**ARQU3131 - Design Fundamentals I.**

*5 credits. Two hours of lecture and ten hours of laboratory work or workshop per week Prerequisites: ADMISSION TO THE SCHOOL OF ARCHITECTURE OR AUTHORIZATION OF THE DEAN.*

Introduction to the elements, principles, and the process of design. Basic principles of composition in two and three dimensions. Application of the basic principles of design to the problem solving process. Principles and techniques in the bidimensional and tridimensional representation, graphic communication and descriptive geometry. Technical and free-hand drawing. (c)

**ARQU3132 - Fundamentals of Design II.**

*5 credits. Two hours of lecture and 10 of workshop per week Prerequisites: ARQU3131.*

Application of basic design principles in problem solving. Techniques of bidimensional and tridimensional representation in graphics and descriptive geometry. Freehand and technical drawing.

### **ARQU3134 - Elemental Architectural Design.**

*5 credits. Prerequisites: ARQU-3122, ARQU-3133.*

Introduction to the processes and strategies of architectural design. Elementary level exercises analyzing the components of architectural piece along with its formal determinants: the human being, the handling of space, spatial, sequence and circulation; the fundamental elements of architectural piece such as beams, columns, walls, roof and floor slabs, openings, ramps and staircases, facade composition; climate, landscape and topography, materials, structure, and construction techniques; along with client and program needs. Develop the capacity for bi-dimensional and three-dimensional graphic skills applied to architecture.

### **ARQU3222 - Design, Innovation and Future.**

*Three credits. Three hours of seminar per week.*

Theoretical seminar on innovation from the point of view of design is explored as a tool that uses creativity to shape the future. the course will provide the opportunity to evaluate case studies where design is an integral part of disruptive processes that forge innovation in different environments. Face-to-face and hybrid course.

### **ARQU3223 - Brand Design.**

*Two credits. Two hours of seminar per week.*

The course introduces students to the study of the conceptualization and development of product and service brands. It outlines the most relevant principles for understanding these two great issues. It provides the tools to start the development of a competent brand that can current/ digital market of the new internet era. Provides contemporary knowledge of the creative branding/ brand design industry. Course face-to-face, and online course.

### **ARQU3224 - Digital Rototyping and 3D Printing Techniques.**

*Three credits. Three hours of seminar per week.*

Seminar on the study of additive systems and technologies, and their integration into product design. It focuses on the use of prototyping technologies as a mediator in the design process and as a physical result. It confronts the student with the exploration and analysis of digital manufacturing and its particular properties in order to understand the innovation potential of these tools. As a methodology, the intelligent use of various additive digital manufacturing methods is proposed. the properties of various materials and their possible emerging and innovative applications in design are investigated. It proposes discussions that revolve around the pros and cons of applications of these technologies and of different manufacturing methods to achieve rapid prototyping in an efficient and effective way. Students will evaluate, discuss, and develop proposals relevant to the discussion topics of the course. Face-to-face and hybrid course. New descriptions began on August 2023.

### **ARQU3310 - Project Development: Between Art, Design and Intervention Contexts.**

*Two credits. Two hours of workshop per week Prerequisites: ARQU 3110 AND ARTE 3110.*

Exit course of the minor concentration in art, design and intervention contexts. In-depth review of the practical and conceptual relationships between fine arts and architecture while exploring practice on issues related to the arts, design and perception and understanding of public space.

### **ARQU3521 - Physics I.**

*3 credits. Three hours of lecture per week Prerequisites: ARCH 3045, ARCH 3046.*

Basic concepts of applied physics for students. Physical units, forces and vectors. Equilibrium. Newton's laws and their application to dynamics. Kinematics: rectilinear motion work and conservation of energy. Impulse and momentum conservation. Projectile motion. Rotation of solid bodies. Vibratory motion. Hydrostatics and elementary fluid dynamics. Properties of materials. Demonstration of physical principles in class.

### **ARQU3522 - Physics II.**

*3 credits. Three hours of lecture per week Prerequisites: ARCH-3521, ARCH-3046.*

Basic concepts of physics for student of architecture. Wave motion. Sound. Heat and temperature. Thermodynamics. Elementary atomic theory. Electricity and magnetism. Electrical circuits. Electromagnetic waves. Theory of light. Geometrical optics. Demonstration of physical principles in class.

### **ARQU3615 - Architectural Representation and Visualization.**

*Three credits. One hour of lecture and two hours of workshop per week.*

Introductory course to techniques and tools for architectural representation and visualization with a focus on digital media. This course aims to promote in the student the necessary skills for the right visualization and representation of the architectural space. the skills acquired in this course will help the student to represent their ideas and projects in design courses. This course will be offered under the face-to-face, hybrid and online modalities.

### **ARQU3905 - Introduction to Acoustics.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: PHSC 3001-3002, MATH 3016.*

the basic principles of acoustics as applied science, emphasizing both the physical and psycho-physical aspects of the subjects. Class demonstration will be amply utilized to establish the connection between the physical descriptions and the sensory phenomena.

### **ARQU4001 - Architectural Design-elementary.**

*Five credits. Eight hours of laboratory per week Prerequisites: ARCH 3002.*

First course of a series on a architectural design required by the program of architecture. (c)

### **ARQU4002 - Architectural Design-elementary.**

*Five credits. Eight hours of laboratory per week Prerequisites: ARCH 3002.*

Second course of a series on architectural design required by the program of architecture. (c)

### **ARQU4005 - History of Architecture I.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3051-3052.*

Study of the history of architecture up to the roman empire. Emphasis upon aesthetic, physical, ideological, and social considerations. (c)

### **ARQU4006 - History of the Architecture II.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3051-3052.*

Study of the history of architecture during the middle ages. Emphasis upon aesthetic, physical, ideological, and social considerations. (c)

### **ARQU4007 - History of Architecture III.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH4006.*

A methodological approach and analysis. Architecture and the physical and cultural environment. Spatial, technological and figurative (decorative) analysis of architectural works representative of the period. (c)

**ARQU4008 - History of Architecture IV.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3051-3052.*

A methodological approach and analysis. Architecture and the physical and cultural environment. Spatial, technological and figurative (decorative) analysis of architectural works representative of the period. (c)

**ARQU4009 - Study Trip for Architects.**

*Three credits. Forty hours of research Prerequisites: ARCH 4007-4008.*

An experience with the external world in which there is a search for a study of architectural values in direct confrontation with the works or in field practice. (c)

**ARQU4010 - Preparation for Architectural Study Trip.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE PROFESSOR.*

to prepare students for architectural study trips to other countries. Skills are developed in on site graphical documentation and analysis. Research methods. Lectures will be given and readings assigned regarding the history and architectural development of the sites to be visited. (c)

**ARQU4011 - Architectural Design-intermediate.**

*Five credits. Eight hours of laboratory work per week Prerequisites: ARCH 3113, 3082, 4002.*

Third course of a serie of architectural design required by the program of architecture. (c)

**ARQU4012 - Architectural Design-intermediate.**

*Five credits. Eight hours of laboratory work per week Prerequisites: ARCH 4011, 4016, 4021.*

Fourth course of a serie of architectural design required by the program of architecture. (c)

**ARQU4015 - Study Trip for Architects.**

*Three credits. Forty hours of research Prerequisites: ARCH 4009.*

An experience with the external world in which there is a search for a study of architectural values in direct confrontation with the works or in field practice. (c)

**ARQU4016 - Architectural Technology I.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: ARCH 3112, 3114, 3082.*

Introduction to the study of the environment, including topography, climate, orientation, landscape, etc. (c)

**ARQU4017 - Architectural Technology IIa.**

*Two credits. One hour of lecture and two hours of laboratory work per week Prerequisites: ARCH 4016.*

Continuation of an introduction to non-mechanical environmental control, with special emphasis on topics such as: hygiene, light and sound. (c)

**ARQU4018 - Architectural Technology IIb.**

*Two credits. One hour of lecture and two of laboratory work per week Prerequisites: ARCH 4016.*

Introduction to the study of building materials with emphasis on land and concrete. (c)

**ARQU4019 - Architectural Technology III.**

*Two credits. One hour of lecture and two hours of laboratory work per week Prerequisites: ARCH 4017-4018.*

Techniques of environmental analysis and construction emphasizing the values of land, space, human activities, light, sound, hygiene, power and building materials as means of architectural expression. (c)

**ARQU4025 - Architectural Technology IV.**

*Three credits. One hour of lecture and two hours of laboratory work per week Prerequisites: ARQU 4017-4018.*

Techniques of environmental analysis and construction emphasizing the values of land, space, human activities, light, sound, hygiene, power and building materials as means of architectural expression. (c)

#### **ARQU4026 - Working Drawing and Specifications.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCH 4025.*

Development of a complete set of architectural working drawings. Partial development of working drawings with electrical, structural and mechanical specifications.

#### **ARQU4030 - Seminar on Intermediate Architectural Design.**

*Five credits. Sixteen hours of workshop and laboratory work per week Prerequisites: PERMISSION OF THE DEAN OF ARCHITECTURE, ARCH 4002 OR ITS EQUIVALENT.*

Seminar on intermediate architecture design through which a student may step-up his/her development as a designer, pursuing special interest of academic value and reviewing in greater depth topics and areas covered in other design courses.

#### **ARQU4031 - Structures III.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCH 4022.*

Introduction to the study of structural systems. Loads, safety factors. Dimensioning of structural members. (c)

#### **ARQU4032 - Structures IV.**

*Three credits. Two hours of lectures and two of laboratory work per week Prerequisites: ARCH 4022.*

Introduction to the study of structural systems. Loads, safety factors. Dimensioning of structural members. (c)

#### **ARQU4036 - Daylight in Architecture.**

*Three credits. Two hours of lecture per week Prerequisites: ARCH 4017.*

Influences of the modifications of the architectural form and the environmental design in the natural illumination of buildings to fulfil the perceptive necessities of the human being. Concepts, methods and analytical procedures fundamental to its utility to design adequate day-lighted spaces.

#### **ARQU4037 - Natural Ventilation in Architecture.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: ARCH 4017, 4312.*

Influences of the modifications of the architectural form and the environmental design in the natural ventilation, and its implications in the thermal comfort of the human being, with emphasis in the particularities of the hot humid climate. Concepts methods and analytical procedures fundamental to its utility to design natural ventilated spaces.

#### **ARQU4045 - Theory of Architecture I.**

*1 credit. One and a half hours of lecture per week Corequisites: ARCH-4133.*

Introduction to the phenomenological concept of the building task and the effects that the environment, region and culture have upon the work of architecture.

#### **ARQU4046 - Theory of Architecture II.**

*1 credit. One hour and a half of lecture per week Prerequisites: ARCH-4045 HUMA-3012. Corequisites: ARCH-4134.*

the form of architecture since its inception. the historical and technical determinants of form. (c)

### **ARQU4047 - Theory of Architecture III.**

*1 credit. One hour and a half of lecture per week Corequisites: ARCH-4135.*

Technique and architectural expression: materials, structure, organizational systems and how these reflect the aspirations of a society. (c)

### **ARQU4048 - Theory of Architecture IV.**

*1 credit. One hour and a half of lecture per week Corequisites: ARCH-4136.*

Content of the architectural work: symbolism, meaning, semiotics and architectural representation. (c)

### **ARQU4115 - Introduction to Professional Practice.**

*Three credits. Three hours of lecture per week Prerequisites: TO BE ACCEPTED IN THE PROGRAM*

This course exposes students to the role of the architect in both society and the construction industry. They will be introduced to the architect as designer, manager, and quality controller of the process, as a leader of the construction process and their relationship to other components of the industry it will receive the nature of their formation, from academia to practice, the nature of this practice, and the relationship of it with legal and professional factors, economical and technical aspects that affect it. the students will be presented with the main laws that regulate the profession, have an introduction to ethical principles and professional options to the traditional practice of architecture. After completing the course, students will be able to understand the role of the architect in the construction industry, their duties and responsibilities, stakeholders involved and their relationship with them, and will have general knowledge of the regulation of activities of the practice and nature.

### **ARQU4133 - Intermediate Architectural Design I.**

*5 credits. Two hours of lecture and ten hours of workshop per week Prerequisites: ARQU-3134. Corequisites: ARQU-4045.*

Development of the processes and strategies of architectural design applied to projects of intermediate complexity. Emphasis in the formulation of architectural concepts and form determinants, and in the analysis and design of the site.

### **ARQU4134 - Intermediate Architectural Design II.**

*5 credits. Two hour lecture and ten hours of workshop per week Prerequisites: ARQU-4133. Corequisites: ARQU-4046.*

Development of the processes and strategies of architectural design applied to projects of medium complexity. Emphasis in the formulation of architectonic concepts and form determinants, as well as structural, construction, and natural technology, as architectural proposals are formulated (c)

### **ARQU4135 - Intermediate Architectural Design III.**

*5 credits. Two hours of lecture and ten hours of workshop per week Prerequisites: ARQU-4134, ARQU-4212, ARQU-4312, ARQU-4322. Corequisites: ARQU-4047.*

Two hours of lecture and ten hours of workshop per week Prerequisites: ARQU-4134, ARQU-4212, ARQU-4312, ARQU-4322. Corequisites: ARQU-4047.

### **ARQU4136 - Intermediate Architectural Design IV.**

*5 credits. Two hours of lecture and ten hours of workshop per week Prerequisites: ARQU-4135, ARQU-4213, ARQU-4313, ARQU-4323. Corequisites: ARQU-4048.*

Further development of the processes and strategies or architectural design applied to projects of medium complexity. Emphasis in the development of architectural concepts and programs of such complexities as to

require the coordination of vertically related functions, and mechanical and structural systems. (c)

**ARQU4145 - Research Techniques in Architecture.**

*Two credits. Two hours of lecture per week Prerequisites: ADMISSION TO THE BA PROGRAM*

The course exposes the students to the fundamental concepts and research methods for its application to the field of architecture. The course, through practical exercises, assists students to develop skills and competences in research techniques to learn to define a problem, establish a theoretical reflection and define research methods, while selecting and using tools that enable them to rigorously develop research based on data collection and analysis. The students are exposed to guidelines on basic writing and style, to the correct use of images, and to the use of available bibliographic resources, through the search in local and international databases in addition, they are exposed to support workshops offered by the staff and technical resources of the library while learning and understanding the ethical and legal implications regarding the use of information. Course face-to-face, hybrid and online modalities.

**ARQU4146 - Theory and Criticism of Architecture.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU4213*

This course explores architecture theory emphasizing intersections with other academic disciplines. Authors, images, plans and buildings will be studied through both architecture theoretical perspectives and the analysis framework that sciences and humanities can bring forth in order to better understand dilemmas of the built environment. At the end of the course students will be able not only to understand what architecture theory is about but to propose questions of their own and to define well informed agendas for interpreting design proposals within contemporary challenges. This course will be offered face-to-face, hybrid and online. Effective January 2021.

**ARQU4147 - Fundamentals of Integrated Practice for Resilient and Sustainable Infrastructure.**

*Three credits. Three hours of lecture per week.*

The course focuses on the implications of natural disasters on the design and construction processes, including the human factors, for solving problems of the design team. Study of the relevant dimensions for resilient and sustainable design and construction solutions from the perspective of integrated project delivery (ipd). Hybrid course

**ARQU4211 - History of Architecture 1: Invention of Classical Architecture.**

*3 credits. Three hours of lecture per week Prerequisites: ARQU3121 OR BY SPECIAL PERMISSION*

This course presents a panoramic view of western architecture from its origins in the cities of Mesopotamia and Egypt, the classical architecture of Greece and Rome, to the architecture of the Paleo-Christian era, Byzantium and the Romanesque. Through discussion and comparative analysis of both built works and texts, the course will explore continuities as well as differences in the building practices of the different periods, regions and cultures studied promoting a critical understanding of the foundations and early development of western architecture and deeper understanding of both the concepts and the contemporary interpretations of the architecture of antiquity.

**ARQU4212 - History of Architecture 2: Renaissances.**

*3 credits. Three hours of lecture per week Prerequisites: ARQU4211*

This course explores the constructive, aesthetic, and production transformations in the architecture of the Romanesque and Gothic, of Al-Andalus and Pre-Columbian Mesoamerica, of the Italian Renaissance, Baroque and Rococo, and the Enlightenment. The course focuses on how advances in human knowledge shaped modern thought and with it the production of architecture and the built environment.

**ARQU4213 - History of Architecture 3: Architecture and Modernity.**

*3 credits. Three hours of lecture per week Prerequisites: ARQU 4211-4212*

This is a panoramic course that explores the architecture of the 19th and 20th centuries as a reflection of socio-cultural processes such as modernization. Industrialization, immigration and the social and political conflicts that have shaped world history during the past century. Class content will include the enlightenment and the industrial revolution as antecedents for modernity, the turn-of-the century. European vanguards, the architecture of the modern movement and its post-war transformation, postmodernism in architecture, and an overview of the contemporary architectural scene. These will be framed in different movements and schools of thought, as well as in the interdisciplinary crossroads that have shaped architectural thinking and production.

#### **ARQU4214 - History of Architecture IV.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 4211, 4212, 4213.*

Fourth course of the architectural history sequence. Outstanding examples of architectural endeavor, traditions and cultural values; theories and principles that have shaped architecture, art and urbanism of western civilization, including the American continent. Methodological principles of historical research. Critical analysis of architectural heritage is encouraged as a resource for design process. The modern and contemporary periods since mid-nineteenth century are explored. (c)

#### **ARQU4215 - History and Theory of Architecture in Latin America.**

*3 credits. Three hours of lecture per week Prerequisites: ARQU4214 OR PERMISSION*

Is a panoramic course on Latin American architecture and urban development from the pre-colombian era to our times. the course, both thematic and chronological, is structured utilizing the geographical regions of Latin America- the Caribbean, Mexico and central America, the Andean region, Brazil, and South America's southern tip as a framework for exploring and understanding the differences and common threads that distinguish the architecture and urban development of each region.

#### **ARQU4310 - Introduction to Technology.**

*Three credits. Three hours of lecture per week Prerequisites: TO BE ACCEPTED TO THE PROGRAM*

This course deals with the tools and current methodologies in construction technology and its integration into architectural design. Through a series of lectures and readings from various texts, the student will be exposed to the different options available to deal with analytical problems, development of construction documents, materials selection, and management of structural and mechanical systems. the course will examine the different structural systems, materials, and construction systems that are used in buildings, and will become familiar with the use of those technologies and their evolution, from antiquity to the present, emphasizing those developments achieved in recent times.

#### **ARQU4311 - Architectural Technology I.**

*3 credits. Arch-3045, arch-3046.*

The human being and his interrelation with the environment. Concepts of the natural environment and its modification for the welfare of the human being passive or natural systems of environmental control with emphasis on the particularities of the hot and humid tropics. Applications of these principles in architectural design. Course face-to-face, hybrid and online modalities.

#### **ARQU4312 - Technology II.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 4311.*

Considerations with respect to site analysis and site work: constraints and requirements for site selection and improvement, soil, testing, drainage, grading and earthwork. Building materials and methods: its nature, properties processing, behavior and finishing characteristics. (c) this course will be offered face-to-face, hybrid and online. Effective January 2021.



**ARQU4315 - Environment and Urban Sustainability.**

*Three credits. Three hours of seminar per week Prerequisites: ARQU 4312.*

The course "environment and urban sustainability" is designed for students passionate about social and environmental issues, eager to develop innovative responses to the challenges facing urban centers. The course will cover basic concepts of sustainability and ecology, as well as current trends and methodologies for understanding, configuring, planning, designing and adapting urban design in sustainable terms, with particular attention to Latin America and the Caribbean. Conceptual and practical tools will be taught to recognize ways to optimize resources and take advantage of climatic and geographic conditions in design. The aim is promoting the social and environmental ethic in the student community. In this sense, the purpose is to understand that if the problems facing urban and rural regions have roots in the cities, then, solutions must also be sought there.

**ARQU4321 - Structures I.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 3046 AND ARQU 3522.*

Introduction to the study of structures. Principles and concepts of statics and strength of materials. Study of force systems and laws of static equilibrium. Types of supports and their reactions, the use of free body diagrams in the analysis of structures. Axial unit stresses and axial deformations. The stress-strain curve of a material and temperature stresses. Mechanical properties of materials. Application of these concepts to the analysis of simple structures, trusses, space trusses, hydrostatic pressure and static friction. (c) course face-to-face, hybrid and online modalities.

**ARQU4322 - Structures II.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 4321.*

Continuation of the study of strength of materials. Design loads and code requirements. Shear and bending moment in beams, shear and moment diagrams. Bending and shear stresses. Beam deflections. Application of these concepts to wood and steel beams. Columns, buckling of columns. Dead, live, and lateral loads. (c) course face-to-face, hybrid and online modalities.

**ARQU4323 - Structures III.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 4321, ARCH 4322.*

Structural analysis. Concepts of stability and statical determination. Analysis of indeterminate structures. Method of redundant reaction. Moment distribution. Approximate methods for continuous beams. The portal method for lateral loads. (c) course face-to-face, hybrid and online modalities.

**ARQU4324 - Structures IV.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 4323.*

Fourth course in the sequence of structures for architects. Design of reinforced concrete structures. Properties of reinforced concrete structures. Properties of reinforced concrete. Analysis and design of one-way slabs, beams, columns and walls. Discussion of the ACI code. Applications. (c)

**ARQU4612 - Landscape Architecture.**

*Three credits. Three hours of seminar per week.*

This course introduces students with the basic concepts, theories and design strategies that dominate in the landscape architecture profession. The history and theoretical concepts that influence the discipline, and its applied principles, through which our environment is shaped and defined will be explored. Students will learn to identify socio-environmental issues and landscape architecture interventions to address and solve issues with a focus on environmental conservation. This course will be offered under the face-to-face, hybrid and

online modalities.

**ARQU4614 - Heritage Conservation of Architecture: History and Theory of Conservation Heritage Conservation.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

This course provides the student with an understanding of the history, theories, methodologies and practice of historical preservation. It is based on historical conservation as the result of an evolutionary and changing process, reflecting and individual and a community. Philosophical, practical and legal issues will be discussed, among others. This course will be offered under the face-to-face, hybrid and online.

**ARQU5005 - Cad Workshop I.**

*3 credits. One hour of lecture and two hours of laboratory work per week Prerequisites: ARQU 3101-3102 OR PERMISSION OF THE PROFESSOR.*

The use of computers in the production of presentation and construction documents. Fundamental issues in cad that are common to all different systems; development of skills for the production of drawings and presentations; the integration of the product of different applications in the development of drawings and in the analysis of design projects. Course offered face-to-face, hybrid and online. Effective for January 2021.

**ARQU5006 - Computer Graphics.**

*3 credits. One hour of lecture and two hours of laboratory work per week Prerequisites: ARQU 3101-3102 OR PERMISSION OF THE PROFESSOR.*

Introduction to computer graphics programming and its applications. Fundamental issues concerning the design of algorithms and data structures to manipulate graphics using the "c" programming language, a gks (graphics kernel system) and a user interface toolkit like x-windows.

**ARQU5030 - Seminar on Advanced Architectural Design.**

*5 credits. Two hours of lecture and ten hours of workshop per week Prerequisites: PERMISSION OF THE DEAN.*

Seminar on advanced architectural design, through which a student may step-up his/her development as a designer, pursuing special interest of academic value and reviewing in greater depths topics and areas covered in other design courses. Course can be repeated a maximum of ten credits if the themes to be studied are different. (c)

**ARQU5995 - Research and Field Work Seminar.**

*One to Three credits. One to three hours per week Prerequisites: AUTHORIZATION OF PROGRAM COORDINATORS AND PROFESSOR.*

Seminar open to undergraduate and graduate students, directed towards research and field work on a specific topic that will promote knowledge on the subject and enrich the curriculum. (c) theme: fundamentals of differential and integral calculus. Face-to-face, hybrid and online. Theme: pre-columbian and colonial cities and architectures in Latin America. Face-to-face, hybrid and online. Theme: cure/show exhibition theory and practice. Face-to-face, hybrid and online.

**INCI5036 - Design-build Project Delivery.**

*Three credits. Prerequisites: PERMISSION FROM DEPARTMENT CHAIR.*

Discussion of the design-build project delivery process. Analysis of the dynamics of the design-build process for the development of resilient and sustainable infrastructure. Use of management techniques to capitalize on design-build's potential. Application of procurement methods that require interdisciplinary resilient and sustainable approaches.

**INTD3223 - Capstone Project.**

*One credits. One hour of project conclusion per week Prerequisites: INTD 3322.*

This course provides the necessary tools and training for the development of proposals, in order to facilitate the effective participation of students in calls from organization of the innovation development ecosystem, such as venture well or i-corps in the United States, parallel 18, trust for science, technology and research, i-corps Puerto Rico or enterprise (Grupo Guayacán), in Puerto Rico, among others. After taking the innovation and startup seminars, as well as design courses, the students have developed one or more projects that culminate in this course. Through mentoring and specific training in the writing of proposals and presentations, this course facilitates the transition from an academic project to a real entrepreneurial activity. This course will be offered face-to-face, and hybrid course.

### **INTD3321 - Seminar On Innovations: Theoretical and Applied Aspects for Their Commercialization.**

*Three credits. Three hours of seminar per week.*

This seminar is an introduction to the subject of innovation, both from a theoretical and applied approach. Participants will study the main theoretical aspects related to innovation in companies and organizations, as well as the different types of innovation. They will work with strategies and techniques to understand if an innovation is appropriate to the social and market needs. The seminar also introduces business models for the commercialization of innovations and analyses the decision-making processes in companies and organizations that lead them to innovate. They will experience the dynamics of innovation, use creative thinking techniques, conceive innovations in the context of markets and develop a plan to commercialize them effectively. It is expected that at the end of the seminar the participant will have developed a project that can be presented in national and international competitions of innovations. This course will be offered face-to-face, and hybrid course.

### **INTD3322 - Seminar on Startups: Theoretical and Applied of Innovation-based Ventures.**

*Three credits. Three hours of lecture per week Prerequisites: INTD 3321.*

Introduction to the development of innovation-based ventures, both from a theoretical and applied approach. Study of the fundamental theoretical aspects related to the creation of startups and analysis of the conceptual framework of business models. They will also learn techniques to validate the business idea, its viability and its scalability towards global markets. The process of venture development is also studied, either as companies or as public or cultural management organizations. They will study and work with a specific startup, analyze its dynamics and use techniques to evaluate essential aspects of its business models. They will also analyze whether they are scalable to international markets. Participants will learn techniques to effectively present startup projects to investors or their interested persons, in pitch and storytelling format. Face-to-face and hybrid course.

## **MILITARY SCIENCES**

### **CIMI3011 - Basic Course - First Year of Military Science I.**

*Two credits. Two lectures of one hour and one two-hour leadership workshop per week.*

This course provides a basic understanding of the organization, and of the different branches of the U.S. Army, customs and traditions of the military service, the role of the national guard and the reserves, first aid, and an introduction to basic military map reading. Leadership workshop in physical fitness, leadership principles and instruction in drill and military ceremonies.

### **CIMI3012 - Basic Course - First Year of Military Science II.**

*Two credits. Two lectures of one hour and one two-hour leadership workshop per week.*

Continuation of the principles of first aid, how to establish a physical fitness program, land navigation, small

unit tactics and development of leadership traits. Leadership workshop include the planning of small unit tactics, and conduct in drill and ceremonies, and participate in a physical fitness program.

**CIMI3021 - Basic Course - Second Year of Military Science III.**

*Two credits. Two one-hour lectures and one two-hour leadership workshop per week.*

The course includes intermediate military map reading, conversion of azimuth, intersection and resection, elevation and relief, terrain association, military correspondence, military leadership, organizational structure, and the role of the non-commissioned officer. Leadership workshop in drill and ceremonies, small unit tactics, and physical fitness program.

**CIMI3022 - Basic Course - Second Year of Military Science IV.**

*Two credits. Two one-hour lectures of one hour and one two-hour leadership workshop per week.*

This course includes the historical growth and development of the U. S. Army, from its origin to the present the principles of war and their application in U. S. Military history, basic small unit tactics, basic radio communications and Soviet military power. Leadership workshop includes tactics of small units and conduct in drill and ceremonies.

**CIMI3041 - Speaking and Understanding English in Today's Army (beginners Level).**

*One credits. Two hours of lecture per week Prerequisites: A placement test is required.*

This course is designed for those military science students who have demonstrated a limited proficiency in the English language in the English comprehension level test provided by the defense language institute, English language center at Lackland Air Base, San Antonio, Texas. Emphasis on pronunciation, reading comprehension, vocabulary and a general review of grammar.

**CIMI3042 - Speaking and Understanding English in Today's Army (beginners Levels).**

*One credits. Two hours of lecture per week Prerequisites: A placement test is required.*

This course is designed for those military science students who have demonstrated a limited proficiency in the English language in the English comprehension level test provided by the defense language institute, English language center at Lackland Air Base, San Antonio, Texas. Emphasis on pronunciation, reading comprehension, vocabulary and a general review of grammar.

**CIMI3043 - Speaking and Understanding English in Today's Army (intermediate Level).**

*One credits. Two hours of lecture per week Prerequisites: A placement test is required.*

This course is designed for those military sciences students who have demonstrated a limited proficiency in the English language in the English comprehension level test provided by the defense language institute, English language center at Lackland Air Base San Antonio, Texas. Emphasis on pronunciation, reading comprehension, vocabulary and a general review of grammar.

**CIMI3044 - Speaking and Understanding English in Today's Army (intermediate Level).**

*One credits. Two hours of lecture per week Prerequisites: A placement test is required.*

This course is designed for those military sciences students who have demonstrated a limited proficiency in the English language in the English comprehension level test provided by the defense language institute, English language center at Lackland Air Base, San Antonio, Texas. Emphasis on pronunciation, reading comprehension, vocabulary, and a general review of grammar.

**CIMI3051 - Speaking and Understanding English in Today's Army (advanced Level).**

*One credits. Two hours of lecture per week Prerequisites: A placement test is required.*

This course is designed for those military sciences students who have demonstrated a limited proficiency in the English language in the English comprehension level test provided by the defense language institute,

English language center at lackland air base, San Antonio, Texas. Emphasis on pronunciation, reading comprehension, vocabulary, and a general review of grammar.

**CIMI3052 - Speaking and Understanding English in Today's Army (advanced Level).**

*One credits. Two hours of lecture per week Prerequisites: A placement test is required.*

This course is designed for those military sciences students who have demonstrated a limited proficiency in the English language in the English comprehension level test provided by the defense language institute, English language center at lackland air base, San Antonio, Texas. Emphasis on pronunciation, reading comprehension, vocabulary, and a general review of grammar.

**CIMI4011 - Advanced Course - First Year of Military Science I.**

*Four credits. Two lectures of two hours and one two- hour leadership workshop per week, a leadership workshop one Saturday per month and a three- day (weekend) field training exercise.*

This course includes advanced individual military skills, advanced small unit tactics, command and staff functions and training management. Leadership workshops in drill, ceremonies, and command.

**CIMI4012 - Advanced Course - First Year of Military Science II.**

*Four credits. Two lectures of two hours and two-hour leadership workshop per week, a leadership workshop one Saturday per month and a five- day field training exercise during the easter academic recess.*

Advanced land navigation, physical fitness training, small unit tactics, drill and ceremonies, military radio operations, first aid, and training in basic rifle marksmanship. Leadership workshops in drill ceremonies and command.

**CIMI4021 - Second Year of Advanced Military Science III.**

*Four credits. Two lectures of two hours and one two-hour leadership workshop per week*

The course includes military ethics and their relation to leadership, the u. S. Army personnel management system command and staff functions, soviet military power, how to conduct military briefings, conferences and prepare military reports. Advanced small unit tactics, land navigation, leadership workshop in drill and ceremonies, and physical fitness training are included.

**CIMI4022 - Second Year of Advanced Military Science IV.**

*Four credits. Two lectures of two hours and one two-hour leadership workshop per week.*

The military logistics systems, the army's justice system, the transition to the officer's corps, military post and installation support, advanced physical fitness training, tactics of small units, land navigation, leadership workshop in drill and ceremonies, military communications and first aid.

**CIMI4040 - Military Writing.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR OF MILITARY SCIENCE.*

Practice in writing military letters, briefs and other documents.

**CIMI4041 - Military Writing I.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Practice in writing letters, forms and military documents.

**CIMI4042 - Military Writing II.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: CIMI. 4041.*

Practice in writing letters, forms and military documents.

**ESAE3001 - the Air Force Today.**

*Two credits. One hour of classroom instruction and one hour of leadership laboratory.*

The course deals with the air force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces, and aerospace support forces.

**ESAE3002 - the Air Force Today.**

*Two credits. One hour of classroom instruction and one hour of leadership laboratory Prerequisites: AEST 3001.*

The course deals with the air force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces and aerospace support forces.

**ESAE3011 - the Development of Air Power.**

*Two credits. One hour of classroom instruction and one hour of leadership laboratory.*

The course includes a study of the development of air power from balloons and dirigibles through the peaceful employment of u. S. Air power in relief missions and civic action programs in the late 1960's and also the air war in southeast Asia.

**ESAE3012 - the Development of Air Power.**

*Two credits. One hour of classroom instruction and one hour of leadership laboratory Prerequisites: AEST 3011.*

The course includes a study of the development of air power from balloons and dirigibles through the peaceful employment of u. S. Air power in relief missions and civic action programs in the late 1960's and also the air war in southeast Asia.

**ESAE4001 - Air Force Management and Leadership.**

*Four credits. Three hours for classroom instruction and one hour for leadership laboratory.*

This is an integrated management course emphasizing the individual as a manager in an air force milieu. the individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer (officership). the basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts. Organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual air force cases are used to enhance the learning and communication processes.

**ESAE4002 - Air Force Management and Leadership.**

*Four credits. Three hours for classroom instruction and one hour for leadership laboratory Prerequisites: AEST 4001.*

This is an integrated management course emphasizing the individual as a manager in an air force milieu. the individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer (officership). the basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts. Organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual air force cases are used to enhance the learning and communication processes.

**ESAE4011 - National Security Forces in Contemporary American Society.**

*Four credits. Three hours for classroom instruction and one hour for leadership laboratory.*

A full year course focused on the armed forces as an integral element of society, with an emphasis on American civil-military relations and the context in which u. S. Defense policy is formulated and implemented. Special themes include: societal attitudes toward the military; the role of the professional military leader-manager in a democratic society; the values and socialization processes associated with the armed service; the requisites for maintaining adequate national security force; political, economic and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; the variables involved in the formulation and implementation of national security policy; and military justice. In each semester, students will be expected to prepare individual and group presentations for the class, write reports, and otherwise participate in group discussions, seminars and conferences.

**ESAE4012 - National Security Forces in Contemporary American Society.**

*Four credits. Three hours for classroom instruction and one hour for leadership laboratory Prerequisites: AEST 4011.*

A full year course focused on the armed forces as an integral element of society, with an emphasis on American civil-military relations and the context in which u. S. Defense policy is formulated and implemented. Special themes include: societal attitudes toward the military; the role of the professional military leader-manager in a democratic society; the values and socialization processes associated with the armed service; the requisites for maintaining adequate national security forces; political, economic and social constraints on the national defense structure; the impact of technological and international development on strategic preparedness; the variable involved in the formulation and implementation of national security policy; and military justice. In each semester, students will be expected to prepare individual and group presentations for the class, write reports, and otherwise participate in group discussion, seminars and conferences.

**COLLEGE OF NATURAL SCIENCES**

**ASTR3005 - Descriptive Astronomy.**

*Three credits. Two hours of lecture and two hours observation period per week.*

General introductory course. Study of Kepler's theories, the laws of gravity, the solar system and space, nebulae and galaxies and other concepts of modern cosmology. (c)

**ASTR3055 - Cosmic Evolution.**

*Three credits. Prerequisites: PERMISSION OF THE PROFESSOR OR DIRECTOR OF DEPARTMENT AND 24*

This is an integrative course of various areas of science in the context of the study of the long evolutionary process of our universe until the present time, with the purpose of understanding what the scientific knowledge tells us about our place in the universe. Topics of astronomy, physics, geology, and biology are integrated to bring this story, without losing sight of the most significant events of the history of science and its main characters. This course is addressed to science students and to students of other disciplines who appreciate and value the history of science. Emphasis is placed on the characteristics of empirical testing and mathematical and statistical nature of many phenomena, which are illustrated with examples (Kepler laws, tidal waves, black body radiation, radioactive decay, etc.)

**ASTR4006 - Physical Astronomy.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002 OR 3011-3012.*

Introduction to the application of physics to the study of stars and stellar systems. Radiation transfer; stellar spectra and classification; stellar structure and evolution; galaxies; the interstellar medium; extragalactic objects; extra-terrestrial life.

**BIOL3101 - General Biology I.**

*3 credits. Six hours of lecture, discussion, and laboratory per week.*

The study of the fundamental biological principles in the following topics: structure and function of biological molecules, the cell, inheritance, and evolution. (c)

**BIOL3102 - General Biology II.**

*3 credits. Six hours of lecture, discussion, and laboratory work per week Prerequisites: BIOL 3101.*

The study of fundamental principles of biology in the following topics: diversity in biology, ecology, anatomy and physiology of plants and animals.

**BIOL3106 - Introduction to Contemporary Biology.**

*Three credits. Five hours of lecture, discussion, and laboratory work per week.*

Introduction to the fundamental concepts in contemporary biology.

**BIOL3110 - Ecology of Puerto Rico.**

*2 credits. Three hours of lecture, discussion, or field trip per week Prerequisites: BIOL 3102 OR (BIOL 3410 AND BIOL 3420) AND PERMISSION OF THE INSTRUCTOR OR OF THE DIRECTOR OF THE ENVIRONMENTAL SCIENCE PROGRAM.*

Description of ecological life zones in Puerto Rico. Aspects of biogeography climatology, endangered species or in danger of extinction, and bio conservation in Puerto Rico.

**BIOL3111 - Introduction to Ecology.**

*3 credits. Three hours of lecture per week Prerequisites: BIOL 3102, BIOL 3410 AND BIOL 3425.*

Introduction to the basic principles of modern ecology. It covers physiological ecology, populations, community ecology, and ecosystem ecology. (c)

**BIOL3112 - Ecology Laboratory.**

*1 credit. Three hours of laboratory per week Prerequisites: BIOL 3111 OR TAKE CONCURRENTLY.*

Laboratory exercises providing instruction in basic ecological techniques and principles.

**BIOL3349 - Genetics.**

*3 credits. Three hours of lecture, discussion, and demonstration per week Prerequisites: BIOL3101-3102 AND MATE3026*

Classical genetics, the chemical nature, physical organization and function of the genetic material and an Introduction to population genetics.

**BIOL3350 - Genetics Laboratory.**

*1 credit. Three hours of laboratory work and discussion per week Prerequisites: BIOL 3349.*

Representative laboratory exercises and experiments on the genetics of procaryotic and eucaryotic organism.

**BIOL3365 - Molecular Biotechnology Laboratory.**

*1 credit. Three hours of laboratory per week Prerequisites: BIOL 3349.*

Basic recombinant DNA techniques and their use in different research projects. Emphasis will be given to techniques used in gene mapping and identification, gene expression, medical diagnosis and forensics, gene therapy, bioremediation and genetic engineering.

**BIOL3410 - Plant Organismal Biology Four.**

*BIOL3410 - Plant Organismal Biology Four. Prerequisites: BIOL 3101-3102.*



Morphology, anatomy, and physiology of plants, with emphasis on the vascular plants. (c)

**BIOL3420 - Animal Organismal Biology.**

*Three credits. Six hours of lecture, discussion, and laboratory per week Prerequisites: BIOL 3101-3102.*

Morphology, anatomy, and physiology of the main groups of animals. (c)

**BIOL3425 - Animal Organismal Biology.**

*Four credits. Six hours of lecture, discussion, and laboratory per week. Prerequisites: BIOL3101-3102.*

Morphology, anatomy, and physiology of the main groups of animals. This course was before BIOL 3420.

**BIOL3566 - Biological Psychology.**

*3 credits. Three hours of discussion and lecture per week Prerequisites: BIOL 3101, BIOL 3102 OR BIOL 3425, PSIC 3005 OR PSIC 3115 OR EQUIVALENTS.*

The biopsychology course will offer students interested in the fields of biology and psychology the opportunity to learn about the different research venues that study the relationship between the function of the nervous system and human behavior. Through several lectures and active discussion, students will discuss topics regarding structure and function of the nervous system as well as the molecular and neurobiological basis of mental processes. In addition, the neurobiological basis of neuropsychiatric and neurodegenerative disorders will be discussed. At the end of the course, students will learn a global perspective of the scientific principles that subserves the field of biopsychology.

**BIOL3576 - Neuropsychopharmacology of Drug Use and Abuse.**

*Three credits. Three hours lecture per week Prerequisites: BIOL 3101 OR EQUIVALENT, BIOL 3102 OR EQUIVALENT, PSIC 3005 OR PSIC 3115, QUIM 3001, QUIM 3002 OR EQUIVALENT.*

An interdisciplinary course in which the fields of neurobiology, psychology and medicine are integrated to provide the student with a multiple approach to the different etiologies of drug addiction. The psychopharmacological and neurophysiological basis of drug action within the nervous system and its behavioral effects are discussed in detail. A historical perspective of drug use and abuse is presented, and the most recent treatment alternatives for drug dependence are discussed. El curso biol 3076 cambio su codigo a biol 3576.

**BIOL3705 - Microbiology.**

*Four credits. Three hours of lecture and three hours of laboratory per week Prerequisites: IOL3101*

Study of the morphology, physiology, ecology, and genetics of microorganisms, with emphasis on bacteria.

An introduction to mycology, virology, parasitology, immunology, and applied microbiology. This course was before BIOL 3770

**BIOL3711 - Human Biology I.**

*3 credits. Three hours of lecture, discussion, demonstrations and supervised independent studies.*

Integrated study of structure and function of the basic tissues plus the skeletal, muscular, and nervous systems of the human body. (c)

**BIOL3712 - Human Biology II.**

*3 credits. Three hours of lecture, discussion, demonstrations and supervised independent study per week*

*Prerequisites: BIOL 3711*

Integrated study of the structure and function of the circulatory, digestive, respiratory, urinary, endocrine, and reproductive systems of the human body. (c)

**BIOL3770 - General Microbiology.**

*3 credits. Three hours of lecture and three hours of laboratory per week Prerequisites: BIOL 3101*  
Study of the morphology, physiology, ecology, and genetics of microorganisms, with emphasis on bacteria. An introduction to mycology, virology, parasitology, immunology, and applied microbiology. (c)

**BIOL3781 - Human Biology III.**

*3 credits. Six hours of lecture, discussion, and laboratory per week Prerequisites: BIOL 3425.*  
Integrated study of the structure and function of the basic tissues and skeletal, muscular, and nervous systems of the human body. Emphasis on laboratory work.

**BIOL3782 - Human Biology IV.**

*3 credits. Six hours of lecture, discussion, and laboratory per week Prerequisites: BIOL 3781*  
Integrated study of structure and function of the circulatory, digestive, respiratory, urinary, endocrine, and reproductive systems of the human body. Emphasis on laboratory work.

**BIOL4031 - Cellular and Molecular Biology I.**

*Four credits. Four hours of lecture and discussion per week Prerequisites: BIOL 3015, CHEM 3031 AND 3032, BIOL 3420 OR BIOL 3410.*  
Cellular structure and function, and introduction to the biochemistry of proteins, carbohydrates, and lipids.

**BIOL4032 - Molecular and Cellular Biology II.**

*Four credits. Four hours of lecture and discussion per week Prerequisites: BIOL 4031.*  
Structure and biochemistry of nucleic acids, molecular biology of the gene and cellular and molecular aspects of development.

**BIOL4035 - Experiments in Developmental Biology.**

*One credits. Three hours of laboratory work per week Prerequisites: BIOL 4031 AND BIOL 4032.*  
Introduction to the experimental analysis of the concepts and principles of the biology of development.

**BIOL4036 - Cellular Molecular Biology Laboratory.**

*1 credit. Three hours of laboratory per week Prerequisites: BIOL 4545 OR BIOL 4350.*  
Introduction to the modern techniques and experimental methodologies applied for the analysis of cellular and molecular bio-entities.

**BIOL4056 - Immunology.**

*Three credits. Three hours lecture per week*  
Introduction to the biology of the immune system, emphasizing the mechanisms and the cellular and molecular events involved in an immune response. Emphasis will be given to topics in cellular and molecular immunology, immunogenetics, structure and function of the acquired immune system's receptors, immunological disorders, and the immunological techniques that are used in diagnostics, treatments, and biomedical research. 08-11-04

**BIOL4057 - Invasive Species Biology and Management.**

*Three credits. Three hours of conference per week Prerequisites: BIOL 3101 AND BIOL 3102 OR 3425 OR 3410.*  
This course is designed to delve into the fundamental concepts pertaining to 1) the dispersal, establishment, spread of species in alien habitats; 2) the causes and predictability of invasions; 3) the evolutionary, ecological, social, and economic consequences of biological invasions; and 4) the development and assessment of management strategies for their control. Students will learn to assess the costs and benefits of invasions and to exploit internet resources for data mining. the score of the course will be global, but emphasis will be placed on island systems, particularly Caribbean.

**BIOL4115 - Experimental Ecology.**

*Three credits. Six hours of lecture, discussion, and laboratory work per week Prerequisites: BIOL 3017.*

Study of physical ecology, population dynamics, evolutionary aspects of ecology and experimental design and instrumentation.

**BIOL4126 - Vertebrate Ecology.**

*Three credits. Six hours of lecture, discussion, laboratory, and excursions per week Prerequisites: BIOL 3101-3102.*

Study of the environmental factors influencing the activity, distribution, and behavior of vertebrates with emphasis on Puerto Rican species.

**BIOL4201 - Health, Environment and Society: Bio-social Integration.**

*Three credits. Two hours of lectures and one hour of discussion per week Prerequisites: STUDENT FROM THIRD YEAR ONWARDS OR PERMISSION OF THE TEACHER.*

The course studies the scientific biological and ecological dimensions of various issues of social importance and explores how these biological dimensions are not often independent of social, economics, and political dimensions but are intertwined with these dimensions, studying the theory behind this idea and four examples of key society problems in which biology and ecology are used to find solutions. This will empower students to find complete solutions to these problems, be better professionals, and be empowered citizens with a critical scientific education. This will be achieved through readings, presentations, video conferences, instructional modules and discussions in class, and forums. The course is aimed at students of the interdisciplinary and biology programs and other natural science students from third year onwards. This course will be offered face-to-face, hybrid and online modalities.

**BIOL4328 - Applied Microbiology.**

*3 credits. Three hours of lecture and three hours of laboratory per week Prerequisites: BIOL 3705.*

Study of microorganisms in the environment, food industry, pharmaceuticals and hospitals and research. Emphasis will be given to the development of laboratory skills needed in industry, environmental sciences, hospitals, and research.

**BIOL4330 - Industrial Microbiology.**

*4 credits. Three hours of lecture and three hours of laboratory per week Prerequisites: BIOL 3705.*

Conferences, discussion and laboratory practices on microbial processes, sample analysis and regulatory aspects of industry and the environment. The target population for this course is upper-level undergraduate students to give them an opportunity to learn the concepts, terminology, and processes, used in a field of increasing importance. Emphasis will be given to the analysis of bioprocesses, biotechnology, operations, and monitoring techniques that involve microorganisms and/or their control within the specific regulations that might apply. Whenever possible the applications of industrial microbiology in Puerto Rico will be used in examples.

**BIOL4345 - Evolution.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: BIOL 3015.*

The process and patterns of organic evolution, speciation, phylogeny of selected groups and the evolutionary history of the biota of different geographic regions.

**BIOL4350 - Cell Biology.**

*3 credits. Three hours of lecture and discussion per week Prerequisites: BIOL 3101, BIOL 3102 AND BIOL 3349.*

The study of the cell as a biological unit. the course is a graduation requirement for biology majors. It develops the concepts related to cell structure, function, and regulation from the molecular level to tissues. the anatomy and physiology of eukaryotic cell is emphasized. New prerequisites: biol 3102. Effective June 2014.

**BIOL4360 - Introduction to Molecular Bioinformatics.**

*3 credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR. AVAILABILITY OF COMPUTERS WITH INTERNET ACCESS.*

Introduction to the applications of molecular bioinformatics. This course is design for undergraduate students that are interested in becoming familiar with the tools and principles of bioinformatics for the analysis of biological data and their application to research. It will emphasize applications for molecular and cellular biology and biomedical sciences. The course will use computer programs, tools, and databases available on the internet to analyze nucleic acid and protein sequences, and its application to biological problems. It will also include the mathematical and statistical concepts relevant to the study of genomics and proteomics.

**BIOL4415 - Invertebrates.**

*Three credits. Six hours of lecture, discussion, and laboratory work per week Prerequisites: BIOL 3101-3102.* General study of the morphology, embryology, ecology, and classification of the invertebrates.

**BIOL4426 - Parasitology.**

*3 credits. Six hours of lecture, discussion, and laboratory work per week Prerequisites: BIOL 3102 OR 3420.* The biology of protozoa and belminths representative of vertebrate parasites including man and their host-parasite relationships.

**BIOL4440 - Vertebrate Biology.**

*3 credits. Six hours of lecture, discussion, and laboratory per week Prerequisites: BIOL 3420 OR 3102* Origin and adaptive radiation of the vertebrate with emphasis on the: invasion of principal adaptive zones, evolution of terrestrial adaptations, evolution of endothermal; evolution of flight, modifications for aquatic life, reproductive strategies.

**BIOL4455 - Herpetology.**

*3 credits. Six hours of lecture, discussion, and laboratory work per week Prerequisites: BIOL 3425.* Systematic, evolution and biology of amphibians and reptiles on a world- wide basis with emphasis on Puerto Rican and other Antillean species.

**BIOL4460 - Endocrinology.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: BIOL 4350.*

An introduction to the endocrine system with emphasis on vertebrates, especially mammals, and its relation to the nervous system, hormone regulation, mechanism of action and hormonal effects at the cellular and systemic levels.

**BIOL4466 - Plant Morphology.**

*3 credits. Six hours of lecture, discussion of laboratory per week Prerequisites: BIOL 3410 OR 3102.* Comparative morphology of representative plants. Special attention to functional aspects, patterns, and process of evolution.

**BIOL4475 - Immunobiology.**

*Three credits. Two hours of discussion and four hours of laboratory work per week Prerequisites: BIOL 4031, BIOL 3770.*

An introduction to the major concepts of vertebrate immunology. Lecture topics will include the cells and tissues involved in the immunological defense of vertebrates. the molecular, sub-cellular and cellular mechanisms which constitute the immune response are discussed. the laboratory exercises provide practical experience in these areas. 19-08-96

#### **BIOL4477 - Anatomy of Plants.**

*Three credits. Six hours of lecture, discussion, and laboratory work per week Prerequisites: BIOL 3410 O BIOL3102*

The ontogeny and phylogeny, structure and identification of the tissues and organs of vascular plants in relation to their function and evolution.

#### **BIOL4486 - Ethnobotany Three Credits. Three Hours of Lecture Per Week. Prerequisites: Biol 3101-3102 Ó Biol 3410, Quim 3001 Y Quim.**

*3002. credits.*

Fundamentals of ethnobotany from a historical and economic perspective. the origin of plant's domestication and the most important roles plants play and have played in human life. Emphasis will be given to plants of economic importance, including those that. Provide food material, and medicine. the study of the effect of secondary metabolites on plants and other organisms. This includes poisonous plants as well as plants of biomedical value and social drugs.

#### **BIOL4545 - Cellular Biochemistry.**

*3 credits. Three hours of lecture per week Prerequisites: BIOL 3101, BIOL 3349 AND QUIM 3031.*

The study of macromolecules, enzyme kinetics, cellular metabolic pathways, and their control mechanisms. (c)

#### **BIOL4805 - Introduction to Animal Behavior.**

*Three credits. Six hours of lecture, discussion, and laboratory work per week Prerequisites: BIOL 3101-3102.*

A comparative study of the behavior of terrestrial, freshwater, and marine animals from protozoa to man. Topics include instinct, learning, orientation and navigation, social behavior and organization, and the evolution of behavior.

#### **BIOL4806 - Evolutionary Medicine.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: BIOL 3101 AND BIOL 3102 OR EQUIVALENT, BIOL 3111 OR BIOL 3319 OR CONSENT OF THE PROFESSOR. IT IS RECOMMENDED BIOL 4345.*

Lecture and discussion focused on the study of diseases and other health problems in humans from evolutionary, ecological and behavioral perspectives. Directed to advanced students in the college of natural sciences or other colleges interested in learning about novel and little-known aspects of diseases that have repercussions for their treatment. Critical thinking, discussion and synthesis of primary information will be emphasized.

#### **BIOL4980 - Tutoring in Biology.**

*One credits. May be repeated up to a maximum of 3 times.*

Training in teaching biology laboratories.

#### **BIOL4990 - Introduction to Research.**

*One to 3 credits. May be taken repeatedly up to a maximum of six times.*

From five to fifteen hours of supervised work in research project laboratory or field. (c)

**BIOL4999 - Biology Subjects.**

*One to 3 credits. One to three hours of lecture and/or discussion and/or laboratory work per week Prerequisites: VARIOUS TOPICS IN A PARTICULAR (SECTION).*

Presentation and discussion of various topics in a particular biology area such as physiology, oncology, or malacology.

**BIOL5025 - Animal Physiological Ecology.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: BIOL 3017 OR ITS EQUIVALENT AND PHYS 3001-3002 OR ITS EQUIVALENT.*

Study of the ways animals modify their physiology and behavior in response to their environment.

**BIOL5026 - Functional Histology and Methods.**

*Four credits. Three hours of lecture and three hours laboratory per week Prerequisites: BIOL 3420 - BIOL 4031 INSTRUCTOR AUTHORIZATION.*

Study of the fundamentals of light microscopy and electronic imaging; interpretation of microscopic slides and images; morphology and morphogenesis of cells, tissues, and organs of vertebrate. The laboratory will develop skills in preparation of tissues for microscopy and visualization techniques and methods for the localization of single and/or multiples molecules inside cells tissues.

**BIOL5027 - Plant Physiology.**

*Three credits. Six hours of lecture, discussion, and laboratory work per week Prerequisites: BIOL 3101-3102, PERMISSION OF THE DIRECTOR AND FOR BACHELOR OR MASTER STUDENTS.*

Study of the fundamental physiological processes of plants, with emphasis on seed plants.

**BIOL5029 - Tropical Forest Resources.**

*Four credits. Three hours of lecture and four hour of laboratory work per week Prerequisites: BIOL 3017, BIOL 3410. RECOMMENDED BIOL 5027.*

Introduction to conservation and management of tropical resources.

**BIOL5037 - Natural History of Puerto Rico.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: BIOL 3101 AND BIOL 3102 OR PERMISSION OF THE INSTRUCTOR.*

Study of the natural history of Puerto Rico, emphasizing fauna and flora including aspects of the geology archaeology and climatology of the island. New

**BIOL5398 - Molecular Genetics.**

*Three credits. Prerequisites: BIOL3349, BIOL4350 OR PERMISSION OF THE DIRECTOR*

Advanced course that involves the detailed study of molecular basis of gene expression. It includes the study of genetic control of development, molecular mechanisms of genetic regulation and molecular evolution. Textbooks and primary literature are used for the analysis and discussion of the topics. The course is directed to undergraduate and graduate students in biology interested in the area of cellular and molecular biology.

**BIOL5495 - Flowering Plant Taxonomy.**

*Three credits. Six hours of lecture, laboratory, and excursion per week Prerequisites: BIOL 3410.*

Classification of representative forms of flowering plants, with emphasis on Puerto Rican species. Practice in taxonomic techniques.

**BIOL5535 - Contemporary Parasitology (for Biology Majors).**

*Three credits. Two hours of lecture and four of laboratory work per week.*

The course will cover the basic biology, evolution, and physiology of each group of parasites. The interaction of each group with the immune system group of the vertebrate and invertebrate hosts will be studied. There is emphasis on the experimental approach and discovery in the lectures and laboratories.

### **BIOL5538 - Aquatic Entomology.**

*Four credits. Three hours of lecture and three hours of laboratory per week Prerequisites: BIOL 3420 (ZOOLOGY), BIOL 3111 (ECOLOGY) OR ITS EQUIVALENT OR CONSENT OF THE PROFESSOR. GRADUATED STUDENTS REQUIRES PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Study of the ecology and taxonomy of those insects that inhabit freshwater bodies, such as rivers, lakes, and reservoirs. It emphasizes the study of the immature stages (larvae and nymphs) of aquatic insects with emphasis in the tropical region but covers all the relevant aspects to their study in any other region. The course includes laboratory sessions.

### **BIOL5540 - Limnology Four.**

*BIOL5540 - Limnology Four. Prerequisites: BIOL 3420 (ZOOLOGY) BIOL 3410 (BOTANIC), BIOL 3111 (ECOLOGY) OR EQUIVALENT QUIM 3002 CONSENT WITH PROFESSOR. STUDENT GRADUATE TO REQUEST AUTHORIZATION WITH DIRECTOR OF DEPARTMENT.*

Introduction to the fundamental principles in limnology, including physical, chemical, and biological characteristics of rivers, lakes, and reservoirs. The course emphasizes tropical limnology but covers all the relevant aspects to its study in any other region. Includes laboratory sessions and field trips. 08-11-04

### **BIOL5548 - Neurobiology.**

*3 credits. Three hours of lecture per week Prerequisites: BIOL 4545 OR BIOL 4350 OR PERMISSION OF THE INSTRUCTOR.*

The study of the nervous system with emphasis on its development, physiology, biochemistry, and anatomy.

### **BIOL5565 - Biology of Fungi.**

*Three credits. Three hours of lecture and three of laboratory per week Prerequisites: BIOL 3410 OR BIOL 3770.*

Morphology, physiology, genetics, and reproduction of the major fungi. Emphasis on the roles of fungi in nature and in human affairs, including plant and animal diseases and biotechnology.

### **BIOL5580 - Entomology.**

*Three credits. Three hours of lecture and three hours of laboratory or field trip each week Prerequisites: BIOL 3420 AND PERMISSION OF THE INSTRUCTOR.*

Broad overview of insect biology including anatomy, physiology, and development as well as ecology, behavior, and evolution. Emphasis is also placed on development of practical skills for collection, preparation, and identification of specimens for study.

### **BIOL5600 - Marine Biology.**

*Three credits. Two hours of conference, one hour of discussion, three hours of laboratory per week and Prerequisites: BIOL 3111 AND PERMISSION OF THE DIRECTOR OR INSTRUCTOR.*

This course explores the diversity of marine habitats and of the organism that inhabit them. Lectures, laboratories, and discussion address the physical and biological factors that influence the distribution and ecology of organism in the various marine environments. Caribbean ecosystems are emphasized.

### **BIOL5900 - Proteomics in Biological Sciences.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: BIOL4345 OR BIOL4350. GRADUATE STUDENTS REQUIRE PERMISSION OF THE DIRECTOR.*

The course is based on conferences and discussion about principles, function, and characterization of proteins. The course is directed to biology major students to develop an in depth understanding of expression, structure, localization, modification, interaction, and function of proteins purified from different organisms. In addition, the course provides an understanding of the role that proteomics plays in the study of biological systems and pathological processes.

### **CCOM3020 - Discrete Mathematics.**

*3 credits. Three hours of lecture per week*

This course is designed for students who attend their first or second year in the computer science program. Students will learn techniques to produce elementary mathematical proofs. The course will introduce students to topics related to sets and processes that can be enumerated or associated with subsets of the natural numbers. The topics will be discussed emphasizing applications of discrete mathematics to different areas of computer science.

### **CCOM3030 - Introduction to Computer Science.**

*3 credits. Three hours of lecture per week.*

This course provides a panoramic view of computer science through various areas of specialization (e. G. Data bases, operating systems, networks, artificial intelligence, bioinformatics). It presents foundations from which one can appreciate the relevance and the interrelation among different subjects of computer science. The course also provides an introduction to skills related to problem solving and general concepts of concurrent programming. Since January 2015 it is required to obtain a grade of a or b in CCOM 3030 to take the course CCOM 3033.

### **CCOM3031 - Introduction to Data Science.**

*3 credits. Three hours of supervised practice Prerequisites: CCOM 3030 OR MATE 3026 OR ESTA 3050 OR SICI 3255 OR TEACHER'S PERMISSION.*

The course will expose students to handle statistical and computational aspects with mastery of a discipline to solve complex problems by extracting knowledge from large data repositories. Topics such as cleaning and manipulating data, using relevant data science libraries to analyze and visualize data are covered to draw conclusions. Students will develop statistical thinking skills and become familiar with collaborative and interdisciplinary tools necessary for projects that can undertake summer internships and future research experiences. This course will be offered in face-to-face, hybrid and online modalities.

### **CCOM3033 - Introduction to Computer Programming.**

*3 credits. Three hours of lecture and two of laboratory work per week Prerequisites: CCOM3030 MATE3023*

The course provides an introduction to the basics computer programming and to problem solving using algorithms, including parallel, programming techniques students will master the basic parts of a computer program, starting with control structures using conditional and iterative instructions with logical expressions, as well as definition and use of variables and data types. They will develop procedures and functions for common tasks that repeat or more complex which require decomposition, including recursive functions. They will use data structures such as arrays, strings, files, and pointers. Also, the students will be exposed to the computer structure: input and output, memory, and central processing unit. The course also includes an overview to the computer science field and its effects on society, including ethical principles in computing. Since January 2015, it is required to obtain a grade of A or B in CCOM 3033 to take the course ccom3034.

### **CCOM3034 - Data and Programming Structures.**

*3 credits. Three hours of lecture and two hours of laboratory per week Prerequisites: CCOM 3034, CCOM 4086.*

Introduction to pointer variables and dynamic storage. Abstract data types. Fundamental data structures



such as queues, stacks, lists and trees, their efficient implementation, and applications. More advanced data structure such as hash tables, binary search trees, 2-3 trees, b-trees, heaps, and graphs. Access techniques to secondary storage structures. Basic sorting and searching methods. Introduction to the asymptotic analysis of algorithms. Prerequisites were modified and added effective January 2014. (CCOM 3034, CCOM 4086).

### **CCOM3981 - Undergraduate Seminar in Computer Science I.**

*1 credit. One and a half hour of seminar per week.*

This course is designed for students who attend their first semester in the computer science program. The course will allow students to become familiar with topics related to computer science and to undergraduate research. They will also learn the skills necessary to work in research and about principles of academic integrity. This is the first step to create an atmosphere where the students get interested and participate in research activities. At the end of the course the students should have selected a topic to research on. New description since January 2012

### **CCOM3982 - Undergraduate Seminar in Computer Science II.**

*2 credits. One hour and a half of seminar and half hour of independent study per week Prerequisites: CCOM3981*

This course is designed for students who attend their second semester in the computer science program. The course will allow students to become familiar with topics related to computer science and to undergraduate research and to put into practice the skills learned in the course CCOM 3981. Students will select a topic, revise the pertinent literature to prepare an oral and a poster presentation about the selected topic. the presentations could be group presentations. the students could also choose an undergraduate research topic to be conducted under the direction of a computer science faculty member and present the research problem and the background material. in addition, the students will learn about the job and graduate school opportunities in computer science.

### **CCOM3986 - Undergraduate Research in Computer Science.**

*Three credits. Three hours of discussion and 10 of research per week Prerequisites: AUTHORIZATION OF THE PROFESSOR*

This course will give the students of the computer science program a research experience in a topic related to computer science. Each student will work independently on a research project under the supervision of a researcher. There will be weekly meetings to discuss the progress made and approaches to advance the completion of the project. At the end of the semester each student will submit a technical report. In addition, will give an oral presentation or will prepare a poster of the research done. the course can be taken more than once with a maximum of 6 credits.

### **CCOM4017 - Operating Systems.**

*3 credits. Three hours of lecture per week Prerequisites: CCOM 3034, CCOM 4086.*

Instruction sets. Input-output and interrupt structure. Addressing schemes. Procedure implementation. Memory management. System structure and evaluation recovery procedures. Scientific applications. New descriptions began January 2014.

### **CCOM4027 - Introduction to Data Management.**

*Three credits. Three hours of lecture per week Prerequisites: CCOM 3034.*

Introduction to the basic concepts of the organization and management of files on secondary storage media. Introductory data base concepts. Techniques for the management of internal and external files: searching, sorting, updating, compressing, deleting, and merging. File organization on direct and sequential access storage devices. the student will carry out programming projects in which the concepts of the course are implemented.

**CCOM4029 - High Level Programming Languages.**

*Three credits. Three hours of lecture per week Prerequisites: CCOM3034*

In this course fundamental aspects of high-level programming languages, including data objects, operations, sequence control, data control, storage management, syntax, and semantics are presented. Also, the students are exposed to different language paradigms, e. G. Imperative, parallel, functional, rule- based (logic), and object-oriented languages. The course gives hands on experience and allows students to develop moderate-level programs in various programming languages, one for each paradigm.

**CCOM4030 - Introduction to Software Engineering.**

*3 credits. Three hours of discussion per week Prerequisites: CCOM 4029.*

This course is designed for students who attend third or fourth year in the computer science program. Provides an overview of the basic principles and concepts of software engineering. Discusses elements of the software life cycle, requirements, analysis, Implementation, verification, and validation as well as ethical issues related to software development process. In addition, through a group project the students will gain experience that enables them to position as designers and developers of software.

**CCOM4065 - Numerical Linear Algebra.**

*Three credits. Three hours of conference per week Prerequisites: MATE 3151 AND CCOM 3033.*

This course will study numerical methods to solve problems of matrix algebra. We will study the algorithms and they will be implemented on the computer using a platform for high-level programming. Test problems will be used to illustrate the strengths and weaknesses of the methods. Topics to be discussed include properties of matrices, floating point representation of real numbers, methods for solving linear systems (direct and iterative), the least-squares problem, and methods for computing the eigenvalues of a matrix. At the end of each topic, a real-life problem will be study for which one of the methods discussed is needed to solve the problem.

**CCOM4086 - Computer Architecture I.**

*3 credits. Three hours of lecture per week*

In this course the student is exposed to fundamental issues of the architecture of modern computers. The main objective is to provide students with the knowledge necessary to understand the functional logic of the main components of modern computers. Topics include the logical design, data representation the different types of memory and its organization, registers, the CPU and its organization, construction and operation of buses I/O devices and their inter- faces. Different levels of abstraction of the computer architecture are studied logical level, the architecture of micro-level, machine language level, assembly language and operating system level. The course also examines the main features of CISC and RISC architectures and surveys opportunities for parallelism at multiple levels within the processor.

**CCOM4087 - Compiler Design.**

*3 credits. Three hours of lecture per week Prerequisites: CCOM4017, CCOM4086, CCOM4029*

Introduction to compiling, structure of simple one-step compilers; syntax and lexical analysis, parsing, Introduction to type checking, intermediate code generation, introduction to code generation and optimization. Discussion about tools for compiler design (e. G. Lex and yacc).

**CCOM4088 - Cybersecurity.**

*Three credits. Three hours of conference per week.*

In this course the students will recognize the physical and logical architecture of the internet, and basic principles of information assurance. Through interaction with network clients and servers, they will appraise why networked systems are vulnerable to cyber-attacks. They will distinguish how the five pillars of

information assurance (availability, integrity, authentication, confidentiality, and non-repudiation) apply to networked information resources. Students will apply basic techniques of how to attack and defend internet resources. The hands-on techniques will serve to motivate students to evaluate in depth more advanced techniques, and the mathematical underpinnings of cybersecurity (discrete mathematics, cryptography). This course will be offered under face-to-face, hybrid and distance modalities. Effective August 2022.

### **CCOM4089 - System and Network Security.**

*Three credits. One hour of lecture and two of workshop Prerequisites: CCOM4088 CCOM4086 CCOM4017 CCOM4025*

Elective course designed for undergraduate students of computer science that consists of talks with interactive exercises and workshops. Students will learn secure information system and network administration techniques. They will have hands-on information system administration experiences with key internet services, will learn about important security issues related to such services, and will be exposed to tools to analyze, defend and secure information systems and networks.

### **CCOM4101 - Introduction to Computer Graphics.**

*Three credits. Three hours of lecture per week Prerequisites: CCOM 3034, MATE 3151.*

Elective course designed for undergraduate students in computer science, organized as lectures with programming and interactive exercises. This course provides an introduction to computer graphics from the point of the programmer. The topics addressed will cover both fundamentals of the field and implementation on modern hardware and software platforms: fundamentals of image representation, processing, storage and display; graphics modeling and rendering in two and three dimensions; animated and interactive graphics. Course offered as face-to face, hybrid and online modalities.

### **CCOM4205 - Computer Networks.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: CCOM4017*

This course is designed for third or, fourth year students in the computer science program. It offers a complete overview of computer communication networks. Fundamental elements of a network are discussed, including protocols and design elements and characteristics. Special emphasis is given to the protocols used in the internet routing mechanism and protocols. It also presents some of the more popular applications for the internet and its protocols.

### **CCOM4301 - Transdisciplinary Research with Applied Data Science.**

*Three credits. One hour and a half of workshop and one hour and a half of supervised practice Prerequisites: CCOM 301, CCOM 4365 AND MATE-STATISTIC FOR RESEARCH IN SCIENCE. SOME UNDERGRADUATE RESEARCH COURSE IN YOUR DISCIPLINE, FOR EXAMPLE THE CCOM 3986 COURSE.*

In this course, students will develop a transdisciplinary project based on the application of data science to various domains. The course will allow you to carry out projects where you solve complex problems that require interdisciplinary and intersectoral collaboration with transcendence to the disciplines involved to have a great impact on some other related field. This through the process to develop the project by establishing a problem, literature review, data collection, manipulation, visualization, and analysis. The process ends with the development of writing techniques and presentation of a scientific paper. This course will be offered under face-to-face, hybrid and online modalities.

### **CCOM4365 - Foundations of Ethics in Computing.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: CCOM 3031, CCOM 3033 OR AUTHORIZATION OF PROFESSOR.*

The purpose of this course is to present computer science students with discussion and analysis of situations of ethical conflict that they will face in their professional life. Emphasis will be placed on topics related to the

fields of data privacy, intellectual property, cybersecurity, bias in machine learning algorithms, bias in data collection and manipulation, bioinformatics, diversity in the field, among others, in addition, the role that computing professionals play as instruments of change and social justice will be discussed. The student will have the opportunity to reflect on the social and humanitarian aspects of technology, to aid in the development of skills for making decisions. This course will be offered in face-to-face, hybrid and online modalities.

### **CCOM4702 - Software Reverse Engineering.**

*Three credits. One hour of lecture and two of workshop per week Prerequisites: CCOM4086*

Elective course designed for undergraduate students of computer science that consists of lectures with interactive exercises and workshops. Students will learn various techniques to derive performance and coding practices of a program, based on the executable, and make adjustments such as dodge licensing mechanisms and make changes to or use functionality (with the laws protecting the intellectual property of the software). They will analyze malware and learn recognized reverse engineering prevention techniques and strategies to counter them.

### **CCOM4996 - Independent Study in Computer Science.**

*One to Three credits. One hour of discussion and 3 to 10 of independent study Prerequisites: PERMISSION OF THE PROFESSOR*

This course gives the students the opportunity to conduct an independent study and to learn about topics related to computer science guided by a professor. The topics will be selected according to the interest of the student and the professor. At the end, the student will write an essay or technical report about the topic studied. The course can be taken more than once if the topic is different, with a maximum of three credits.

### **CCOM4997 - Software Application Development.**

*One to Three credits. One to three hours of independent studies Prerequisites: AUTHORIZATION OF PROFESSOR.*

This course will give undergraduate students the opportunity to complete the software for an application. Each one will work independently in a project under the supervision of professor. There will be weekly meetings to discuss the progress made and approaches to complete the project. At the end of the semester each student will turn in the software of the application with a description and usage manual. The course might be repeated, up to a maximum of 6 credits, to complete different software.

### **CCOM5001 - Image Analysis and Computer Vision.**

*Three credits. Three hours of lecture per week Prerequisites: CCOM 3034, CCOM 4065, MATE 4031 OR EQUIVALENT NUMERICAL LINEAR ALGEBRA.*

Elective course designed for senior undergraduate students in computer science, organized as lectures with programming assignments. Computer vision is about the algorithms and models that enable machines to extract information automatically from images and videos. This course provides an introduction to computer vision through the study of three main aspects of the domain: image processing at the pixel level, machine learning of visual models, estimation of geometrical models. Each topic will be associated with programming activities with applications such as image segmentation, image alignment, and object recognition. Course offered as face-to-face, hybrid and online modalities. New description since January 2021.

### **CCOM5002 - Machine Learning.**

*Three credits. Three hours of lecture per week Prerequisites: CCOM 3034, MATE 4031 OR EQUIVALENT MATE 3026, OR MATE 5051.*

Elective course designed for senior undergraduate students in computer science, organized as lectures with programming assignments. Machine learning is the field of study that gives computer the ability to perform

tasks without being explicitly programmed. the goal of this course is to provide an introduction to machine learning, from both a theoretical and practical point of view. The main approaches in supervised and unsupervised machine learning will be discussed. Particular focus will be given to the linear model for the theoretical insights it provides, and the deep neural network models, which have become recently the best performing approach for many complex learning tasks. the mathematical foundations of selected approaches will be discussed, as well as the practical implementation of an end-to-end learning system. Course offered as face-to-face, online and hybrid modalities.

### **CCOM5026 - Computer Architecture II.**

*Three credits. Three hours of lecture per week Prerequisites: CCOM 4086.*

Organization and design of digital systems. Machine level representation of data. Memory system organization and architecture. Input/ output control. Alternative architecture.

### **CCOM5035 - Computability Theory.**

*3 credits. Three hours of lecture per week Prerequisites: CCOM3034 MATE4032*

In this course fundamental concepts, ideas, and models of the theory of computation are discussed. Topics included: introduction to automata and languages, introduction to compatibility theory, introduction to complexity theory.

### **CCOM5045 - Computational Cell Biology.**

*Three credits. Three hours of conference per week Prerequisites: MATE 3151, CCOM 3033 AND AUTHORIZATION OF PROFESSOR.*

Course on mathematical modeling of different cell transport activities. It will use examples of transport processes in the cell membrane to motivate concepts and techniques used in computational cell biology. Progressively, it will increase the complexity of the cellular functions modeled with mathematical and computational techniques that will also increase in complexity. The course will focus on the simulation of functions that describe certain physiological behavior in the cell.

### **CCOM5050 - Design and Analysis of Algorithms.**

*3 credits. Three hours of lecture per week Prerequisites: MATE3152, CCOM3034*

In this course general and advanced techniques for the design and analysis of algorithms are discussed. Topics included: mathematical induction, asymptotic notation, worst-case analysis, recurrence relations and their closed form solutions, sorting and search algorithms, randomized algorithms, parallel algorithms, proof of correctness, advanced design techniques, advanced data structures, graph algorithms, np-completeness.

### **CCOM5060 - Parallel and Distributed Proceeding.**

*Three credits. Three hours of lecture per week Prerequisites: CCOM 5050 OR PROFESSOR PERMISSION OR DEPARTMENT'S DIRECTOR AUTHORIZATION.*

This course is designed for students who attend their fourth year in the computer science program. It offers a broad vision of parallel systems by covering the following topics. Fundamental concepts of parallel computing and parallel architectures, distributed-memory (message-passing) and shared-memory programming, parallel algorithm design, implementation, benchmarking, and performance analysis: performance metrics, scalability and running times. This course discusses standard tools used in high performance application, message- passing, shared-memory programming, and hybrid paradigms of these, as well as high level tools such as functional languages. This course also presents ethical issues related to the use of parallel computation.

### **CCOM5677 - Artificial Intelligence.**

*Three credits. Three hours of lecture per week Prerequisites: CCOM 3029.*

Fundamental concepts of logic. Artificial intelligence techniques. Natural languages and vision systems. Automatic theorem proving. Expert systems.

#### **CIAM4005 - Marine Biomass Production and Characterization.**

*Three credits. One hour and a half of lecture and one hour and a half of laboratory per week Prerequisites: BIOL3101 BIOL3102 OR PERMISSION OF THE PROFESSOR*

This course is designed to provide participants with an overview of marine biomass cultivation and characterization. Topics will be interdisciplinary and will include marine biomass diversity, collection from various habitats and preservation. All these techniques will be investigated through field forays and laboratory studies. Cultivation essential for biodiversity sampling and analysis will also be emphasized. This course will use real-world examples while providing insights into technological trends aiming at securing our energy future. The course will feature speakers and lectures focusing on energy.

#### **CIAM4057 - Invasive Species Biology and Management.**

*Three credits. Three hours of lecture per week Prerequisites: BIOL 3101 OR AT LEAST ONE OF THE FOLLOWING COURSES, BIOL3102, BIOL 3425, BIOL 3410.*

This course is designed to deepen into the fundamental concepts pertaining to 1) the dispersal, establishment, spread of species in alien habitats; 2) the causes and predictability of invasions; 3) the evolutionary, ecological, social and economic consequences of biological invasions; and 4) the development and assessment of management strategies for their control. Students will learn to assess the cost and benefits of invasions and to exploit internet resources for data mining. The scope of the course will be global, but emphasis will be placed on island systems, particularly Caribbean.

#### **CIAM4127 - Sampling and Analysis Techniques in Environmental Science.**

*Three credits. Three hours of lecture and three of laboratory per week Prerequisites: CINA4157 AND QUIM3001-3002.*

The study of basic techniques for the analysis of water, air and soil quality using a hands-on approach. Students will evaluate the physical, chemical and microbiological properties of water samples in water bodies of Puerto Rico using techniques learned in the course. The students will participate in environmental monitoring by local agencies such as the usgs and epa to monitor water, oil or air quality as part of their educational experience. Face-to-face, online and hybrid course. Effective January 2021. This course substitutes cina4127

#### **CIAM4137 - Environmental Sustainability.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: STUDENTS MUST HAVE COMPLETED 60*

This course will empower students to find solutions to environmental sustainability, integrating knowledge and application of science and technology with social, economic, and political dimensions. This will be achieved through readings, presentations, video conferences, instructional modules and discussions in class and forums. The course is directed at students of the minor in renewable energy and sustainability and all interested student on campus. This course will be offered face-to-face, hybrid and online modalities.

#### **CIAM4300 - Fundamentals of Environmental Health.**

*Three credits. Three hours of lecture per week Prerequisites: BIOL3101-3102, QUIM3001 AND CINA 3005*

Studies of the interaction between the environment and human health. The theoretical basis to analyze this interaction and its effect on human health are presented. Environmental health problems arising from inadequate management of water, soil and air resources are analyzed. The environmental health problems that might be caused by energy production, plague control, food handling and production, hazardous and non-hazardous solid waste management and natural disasters are also studied. Emphasis will be made in the

application of scientific and social knowledge in the control of factors that affect environmental health, and on those factors that promote said health, considering aspects of public policy, environmental ethics, and environmental justice in a sustainable development context.

**CIAM4990 - Introduction to Research in Environmental Science.**

*One to Three credits. Five to fifteen hours of research hours per week.*

Students will learn to carry out research projects in the lab or field with an investigator of the faculty of natural sciences or others who carry out the research in the area of environmental science and whose laboratories have been evaluated to form part of the course. They will practice theoretical knowledge acquired in academic courses to design an experiment to solve an environmental problem with their researcher mentor. Students will participate in drafting written reports of the results and will discuss the final results with the research group in an oral presentation. (up to six credits)

**CIAM5005 - Biomonitoring of Aquatic Ecosystems.**

*Six credits. Three hours of conference and three hours of laboratory per week Prerequisites: AUTHORIZATION FOR THE PROFESSOR.*

The goal is to study the importance of ecosystem monitoring using aquatic organisms (e. G. , algae, macroinvertebrates, fish). the main focus is assessing how stream ecosystems change in time and spatially due to the environment and to disturbance (natural and anthropogenic) and how we can assess those changes using the composition of the aquatic community. We will make emphasis on the use of macroinvertebrates as key elements in aquatic biomonitoring.

**CIAM5231 - Remote Sensing I.**

*Three credits. Two hours of lecture and one hour of research per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OF ENVIRONMENTAL SCIENCES OR PERMISSION OF THE PROFESSOR.*

Theoretical and practical study of methods of analysis of land cover and land use based on satellite images. the physical laws essential for studying tele detection, image capturing systems, image correction and classification and interpretation of results are examined. A project is developed in which the student carries out an analysis to classify land cover and use, using satellite images of islands and tropical regions. This is a required course for all students of the graduate program in environmental sciences.

**CINA3001 - Seminar: Environmental Management.**

*No credits. One two-hour period every two weeks Prerequisites: CONSENT OF THE DIRECTOR OF THE DEPARTMENT.*

Analysis and discussion of environmental problems and their possible solutions as viewed from the different related fields of endeavor. the importance of an interdisciplinary approach in matters concerned with the regulation and use of natural resources and environmental quality will be emphasized.

**CINA3002 - Seminar: Environmental Management.**

*No credits. One two-hour period every two weeks Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Analysis and discussion of environmental problems and their possible solutions as viewed from the different related fields of endeavor. the importance of an interdisciplinary approach in matters concerned with the regulation and use of natural resources and environmental quality will be emphasized.

**CINA3003 - Seminar: Environmental Management.**

*No credits. One two-hour period every two weeks Prerequisites: PERMISSION OF THE DIRECTOR.*

Analysis and discussion of environmental problems and their possible solutions as viewed from the different related fields of endeavor. the importance of an interdisciplinary approach in matters concerned with the

regulation and use of natural resources and environmental quality will be emphasized.

**CINA3004 - Seminar: Environmental Management.**

*No credits. One two-hour period of lecture every two weeks Prerequisites: CONSENT OF THE DIRECTOR OF THE DEPARTMENT.*

Analysis and discussion of environmental problems and their possible solutions as viewed from the different related fields of endeavor. the importance of an interdisciplinary approach in matters concerned with the regulation and use of natural resources and environmental quality will be emphasized.

**CINA3011 - Integrated Sciences for Special Education Students.**

*Three credits. Three hours of lecture and one hour of demonstration per week Prerequisites: BISC 3001-3002 PHSC 3001-3002, MATH 3001. FOR STUDENTS OF SPECIAL EDUCATION PROGRAM IN THE COLLEGE OF EDUCATION.*

A discussion of concepts in biology, chemistry, and physics relevant to the patterns of behavior and learning with emphasis on the exceptional students.

**CINA3012 - Integrated Sciences for Special Education Students.**

*Three credits. Three hours of lecture and one hour of demonstration per week Prerequisites: BISC 3001-3002, PHSC 3001-3002, MATH 3001. FOR STUDENTS OF SPECIAL EDUCATION PROGRAM IN THE COLLEGE OF EDUCATION.*

A discussion of concepts in biology, chemistry, and physics relevant to the patterns of behavior and learning with emphasis on the exceptional students.

**CINA3126 - Population, Resources and Environment.**

*Two credits. Three hours of discussion and lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.* General demographic theories, especially those dealing with population growth. Population distribution, density, age and sex distribution, and ethnic composition. Emphasis on fecundity, mortality and migration and the influence of these facts in population changes. Discussion of the interdependence between populations, environmental resources, technology, and patterns of organization and hypothesis of population stabilizing mechanisms. (c)

**CINA3127 - Economy of the Natural Resources of Puerto Rico.**

*Two credits. Two hours of discussion or lecture per week Prerequisites: ECON 3005 OR PERMISSION OF THE DIRECTOR.*

Application of economic principles to problems of development, management, and policy formation as it affects natural resources. Natural resources of Puerto Rico soils, fauna, flora and water bodies and the economic and social contribution of these to the country.

**CINA3128 - Planning and Regulation of Natural Resources.**

*Two credits. Two hours of lecture or discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The effect of social, economic, and political factors on the formulation of environmental policies. General concepts and principles regarding policy, planning, administration, and management of natural resources. Laws in relation to the environment and its natural resources; environmental agencies and programs. Concepts and activities that contribute the optimal use of natural resources. the role that may be played by the private citizens and citizens organizations in the use of existent legal procedures.

**CINA4005 - Special Topics in Mathematics for Scientists.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3061-3062.*

Study of differential equations, linear algebra, matrices and determinants, vector differential calculus, line



and surface integrals. Examples will be selected from all the areas of science.

**CINA4071 - Seminar: Environmental Science I.**

*1 credit. One hour and a half of discussion or lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Active participation of students in the discussion and formulation of possible solutions to environmental problems. Students will report on their independent research projects.

**CINA4072 - Seminar: Environmental Science II.**

*1 credit. One hour and a half of discussion and lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Active participation of students in the discussion and formulation of possible solutions to environmental problems. Students will report on their independent research projects.

**CINA4085 - Computational Numerical Analysis.**

*Three credits. Two hours of lecture and one-three hours of laboratory work per week Prerequisites: PHYS 3002, CHEM 3002 AND PERMISSION OF THE DIRECTOR.*

An interdisciplinary course in programming and basic computer concepts for scientific applications with emphasis on numerical techniques.

**CINA4115 - Modern Physics and Laboratory.**

*Four credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002 OR PHYS 3011-3012.*

Study of the principles of restricted relativity classic thermodynamics, kinetic theory of gases, rudiments of statistical mechanics and physics of the plasma. Study of the classic experiments that led to the formulation of an atomic and nuclear theory like the experiments of compton, rutherford, thompson bohr theory and de brolie work.

**CINA4147 - Geophysics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002, CHEM 3002 OR TAKEN CONCURRENTLY.*

General characteristics of planet earth, its structure and isostasy. the solid earth, rock and minerals, tectonic motion oceanic crust island arcs, continents. the oceans: composition, structure, currents, waves, and tides. the atmosphere composition, vertical structure, energy balance, precipitation, winds, circulation patterns, climates. Interaction between solid and fluid earth. Weathering and transport of rocks, sediments, soil formation.

**CINA4157 - Land and Water Resources of Puerto Rico, Management and Maintenance.**

*Three credits. Four hours of lecture, discussion, laboratory of field trips per week Prerequisites: BIOL 3017, CHEM 3002, NASC 4147.*

Treatment of soils as components of natural ecosystems. Soil types, their physical and chemical properties, and their relationship to the functioning of ecosystems. Solid wastes in Puerto Rico and their effect. Types of aquatic ecosystems and their physical, chemical, and biological features. Methods of taking, preserving, and analyzing samples of polluted and non-polluted waters. (c)

**CINA4167 - Land Use and Management.**

*Two credits. Three hours discussion, lecture, laboratory, or field trips per week Prerequisites: BIOL 3017, CHEM 3002, NASC 4147.*

Planning, zoning, and establishment of controls for proper land use. Introduction to concepts and techniques of management of forests and other terrestrial ecosystems. Soil use and management with regard to agricultural production, services to industry, non-agricultural purposes and rural-urban balance. Cost benefit

analysis of changes related to land use.

**CINA4177 - Air Resources Management and Maintenance.**

*Two credits. Three hours of lecture, discussion, laboratory, or field trips per week Prerequisites: PHYS 3002, CHEM 3002, NASC 4147.*

Principal air pollutants, pollution sources and their effects. Mechanisms of transport and dispersion orographic and urban effects. Dispersion models for obtaining estimates of pollutant concentration and their use as instruments of regulation and control. Techniques of control, sampling and analysis of air.

**CINA4567 - Sources and Transformation of Energy.**

*Three credits. Two hours of lecture and one hour of seminar per week Prerequisites: QUIM 3001-3002, FISI 3001-3002 OR FISI 3011-3012 OR BIOL 3101-3102 AND QUIM 3031-3032.*

Interdisciplinary study of relevant situations related to energy. the student applies, to relevant current themes, the acquired knowledge in his or her previous courses. the content of the course is based on the unifying local science standards themes which focus on conceptual connections between science disciplines. the unifying themes are studied in relevant situations of daily life such as: the development of a high energy drink, photosynthesis, the flow of energy in a tropical ecosystem, the earth warning, and the formation of hurricanes. January 17, 2001.

**CINA4995 - Selected Topics in Environmental Sciences.**

*One to Three credits. Three hours of lecture per week.*

Selected topics in environmental sciences, like solid wastes, noise, pollution, remote sensing, geology, etc. (c) the course can be repeated up to a maximum of 9 credits.

**CINA4996 - Experiential Learning in Natural Sciences.**

*One to Four credits. Ten to forty internship Prerequisites: INDUSTRIAL MICROBIOLOGY, APPLIED MICROBIOLOGY OR LABORATORY OF MOLECULAR BIOTECHNOLOGY. TO THE CHEMISTRY STUDENTS IT IS REQUIRED TO THEM TO HAVE APPROVED CHEMICAL ORGANIC AND/OR ANALYTICAL.*

A real hands-on learning and working experience for undergraduate students. Students will face meaningful educational experiences, which will bridge the gap between classroom learning and real life, labor force settings. the work

**CINA4997 - Research.**

*One to Three credits. Hours by agreement*

Planning and execution of and individual or group research project either in the laboratory or in the field, on topics regarding environmental management and maintenance. the practical use of the principles of scientific method will be emphasized. Internship with professionals frequently involved in the execution and planning of the environmental research of interest to the students.

**CINA5015 - Commercialization of Scientific Innovations, Discoveries and Technology.**

*Two credits. One hour of lecture and one hour of discussion per week Prerequisites: AUTHORIZATION OF THE DIRECTOR OF THE DEPARTMENT OR OF THE PROGRAM HE/SHE BELONGS.*

Analysis of the historical influences which have encouraged inventions, scientific and technological research and the role of government/academy/ industry in industrial development. Definition and discussion of the procedures for the application of patents, author rights, trademarks and the definition and protection of business secrets. Exploration of ways to create markets for different ideas, products, processes and /or techniques. Discussion of the mechanisms to attract the interest of industrial sponsors towards start ups companies. Analysis of the different methods used to calculate royalties or other forms of compensation, and the negotiating techniques to commercialize these discoveries and innovations. January 17, 2001.

**CINA5990 - Topics in Science, Mathematics Or Technology.**

*One to Three credits. Two hours of lecture and one hour of seminar per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT OR PROGRAM THE STUDENT BELONG.*

Study of specialized themes in science, mathematics, or technology, by experts in different specialized areas, who work in industry, government or federal agencies, to whom students would not have access otherwise. the student can take the course more than once if it is with different themes. (up to six- credits.) January 17, 2001.

**CNEI3005 - Science Pseudoscience and Critical Thinking.**

*Three credits. Three hours of conference per week Prerequisites: HAVE APPROVED TWENTY FOUR COLLEGE*

Conference and discussion about topics that influence and determine our knowledge of the world-the acquisition of information, cognitive biases, logical inferences, probabilities, and common fallacies. Aimed at students of any faculty with the goal of helping them improve their thinking skills, so as to better navigate in this (mis) informational world. the course will discuss which intellectual habits merit respect and which are not consistent with scientific thought, and which lead us to validate fallacies.

**CNEI3203 - Climate Change: A Critical Analysis.**

*Three credits. Three hours of discussion per week Prerequisites: CINA 3005, BIOL 3102 OR AUTHORIZATION OF PROFESSOR.*

The course is based on analyzing and discussing the fundamental of climate change and the challenges projected for Puerto Rico and worldwide from an interdisciplinary perspective. This holistic approach will allow a critical analysis of the impact of climate change on the planet's natural systems, socio-economic structures and proposals on how to mitigate problems associated with human health, the economy and social aspects. This course will be offered in face-to-face, hybrid and online modalities.

**CNEI4011 - Capstone I.**

*One credits. Prerequisites: PERMISSION OF THE DIRECTOR.*

Natural sciences interdisciplinary program students classified in their third year or greater will attend workshops, conferences and receive individualized mentoring in order to design a capstone experience as a closing activity to their undergraduate studies. the capstone proposal will be presented in both written and oral form. Face-to-face, online and hybrid course. Effective January 2021. New prerequisites since March 2018. to have approved all the core courses and at least 15 credits on guided elective courses. Permission of the director of the program. It is recommended to have a course on writing and experience on undergraduate research.

**CNEI4012 - Capstone II.**

*Two credits. Two hours of seminar per week*

Natural sciences interdisciplinary program students will collect and analyze data, prepare a written scientific report and present a poster of their capstone project. Since March 2018 is added the requisite of having approved CNEI 4011 with a grade of c or higher.

**CNEI4015 - Scientific Integrity.**

*Three credits. Three hours of lecture per week.*

Students from the college of natural sciences, from their third year onwards, will learn how to responsibly carry out scientific research including aspects related to ethics, use of humans and animals as research subjects, intellectual property, among others. Educational strategies include class discussion, case studies and group research projects.

**CNEI4085 - Scientific-humanistic Integration: health and Environment.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**CNEI4201 - Health, Environment and Society: Bio-social Integration.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: STUDENTS FROM THIRD YEAR ONWARDS OR PERMISSION OF THE TEACHER.*

The course studies the scientific biological and ecological dimensions of various issues of social importance and explores how these biological dimensions are not often independent of social, economics, and political dimensions but are intertwined with these dimensions, studying the theory behind this idea and four examples of key society problems in which biology and ecology are used to find solutions. This will empower students to find more complete solutions to these problems, be better professionals, and be empowered citizens with a critical scientific education. This will be achieved through readings, presentations, video conferences, instructional modules and discussions in class and forums. The course is aimed at students of the interdisciplinary and biology programs and other natural science students from third year onwards. This course will be offered face-to-face, hybrid and online modalities.

**FISI3001 - General Physics I.**

*Three credits. Three hours of lecture per week.*

A general study of the main subjects in physics. (c)

**FISI3002 - General Physics II.**

*Three credits. Three hours of lecture per week.*

A general study of the main subjects in physics. (c)

**FISI3003 - General Physics Laboratory.**

*One credits.*

Required of all students in the college of natural sciences. One three hour laboratory period per week throughout the semester. Laboratory to accompany physics 3001-3002. (c)

**FISI3004 - General Physics Laboratory II.**

*One credits. Three hours of laboratory per week.*

Required of all students in the college of natural sciences. Laboratory to accompany physics 3001-3002. (c)

**FISI3009 - Introductory Physics Laboratory I and.**

*1 credit.*

One credit three of laboratory work per week.

**FISI3011 - University Physics I.**

*3 credits. Three hours of lecture per week.*

The course discusses topics such as: kinematics, Newton's laws, work, energy, linear momentum, rotation, angular momentum, among others. The emphasis in presenting the content is the use of quantitative reasoning to solve problems. This course will be offered face-to-face, hybrid and online modalities.

**FISI3012 - College Physics II.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3011 OR PHYS 3001, MATH 3151, MATH 4031 CONCURRENTLY OR THEIR EQUIVALENT.*

An introduction to electricity and magnetism with calculus for science majors. Electrostatics; charges and fields. Coulomb's law. Gauss law. Energy of the electrostatic field. Introduction to concepts of vector calculus;

line and surface integrals; gradient, divergence, and curl of a vector function; Gauss and Stokes theorems. Electric potential. Electrical fields in conductors and insulators energy stored in a capacitor. Electric currents. Ohm's law. Circuits, electromotive force. Variable currents in capacitors for potential. Ampere's law. Electromagnetic induction. Displacement current and Maxwell equations. Inductive circuits. Altering current circuits and solutions to linear ordinary equations. At the level of Berkeley series.

### **FISI3013 - Laboratory Physics Laboratory I.**

*3 credits. Three hours of lecture per week Prerequisites: FISI 3011 OR 3012 CONCURRENTLY.*

The laboratory course provides experimental activities that are related to the content of the university physics I course (FISI 3011). The experiments are designed as exploratory activities where students learn by doing and observing the following topics: kinematics, Newton's laws, work, energy, linear momentum, rotation, and angular momentum. Computers are used for data collection, analysis, and report preparation. This course will be offered face-to-face, hybrid and online modalities.

### **FISI3016 - Introduction to Modern Physics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3012.*

An introductory course in contemporary physics for physics majors, with emphasis on the descriptive aspects. Kinetic theory: temperature, pressure and density; equation of state for gases; transport phenomena; Maxwell-Boltzmann distribution. Quantum physics: wave equation; particle nature of light; Bohr atom, electron atoms, atomic spectra. Introduction to the properties of condensed matter. Introduction to properties of the nucleus.

### **FISI3017 - Energy Production, its Technology and the Environment.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002.*

Study of the physics of energy production, existent and possible new technologies, their economic and environmental implications. The concept of energy, energy conservation and the second law of thermodynamics; energy conversion; energy demands and cost; pollution; optimization of the energy system.

### **FISI3021 - Elementary General Physics I.**

*Four credits. Three lectures and one three hour laboratory period each week Prerequisites: OPEN ONLY TO STUDENTS OF PHYSICAL THERAPY AND RELATED FIELDS.*

The elementary principles and applications of physics.

### **FISI3022 - Elementary General Physics II.**

*Four credits. Three hours of lecture and three hours of laboratory work per week Prerequisites: PHYS 3021.*

Introduction to the following fundamental concepts of physics: sound; electricity; electromagnetism; optics; electromagnetic waves. The application of these basic physical principles to the paramedical sciences.

### **FISI3025 - Elemental Modern Physics.**

*Three credits. Three hours of lecture per week, Prerequisites: PHYS 3002.*

A study of the modern concepts in physics, such as the theory of relativity, the quantum theory, the fundamentals of quantum mechanics, electronics configurations in the atom. General applications to chemistry, biology, medicine and other fields.

### **FISI3036 - Physics for Biology and Medicine.**

*Three credits. Three hours of lecture per week Prerequisites: FISI3012*

This course is intended for students in biological and health sciences. The physics topics chosen are selected

with these students in mind and the contexts emphasize the applications of physics to medicine and medical instrumentation. the course serves as an introduction to the physical principles that underlie the dynamics of life from the macro to molecular scale, covering a broad spectrum of topics including aspects of biotechnology, bioengineering, and biomedical physics.

### **FISI3125 - History of the Scientific Revolution.**

*Three credits. Three hours of lecture per week.*

We discuss the formation and development of modern science from the notion that mathematics can be used as a means to understand nature, to experimentalism as a public evaluation mechanism among academic peers. in addition to lectures, students, will have the opportunity to explore their interests, by presenting a book review to their classmates. the topics cover the philosophical beginnings of science in Greek society and its prevalence during the middle age, the seemingly trivial innovation in Copernican astronomy, its implications regarding motion by kepler and galileo, culminating in the famous synthesis of newton's law of gravity. We also discuss the ongoing European development, as well as its eventual expansion into the Hispanic cultural sphere.

### **FISI3171 - Physics I.**

*Four credits. Prerequisites: MATE3151.*

Principles of mechanics, waves, and optics for engineering and the sciences.

### **FISI3172 - Physics II.**

*Four credits. Prerequisites: FISI3171.*

Principles of electricity, magnetism, and modern physics for engineering and the sciences.

### **FISI3173 - Physics Laboratory I.**

*One credits.*

Experiments in mechanics, waves, and optics to complement the physics i course.

### **FISI3174 - Physics Laboratory II.**

*One credits.*

Experiments in electricity, magnetism, and modern physics to complement the physics ii course.

### **FISI4031 - Methods of Mathematical Physics.**

*Three credits. Three hours of lecture per week.*

Selected topics from ordinary and partial differential equations, special functions, vector analysis, series, numerical analysis and elements of complex variables.

### **FISI4032 - Methods of Mathematical Physics.**

*Three credits. Three hours of lecture per week.*

Selected topics from ordinary and partial differential equations, special functions, vector analysis, series, numerical analysis and elements of complex variables. Prerequisite: fisi4031

### **FISI4041 - Special Topics in Physics.**

*Three credits. Three hours of lecture per week.*

Selected topics depending upon the needs of the students.

### **FISI4042 - Special Topics in Physics.**

*Three credits. Three hours of lecture per week.*

Selected topics depending upon the needs of the students.

**FISI4046 - Elements of Quantum Mechanics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3052, MATH 4031. CONCURRENTLY WITH PHYS 4031.*

An introduction to quantum mechanics for physics major emphasis is on the formulation of quantum mechanics. Historical background; state functions; linear momentum; free particle, Schrodinger equation, one-dimensional solutions, solutions in three dimensions including hydrogen-like atoms; angular momentum.

**FISI4047 - Introduction to Solid States Physics I.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 4031, 4036 AND MATH 4031.*

An introduction to solid state physics for physics majors. Crystal structure, crystal binding and elastic properties. Lattice vibrations and thermal properties of insulators. Electronic structure of metals and semiconductors; transport properties. Optical phenomena. Magnetism and cooperative phenomena. Emphasis given to solid state physics experimental techniques.

**FISI4048 - Introduction to Nuclear Physics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 4046, 4032 AND MATH 4031.*

The atomic nucleus, general survey. Relativistic dynamics. Experimental techniques. Radioactivity, nuclear reactions. Nuclear forces. Models of nuclear structure; the shell model. Elementary theory of scattering. Reactors. High energy physics, elementary particles; symmetry of elementary particles.

**FISI4049 - Electronics Circuits and Measurements.**

*Four credits. Three lectures and one three-hours laboratory period a week Prerequisites: PHYS 3002.*

A study of vacuum tubes, transistor power supplies, amplifiers for measurement and control oscillators, servomechanisms, pulse and wave formation, counting, switching, digital and analog circuits, basic instruments and spurious noises.

**FISI4051 - Intermediate Mechanics I.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002.*

Study at an intermediate level of the fundamental laws of classical mechanics, kinematics and dynamics of particles including vector analysis. Foundations of Newtonian mechanics. Collisions motion in non- inertial systems. Harmonic motion. Variational principles and LaGrange equation. Motion in a central potential. Systems of particles, small oscillations, and normal coordinates. the wave equations. Elements of statistical mechanism with applications to thermodynamics.

**FISI4052 - Intermediate Mechanics II.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002.*

Study at an intermediate level of the fundamental laws of classical mechanics, kinematics and dynamics of particles including vector analysis. Foundations of Newtonian mechanics. Collisions motion in non- inertial systems. Harmonic motion. Variational principles and LaGrange equation. Motion in a central potential. Systems of particles, small oscillations, and normal coordinates. the wave equations. Elements of statistical mechanism with applications to thermodynamics.

**FISI4055 - X-ray and Crystal Structure.**

*Three credits. Two lectures and one three hours laboratory period per week Prerequisites: PHYS 3025.*

Production absorption and scattering of x-rays: x-ray spectra, crystalline diffraction, reciprocal lattice scattering by imperfect crystals and liquids; applications to solid state physics; biophysics and physical metallurgy.

**FISI4056 - Modern Optics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3061.*

Wave theory as applied to interference and diffraction phenomena; optics of solids; lasers, holography, nonlinear optics, and other modern topics. Applications of these principles to the design and operation of modern optical instrumentation.

**FISI4057 - Thermodynamics and Statistical Mechanics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 4051 AND PHYS 4031.*

Presentation of the thermodynamic laws at an intermediate level. Application of these laws to magnetic, electric, and solid systems. Introduction to the theory of fluctuations. Introduction to classical statistical mechanics, the microcanonical and canonical ensembles. The statistics of ideal gases of Boltzmann, Bose and Fermi will be studied in relation to physical systems.

**FISI4058 - Undergraduate Research.**

*Three credits.*

Intensive individual work with an experimental or theoretical problem in physics under the guidance of a staff member.

**FISI4068 - Electromagnetism I.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002.*

Electrostatics and magnetostatics. Potential problems, Poisson and Laplace's equations. Multipole fields. Energy relations. Electromagnetic induction. Maxwell's equations Lorentz's force and motion in electromagnetic fields. Wave propagation. Polarization interference and diffraction effects. Interaction of radiation with matter.

**FISI4069 - Electromagnetism II.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002.*

Electrostatics and magnetostatics. Potential problems, Poisson and Laplace's equations. Multipole fields. Energy relations. Electromagnetic induction. Maxwell's equations Lorentz force and motion in electromagnetic fields. Wave propagation. Polarization interference and diffraction effects. Interaction of radiation with matter.

**FISI4076 - Intermediate Laboratory I.**

*Two credits. Six hours of laboratory work per week Prerequisites: PERMISSION OF THE CHAIRMAN DEPARTMENT.*

Fundamental experiments in optics, thermodynamics, electrodynamics, mechanics, and atomic physics.

**FISI4077 - Intermediate Laboratory II.**

*Two credits. Six hours of laboratory work per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Fundamental experiments in optics, thermodynamics, electrodynamics, mechanics, and atomic physics.

**FISI5005 - Introduction to Biological Physics.**

*Three credits. Three hours of lecture per week Prerequisites: FISI 3012, MATE3151, BIOL 3101, OR ITS EQUIVALENTS AUTHORIZATION OF THE DIRECTOR OF THE DEPARTMENT.*

Applications of the concepts of physics to the understanding of cells and life in general. These include the basic concepts of mechanics such as energy conservation, statics and equilibrium conditions, harmonic motion; analogous concepts from thermodynamics (temperature, entropy, equation of state, Boltzmann



distribution) other concepts and application of physics such as random walk and diffusion are also introduced.

### **MATE3001 - Introductory Mathematics I.**

*Three credits. Three hours of lecture per week.*

Elements of set theory and logic. Number systems. Exponents and radicals. Polynomials and rational expressions. Elementary functions and their graphs. Equations and inequalities. Systems of linear equations. Quadratic equations. (c) 18-08-96

### **MATE3016 - Introduction to Mathematics.**

*Three credits. Three hours of lecture per week.*

Elements of set theory and logic. Number systems. Review of the arithmetic operations. Factoring. Exponents. Linear equations in one unknown. Systems of linear equations. (c) 19-08-96

### **MATE3017 - Introduction to Hand-Held Programmable Calculators.**

*One credits. Two hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

Pre-programmed scientific functions, flowcharts, basic ideas in programming, loops, memory arithmetic, decisions, labels, data manipulation, precision subroutines, scientific applications. 19-08-96

### **MATE3018 – Pre-Calculus and Analytical Geometry.**

*Four credits. Four hours of lecture and one of discussion per week Prerequisites: MATH 3001 OR ITS EQUIVALENT.*

Elementary logic and set theory. the field of real numbers, inequalities. Absolute value. Subsets of the real numbers. the natural numbers and proof by induction. Binomial theorem. Sequences and series. Limits of sequences. Functions. Algebra of functions. Graphs. Analytic geometry. the field of complex numbers. Polynomials over the complex numbers. the fundamental theorem of algebra. Trigonometric functions. Inverse trigonometric functions. Exponential and logarithmic functions. (c) 19-08-96

### **MATE3019 - College Geometry.**

*Three credits. Three hours of lecture per week.*

The study of Euclidean geometry with emphasis on the proof of propositions and theorems. Axioms of incidence, of distance, of interposition, of separation of the plane, concerning the construction segments. the parallel postulate. Axioms and basic theorems related to the congruence and similarity of triangles. Elementary properties of quadrilaterals. Ruler and compass constructions. Axioms and basic theorems concerning the areas of polygonal regions. (c) 19-08-96

### **MATE3025 - Introduction to Computer Assisted Instruction.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Introduction to computer assisted instruction (cai). the design and implementation of cai modules using high level languages. 19-08-96

### **MATE3026 - Introduction to Statistics with Computers.**

*3 credits. Three hours of lecture per week Prerequisites: POSSESS THE LEVEL OF PROFICIENCY EQUIVALENT TO A PREPARATORY COURSE FOR CALCULATION AND ANALYTIC GEOMETRY, THIS CORRESPONDS TO FOUR POINTS OR MORE IN THE ADVANCED PLACEMENT COLLEGE BOARD II.*

Descriptive statistics. Basic probability concepts, standard discrete and continuous random variables. Sampling distributions. Confidence intervals and test of hypotheses for one and two populations. One way analysis of variance. Chi-square tests. Simple linear regression and correlation. Weekly problem- solving sessions using the computer.

**MATE3027 - Statistical Methods.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3026.*

Sampling distributions. Hypothesis testing. Non-parametric methods. Introduction to the analysis of variance. Experimental design. Polynomial and multiple regression. Aptness of regression models and remedial measures. Inferences in regression analysis. the course will emphasize techniques which are important in the natural sciences and their implementation using statistical computer packages. 19-08-96

**MATE3028 - Introduction to Computer Programming.**

*Three credits. Three hours of lecture and two of laboratory work per week Prerequisites: MATH 3018.*

The study of high-level computer language, with the purpose of preparing the student to write moderately complex programs using structure programming techniques and stepwise refinement. Basic programming concept such as control structures, input-output statements, scalar and structured data types, functions, and procedures. 19-08-96

**MATE3030 - Advanced Geometry.**

*Three credits. Three hours of lecture per week.*

Review of Euclidean, geometry with emphasis on its logical structure. Geometry of the triangle and circle. Elements of non-Euclidean geometry. 19-08-96

**MATE3036 - Fundamental Concepts in Mathematics.**

*Three credits. Three hours of lecture per week.*

Course recommended as an option for the students, future elementary school teachers, to fulfill the logical mathematical or quantitative analysis area of the general education component. Analysis of how the concepts of number and space have been changing in mathematics. Through the development of these concepts, the effect of cultural and internal forces on the discipline can be seen. the study of various number systems helps to understand our own number system. the course discusses: integer and rational numbers; as well as operations among them; ratios, proportions and percent; algebra, solving equations and their role in the solution of world problems; descriptive statistic, tables, graphs, measures of central tendency and dispersion; basic concepts of probability; basic concepts of Euclidean geometry: such as three-dimensional figures and their properties; polygons, basic elements for describing space, measurement of length, area, volume and angles. Through the study of these themes, an inquisitive and reflexive attitude is promoted. As the same time, the students will reflect about the nature of the mathematical and statistic knowledge.

**MATE3037 - Introductory Set Theory.** Beginning of the document

*Three credits. Three hours of lecture per week Prerequisites: MATH 3018.*

Sets, functions, relations. Ordered sets. Axiom of choice. Cardinal and ordinal numbers. Introduction to Boolean algebra and lattice theory.

**MATE3040 - Theory of Numbers I.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3152.*

Divisibility and number systems. Common divisors and multiples. Euclid's algorithm. Methods of Fermat, Euler and Brun. Introduction to the theory of primes. Functions of the theory of numbers. Linear Diophantine equation. Congruences. Historical development and contributors to the theory. 19-08-96

**MATE3041 - Introduction to Mathematics I.**

*Three credits. Three hours of lecture per week Prerequisites: ELEMENTARY KNOWLEDGE OF ALGEBRA AND GEOMETRY.*

Notions of sets theory and logic. Axioms and elementary properties of the real numbers. Linear equations

and inequalities. Laws of exponents. Binary and other scales. Introduction to the computer and elementary programming. the course will emphasize an understanding of the methods and philosophy of mathematics. (c) 19-08-96

### **MATE3042 - Introduction to Mathematics II.**

*3 credits. Three hours of lecture per week.*

Functions and graphs. Elements of Euclidean geometry. Measures of area and volume. Elements of probability and statistics. the normal distribution. the course will emphasize an understanding of the methods and philosophy of mathematics. (c)

### **MATE3070 - Undergraduate Seminar I.**

*One credits. One hour of seminar per week.*

This course is designed for students who are currently in their semester in their third semester in the mathematics program. This seminar offers a general vision about the program in mathematics. It also offers information about graduate studies in mathematics and the different professions in the field. A central objective of the course is to help students improve the way they express themselves when talking about mathematics (both, at the oral level as well as the written level). the instructor will give a brief

### **MATE3101 - Applied Statistics I.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3018.*

One variable techniques stem and leaf plots, median, mean, quartiles, outliers, box plots. Two variable techniques: scatter plots, lines on scatter plots. Experimenting with change. Elementary combinatorics. Probability. Mutually exclusive and independent events. Random number generators. Simulation models. Sampling distributions. Confidence intervals. 19-08-96

### **MATE3102 - Applied Statistics II.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3101.*

Correlation and regression. Statistical inference. Hypothesis testing. Goodness of fit. Small sample statistics. Statistical design of experiments. Non-parametric methods. A project involving statistical calculation will be required of each student. 19-08-96

### **MATE3105 - Appreciation of Mathematics.**

*Three credits. Three hours of lecture per week.*

The nature of modern mathematics including: the elements of set theory, logic, number systems, some properties of the real numbers, probability, and statistics. (c)

### **MATE3131 - Fundamental Concepts of Arithmetic and Algebra for Elementary School Teachers.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF THE COLLEGE OF EDUCATION.*

Algebraic properties of the integers, the natural numbers, and rational numbers. the decimal number system. Ordering of numbers. The number line. Solution of simple equations and inequalities. Measurement and approximation. Divisibility rules. Maximum common divisor and minimum common multiple. Percentage. Ratio and proportion. Word problems. Graphs. Correspondences. the real numbers. (c) 19-08-96

### **MATE3132 - Fundamental Concepts of Geometry, Probability and Statistics for Elementary School Teachers.**

*3 credits. Three hours of lecture per week.*

Geometry of the Euclidean plane: axioms and primitive concepts, simple geometric proofs, elementary properties of triangles, quadrilaterals and circles, rule, and compass constructions, the cartesian coordinate system, measures of pyramids, prisms, cylinders, cones, and spheres, measures of volume, applications.

Statistics: exploratory data analysis, group and non- group data, measures of central tendency and dispersion, probability, independent and mutually exclusive events, normal distributions, and applications. New description June 2008.

### **MATE3135 - Introduction to Trigonometry and Analytical Geometry.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3001.*

Functions and their graphs. Algebraic and trigonometric functions; trigonometric identities. Exponential and logarithmic functions. Complex numbers. Introduction to analytic geometry; equations of lines and conics polar coordinates, the general second-degree equation. Introduction to vector analysis.

### **MATE3141 - Introduction to Probability and Statistics.**

*Five credits. Five hours of lecture per week Prerequisites: MATH 3151 OR CONCURRENTLY.*

Descriptive statistics. Probability theory. Sampling distributions. Estimation. Hypothesis testing. Non-parametric statistics. Correlation and regression. 19-08-96

### **MATE3151 - Calculus I.**

*4 credits. Four hours of lecture per week and one of laboratory per week Prerequisites: TO HAVE A LEVEL OF KNOWLEDGE EQUIVALENT TO A PREPARATORY COURSE FOR CALCULUS AND ANALITIC GEOMETRY WHICH CORRESPONDS TO 4 POINTS OR MORE IN THE ADVANCED PLACEMENT II OF THE COLLEGE BOARD.*

Limits and continuity of functions of one variable, differentiation, and its application to optimization. Antiderivatives. the mean value theorem corollaries. The definite integral and its applications. The definition and properties of the logarithmic and exponential functions using the calculus. (c)

### **MATE3152 - Calculus II.**

*Four credits. Four hours of lecture and one of laboratory per week Prerequisites: MATH 3151*

Transcendental functions. Techniques of integration. the conic sections, polar coordinates, parametric equations, sequences, indeterminate forms, improper integrals, and infinitive series. (c) 18-08-96

### **MATE3153 - Calculus III.**

*Four credits. Four hours of lecture and one hour of laboratory per week Prerequisites: MATH 3152 OR ITS EQUIVALENT.*

Vectors, vector calculus, functions of several variables, gradients, double and triple integrals, line, and surface integrals.

### **MATE3163 - Mathematical Methods for Physical Chemistry.**

*Four credits. Four hours of lecture per week Prerequisites: MATE 3151 OR EQUIVALENT. QUIM 3001-3002 OR EQUIVALENT.*

This course has been designed for chemistry students. the purpose is to expose the student to a series of techniques and topics at an opportune moment in his or her academic training. It also includes the use, at all times, of a computer algebraic system (CAS). the topics to be covered are the following: integral calculus: antiderivatives, indefinite and improper integrals. Integration methods, numerical integration. Probability distributions and mean values. Series and transforms: Fourier, LaPlace. Several variables calculus: partial derivatives, exact and inexact differentials, multiple and line integrals. Extreme values in several variables. Differential equations: Newton's laws, harmonic oscillator, separable equations, exact and inexact: equations, partial derivatives equations, solution methods: LaPlace transform, numerical. Operators, matrix and group theory, Cramer's rule, matrix inverses. Experimental data treatment: random errors, data reduction, error propagation, least squares method.

### **MATE3170 - Undergraduate Seminar II.**

*One credits. One hour of seminar per week Prerequisites: MATE3070, MATE4081, MATE4009, MATE4031.*  
Based on the reading of mathematical article, the students will appreciate the acquired knowledge, will evaluate his or her comprehension and mathematical language developed during his or her studies. In this course each student will choose a mathematical article from mathematical journal. The students will read the article, make an oral presentation about it, will turn in a written report and will make a poster presentation to showcase the most significant results. The students will learn basic latex to help them write their written assignments required for this course.

### **MATE3171 - Precalculus.**

*Three credits. Three hours of lecture per week*

Systems of real numbers, equation, inequalities. Cartesian plane, midpoint, distance, circle, line, basic functions, transformations of functions, operations with functions, inverse functions, complex numbers, polynomial functions, and rational functions. Each unit can add 20% of content.

### **MATE3172 - Precalculus II.**

*Three credits. Three hours of lecture per week Prerequisites: MATE3171 O MATE3173*

Exponential functions, logarithm functions trigonometric functions, systems of equations, matrices, determinants, sequences and series. Each unit can add 20% of content.

### **MATE3325 - Introduction to Discrete Mathematics.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3151 OR PERMISSION OF THE DIRECTOR.*

Logic, basic set theory, proof, techniques, relations, functions, countability and counting arguments, mathematical induction, graph theory, combinatorics, discrete probability, recurrence relations, number theory and cryptography.

### **MATE4009 - Ordinary Differential Equations.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 3152.*

Ordinary differential equations of the first order. Linear differential equations with constant coefficients. Linear differential equations of the second order. Systems differential equations. Applications. 19-08-96

### **MATE4015 - Introduction to Small Systems.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3026 OR 3028.*

Computer systems organization logic design, data representation and transfer, digital arithmetic, digital storage and accessing, microcomputers, with emphasis on scientific applications.

### **MATE4019 - Metric Differential Geometry.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4031.*

Tangent, principal normal and binormal of a curve. Osculating plane. Curvature and torsion. The Frenet's formulas. Special curves. Regular surfaces. The first and second fundamental forms. Total and mean curvature. The fundamental theorem of surfaces. Minimal and ruled surfaces. Conformal mappings and isometries. 19-08-96

### **MATE4021 - Mathematical Logic.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4032.*

Propositional calculus. First order predicate calculus. Syntactic and semantic approach to the concept of truth. Gödel's completeness theorem. Model theory. Decision problems the arithmetic of logic. 18-08-96

### **MATE4022 - Advanced Mathematical Logic.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4021.*

Formal number theory. Axiomatic set theory; effective computability. Gödel's incompleteness theorem and related topics. 19-08-96

### **MATE4031 - Linear Algebra.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3151.*

Matrix algebra. Determinants. Systems of linear equations. Finite dimensional vector spaces. Linear dependence and independence. Bases. Euclidean spaces. Linear transformations the matrix of a linear transformation. Similarity transformations. Eigenvectors and eigenvalues. Inner products. Norms. Orthogonal projection. Gram-Schmidt orthogonalization. 19-08-96

### **MATE4032 - Basic Structures of Advanced Algebra I.**

*3 credits. Three hours of lecture per week Prerequisites: MATH 3151.*

Introduction to group theory. Coset's and LaGrange's theorem. Normal subgroups and quotient groups. Group homomorphisms. the isomorphism theorems. Finite groups. Permutation groups and Cayley's theorem. (c)

### **MATE4033 - Basic Structures of Advanced Algebra II.**

*3 credits. Three hours of lecture per week Prerequisites: MATH 4032.*

Introduction to rings. Subrings. Ring homomorphisms. Ideals and quotient rings. Polynomial rings. the field of fractions of an integral domain. Introduction to field theory.

### **MATE4045 - Partial Differential Equations.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4009.*

Review of calculus of several variables and ordinary differential equations. Classification of partial differential equations. Characteristics. the LaPlace equation, the wave equation and the Schrodinger equation. the method of separation of variables. Representation of solutions. Fourier series and boundary value problems. Harmonic functions. 19-08-96

### **MATE4060 - Modern Mathematics for Teachers.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Notions of set theory and logic. Methods of proof. Simple examples of proofs selected from fields such as geometry, graph, theory, combinatorics, number theory and set theory examples of algebraic structures. Groups of symmetries, permutations, and geometric transformations. the ring of integers modulo  $n$ . Polynomial and matrix rings. Vectors in the plane and their algebraic properties. (c) 19-08-96

### **MATE4061 - Numerical Analysis I.**

*Three credits. Three hours of lecture per week*

An introduction to the basic principles and methods of numerical analysis. Approximation in analysis and linear algebra. Analysis of error propagation. Interactive methods. 19-08-96

### **MATE4062 - Numerical Analysis II.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4061.*

Numerical methods for the solution of linear and nonlinear equations. Interpolation. Numerical differentiation and integration. Determination of proper values and vectors of a matrix. Approximate solution of ordinary and simple partial differential equations. Approximation and representation of functions. 19-08-96

### **MATE4063 - Analysis of Several Variables.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4031.*

Calculus of vector functions. Implicit and inverse function theorems. LaGrange multipliers. Exterior differential calculus. the theorems of green, stokes and gauss. 19-08-96

### **MATE4065 - Linear Programming.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 4031.*

the course covers the basic theory and algorithms behind linear programming along with some important applications. Major topics are linear programming problem, simple models and applications of linear programming. Elements of convexity and linear algebra. the linear programming formulation and the underlying assumptions. Graphical solutions for the linear programming's with 2-3 variables. Basic feasible solutions and the extreme points. the fundamental theorem of linear programming. The simplex algorithm. Duality and dual simplex algorithm. the transportation problem and the transportation algorithm.

### **MATE4080 - Applied Modern Algebra.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3035.*

Groups and finite fields and their application to coding theory. Boolean algebra and its application to circuit theory and program logic. Semigroups and their applications to the theory of machines. 19-08-96

### **MATE4081 - Advanced Algebra I.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 3325, CCOM 3020.*

This course is addressed to students of mathematics and computer sciences. Discussion of the basic facts about groups, rings, integral domains, and polynomial rings. Major topics are: (a) in group theory: introduction to group theory, cosets and LaGrange's theorem, normal subgroups and quotient groups, group homeomorphism, the isomorphism theorems, finite groups, permutation groups and Cayley's theorem. (b) in rings theory: introduction to rings theory, integral domains, ring homomorphisms, ideals and quotient rings, the field of fractions of and integral domain, polynomial rings.

### **MATE4082 - Advanced Algebra II.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 4081, MATE 4031.*

This course is addresses to mathematics majors and for students preparing for graduate studies in pure mathematics and in some related fields. the course continues and extends the study of algebraic structures innated in the course advanced algebra i. Major topics are: (a) in group theory: group actions and the sylow theorems; (b) in ring theory: unique factorization domains, Euclidean domains. Noetherian rings; (c) in field theory: introduction to field theory, algebraic extensions, splitting's fields.

### **MATE4089 - Geometry.**

*Three credits. Three hours of lecture per week*

A course addressed to mathematics majors that follows an axiomatic method to study geometry (Euclidean and hyperbolic). the course emphasizes definitions, axioms, theorems, and proofs. Topics covered include historical back- ground, Hilbert's axioms for Euclidean geometry; neutral geometry; Euclidean geometry of the plane, non-Euclidean geometries; transformational geometry, isometries.

### **MATE4090 - Introduction to Mathematical Modeling.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4009, 4031 OR 5001*

the concept of a mathematical model. Utility and limitations of models. the three stages: abstraction, idealization and formulation; solutions of the mathematical problem; relevance of the solution to the original problems. the major work of each student will be the construction and analysis of a model for a specific problem.

### **MATE4100 - Operations Research.**

*Three credits. Three hours of lecture per week.*

Introduction to mathematical models and various other techniques used in the identification and application of quantitative methods employed in optimum procedures.

### **MATE4120 - History of Mathematics.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4032.*

The history of mathematics with special reference to astronomy, classical mechanics, and mathematical physics. (c) 19-08-96

### **MATE4135 - Probability and Statistics.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3062 AND 3033.*

Probability. Discrete and continuous distributions. Pseudo-random number generators. Graphical and descriptive methods. Statistical inference. 19-08-96

### **MATE4225 - Introduction to Graph Theory.**

*Three credits. Three hours of lecture per week Prerequisites: MATE3325 OR CCOM3020*

This course is designed for undergraduate students in mathematics, computer science and for any other student interested in mathematics. the course will be given by regular lecturing in a classroom. the topics of the course are review of mathematics foundation. Graphs, digraphs, and binary relations. Functions and their digraphs. Bipartite graphs. Block structure of graphs. Cycles and bonds. the graph degree function and the switch operation. Subgraphs and minors. Paths, trails, and walks. Graph connectivity. Euler's trails and tours. Labyrinth problem. Trees and forests. Graph and subgraph counting problems. the pruffer coding of a graph spanning trees and the number of spanning trees in a complete graph.

### **MATE4995 - Topics in Mathematics.**

*One to Three credits. One to three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

### **MATE4996 - Independent Undergraduate Studies.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR.*

Undergraduate independent study under the supervision of a member of the mathematics department. 19-08-96

### **MATE5001 - Probability I.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3101 OR ITS EQUIVALENT.*

Three credits. Three hours of lecture per week Prerequisites: MATH 3101 OR ITS EQUIVALENT.

### **MATE5002 - Statistics.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 5001.*

Theory of statistical inference. Estimators and methods for estimation. Hypothesis testing. Nonparametric methods. Emphasis will be placed on mathematical rigor and the formal development of the subject. 19-08-96

### **MATE5007 - Computational Number Theory.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4032, HIGH LEVEL LANGUAGE AS PASCAL OR "C" AND PROFESSOR'S PERMISSION.*

Ring of integers, and ring of polynomials as Euclidean domains. Application of these concepts to justify the different methods to determine primality, such as Selfridge's method. A detailed study and implementation of the usual algorithms used to integers and to determine primality.



**MATE5037 - Introduction to Complex Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3153.*

Algebra of complex numbers, analytic functions, integration, meromorphic functions, residue calculus, and conformal mappings. 19-08-96

**MATE5100 - Applied Combinatorics.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4032.*

Representation of integers sets and graphs. Applications to sorting and searching methods. Counting and enumeration techniques including polyad's theory of counting. Topics form graph theory. 19-08-96

**MATE5101 - Algebra I.**

*Four credits. Four hours of lecture per week Prerequisites: MATE 3151.*

Group theory and ring theory.

**MATE5102 - Algebra II.**

*Four credits. Four hours of lecture per week Prerequisites: MATE 5101 (ALGEBRA I). REQUISITE*

Field theory and linear algebra.

**MATE5201 - Advanced Calculus I.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3153.*

the systems for real and complex numbers. Elements of topology. Sequences and series of numbers. Continuity. Differentiation. the Riemann stieltjes integral. 19-08-96

**MATE5205 - Advanced Calculus II.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 5201- ADVANCED CALCULUS I, MATH 4031-LINEAR ALGEBRA RECOMMENDED, OR PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Series of real and complex numbers. Sequences and series of functions, uniform convergence, power series. the Euclidean space: elementary topology of iron. Notions on metric spaces. Functions of several variables: continuity and differentiation. Contraction mapping theorem. the implicit function theorem. Integration on irn: fundamental theorems of vector calculus.

**MATE5206 - Discrete and Convex Geometry.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 5201 AND MATE 4031. GRADUATE STUDENTS NEED PERMISSION FROM THE DIRECTOR OF THE DEPARTMENT.*

This course provides an introduction to method, ideas of convex and disc rete geometry and to its applications. Topics covered include convex sets, affine and convex sets, affine and convex sets, affine and convex hulls, linear and affine transformations. Hyperplanes and their linear presentations, separating and supporting hyperplanes. Helly-type and Hirschberger theorems. Families of convex sets; parallel bodies. Local convexity, local support properties, nearest-point properties. Polytopes, faces, special examples and Euler's formula. Duality and polity. Convex functions, support and distance functions, continuity, and differentiability.

**MATE5207 - Introduction to Coding Theory.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 4031, MATE 4032.*

This course is an introduction to classical and modern topics in coding t6heory. Major topics are introduction to Shannon's theorem; linear codes; some good codes; basic bounds on codes; cyclic codes; perfect codes; low density parity check (ldpc) codes and expander codes and their decoding; intro- duction to selected topics, E. G. chosen from, gopak codes, algebraic geometric codes, convolucional codes, arithmetic codes, z4

codes.

### **MATE5208 - Cryptography.**

*Three credits. Three hours of lecture per week Prerequisites: "MATE 4031, MATE 4032. GRADUATE STUDENTS NEED TO DIRECT THE DEPARTMENT PERMISSION.*

Introduction to modern cryptography and its applications. Topics covered are: fundamentals (authentication, integrity, and non-repudiation; algorithms and keys; symmetric and public key algorithms; cryptanalysis); introduction to Shannon's theorem and perfect secrecy; one-time pad; public key cryptography: the RSA system; the gamal cryptosystem and discrete log; the mceliece system based on algebraic coding theory; signature schemes: the digital signature standards; key distributions; secret sharing schemes: digital security standards: introduction to quantum cryptography and quantum computing.

### **MATE5209 - Mathematics Modeling in Biology.**

*Three credits. Three hours of lecture per week Prerequisites: MATE4009, MATE4031 OF PERMISSION OF THE PROFESSOR*

This course provides an introduction to the use of continuous and discrete differential equation in the biological sciences. A variety of topics in population biology and biomedical sciences will be considered including single and competing species ecological models, enzyme reaction kinetics, epidemiology, and infectious diseases. the course moves from classical to contemporary models at the population, organ, cellular, and molecular levels. We will develop and analyze mathematical models to investigate mechanisms underlying specific biological processes. Another major emphasis of the course is illustration how these models can be used to generate predictions about currently untested conditions. This is a lecture, discussion and problem-solving course in which topics are presented by the instructor, practice problems and examples are explained, and assigned work is completed by students outside of class.

### **MATE5227 - Mathematical Models in Operation Research.**

*Three credits. Three hours of lecture per week Prerequisites: MATE3153 MATE5001*

This course is designed for students in applied mathematics. the course focuses on deterministic and probabilistic mathematical modeling of real-world problems. the topics to be covered are the followings: linear, dynamic, and nonlinear programming; inventory models; decision analysis; queueing theory; and Markov chains. This is a lecture, discussion and problem-solving course in which topics are presented by instructor, practice problems and examples are explained and assigned work is completed by students outside of class.

### **MATE5301 - Analysis I.**

*Four credits. Four hours of lecture per week Prerequisites: MATE 3153. REQUISITE*

Elements of logic and set theory. the field of real numbers. Basic topology. Numerical series. Continuity. Differentiation. the Riemann integral.

### **MATE5302 - Analysis II.**

*Four credits. Four hours lecture per week Prerequisites: MATE 5301 (ANALYSIS II). REQUISITE*

The Riemann-Stieltjes. Sequences and series of functions. Power series. Fourier series. Function of several variables. Integration of differentiable forms.

### **METE3901 - Meteorological Microsatellites I.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PERMISSION OF THE PROFESSOR.*

This course provides hands-on experience in the design and development of meteorological micro-satellites, including the application of concepts and techniques on telemetry, electronics, microprocessor

programming, optics, tele-communications, and device tracking using the global positioning system (GPS) it is addressed to science and non-science majors interested in scientific instrumentation and atmospheric data. It includes activities such as to carry out the balloon micro-satellite launching, tracking and recovery.

### **METE3902 - Meteorological Microsatellites II.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: METE 3901-METEOROLOGICAL MICROSATELLITES I OR AUTHORIZATION OF PROFESSOR.*

This course provides advanced experiences in the design and development of meteorological micro-satellites. Emphasis is made in the development of a reusable system, capable of sampling the atmosphere and of transmitting data in real time, which requires complex microprocessor programming and active use of the global positioning system (gps). This course is addressed to science and non-science majors who want to gain a higher-level experience in scientific instrumentation for atmospheric sampling and data acquisition in real time. It includes activities such as to carry out the balloon micro-satellite launching, tracking, and recovery.

### **METE4005 - Meteorological Aspects of Environmental Pollution.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 3001-3002. COURSE IN THERMODYNAMIC OR ITS EQUIVALENT.*

Emission and dispersion of pollutants from intense fixed sources. Diffusion models. Urban transport of pollutants. Effect of wind systems, atmospheric stability, topography, and regional circulation on the spatial distribution of air pollution. (c)

### **METE4006 - Introduction to Climatology and Meteorology.**

*Three credits. Three hours of lecture per week.*

Introduction to the study of physical processes that produce the atmospheric phenomena responsible for our climate. Emphasis on tropical meteorology and applied topics such as, for example weather. Forecast and the

### **NUTR3100 - Fundamentals of Human Nutrition and Wellness.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Discussion of fundamental topics of nutrition, including nutrients found in food, and their functions in the human body, as well as the most recent trends in nutrition, health, physical activity, and wellness. Awareness will be raised regarding personal food choices and physical activity to live longer, healthier lives. the classroom course is complemented with online experiences using the institutional learning management system (face to face hybrid and online course. the course is for the university community not majoring in nutrition.

### **NUTR3340 - Food and Culture.**

*Three credits.*

This course is focused on a comprehensive analysis of environmental and sociocultural factors that affect human eating practices. the impact of world-wide cultural aspects of eating practices and chronic diseases and the development of culturally specific eating suggestions for chronic diseases prevention are emphasized. the audience for this course include undergraduate students interested in learning about the impact of good practices and nutrition in other cultures. This course will be offered face-to-face, hybrid and online modalities. Special requirements: basic to intermediate skills in computer use, like the ability to manage email, use of Microsoft, word, PowerPoint and excel.

### **NUTR4031 - Food Science.**

*Three credits. Prerequisites: QUIM3001*

Study of the principal food groups according to their chemical nature and the reactions they undergo during

processing and preparation. Emphasis is given to sanitation, nutrient, retention and quality standards. the laboratory includes experiments to illustrate basics principles and practical application of those principles in food preparation. This course substitutes ecdo4031

#### **NUTR4041 - Human Nutrition I.**

*3 credits. Two hours of discussion and two hours of laboratory work per week Prerequisites: BIOL3711, QUIM3001. Corequisites: NUTR4045, BIOL3712*

Fundamental knowledge of the science of nutrition, including nutrients found in food, and their function in the human body. Special emphasis is given on the study of factors necessary to select and plan a healthy diet for individuals and groups.

#### **NUTR4042 - Human Nutrition II.**

*3 credits. Two hours of discussion and two hours of laboratory per week Prerequisites: NUTR 4041, NUTR 4045, NUTR 4158 AND BIOL 3712.*

Integration of the contribution of various scientific disciplines to the study of nutrition. the biochemical and physiological basis of nutrition will be emphasized. Includes a critical review of recent nutrition literature. the course can be offered face to face or hybrid.

#### **NUTR4045 - Applied Human Nutrition I.**

*1 credit. Two hours of workshop or laboratory work per week Prerequisites: BIOL3711, QUIM3001 Corequisites: NUTR4041*

Applications of the techniques and methods used in the assessment of human nutrition for future health professionals.

#### **NUTR4055 - Food Purchasing for Food Service Systems.**

*Two credits. One hour of discussion and two hours of workshop per week Prerequisites: NUTR4031,4075*

Two credits. One hour of discussion and two hours of workshop per week Prerequisites: NUTR4031,4075

#### **NUTR4068 - Layout Design and Equipment Purchasing for Foodservice Systems.**

*Two credits. Prerequisites: NUTR4031,4075,*

Planning and layout design for foodservice system facilities. Factors affecting selection and purchasing of institutional equipment. Quality management approaches to develop productivity and work simplification. Principles for facilities cleaning, sanitation, and safety. Since august 2016 eliminates nutr4075 as a prerequisite this course substitutes ecdo4065

#### **NUTR4075 - Foodservice Systems Administration.**

*Three credits. Four hours of lecture per week.*

Management, theories, policies, procedures, functions, and administrative responsibilities within the organizational structure of the foodservice system including technologies information system. Face to face hybrid and distance course. Since august 2016 adds prerequisites: nutr4055, NUTR4068 this course substitutes ECDO 4075

#### **NUTR4076 - Applied Concepts of Foodservice Management.**

*Two credits. Three hours of workshop per week*

Two credits. Three hours of workshop per week

#### **NUTR4085 - Quantity Food Production.**

*3 credits. One hour of discussion and six hours of laboratory work per week*

Emphasis on management procedures to follow in a foodservice system. the major principles of management

(planning, organizing, staffing, leading, and controlling) are applied to such system. All the resources of a foodservice facilities, such as food supply, physical facilities, equipment, time, money, and employees are utilized. Emphasis is also given to quality control and the methods of food production and service.

#### **NUTR4086 - Menu for Foodservice Systems.**

*Three credits. Prerequisites: NUTR4031,4041,4045,4055,4065,4075, BIOL3770*

Theory and mechanics for the design of institutional menus. Experiences in standardization of recipes, portion control, food preparation methods and menu pricing systems. Basic concepts of computerized menu planning and analysis. This course substitutes ecd04086

#### **NUTR4158 - Human Biochemistry.**

*3 credits. Three hours of lecture per week Prerequisites: QUIM 3015, BIOL 3711, NUTR 4041, NUTR 4045.*

*EVIDENCE OF (3) DOSE OF HAPATITIS VACCINES.*

Discussion on the study of the chemistry and metabolism of the principal biomolecules within the conceptual framework of nutrition, emphasizing applications in human health and disease. the course can be offered face to face or hybrid.

#### **NUTR4159 - Human Biochemistry Laboratory.**

*1 credit. Three hours of laboratory Prerequisites: QUIM 3015, NUTR 4041,4045, BIOL 3712, BIOL 3349.*

*Corequisites: NUTR 4158.*

A laboratory of scientific experimentation related to the analytical techniques used in human biochemistry within the conceptual framework of nutrition and metabolism, emphasizing applications in human health and disease.

#### **NUTR4165 - Clinical Dietetics.**

*3 credits. Prerequisites: NUTR4158, 4159 APPROVED WITH A GRADE OF C OR HIGHER. Corequisites: NUTR4042, 4169 OR PREVIOUSLY APPROVED WITH A GRADE OF C OR HIGHER.*

Study of the advances and recent trends related to medical nutrition therapy in both health and disease. Diseases and conditions more prevalent in pr are emphasized. the revised format will allow the course to be available to professional practitioners in the discipline of nutrition and dietetics. Face-to-face, hybrid and online course

#### **NUTR4166 - Advanced Clinical Dietetics.**

*2 credits. Two hours of discussion and two hours of laboratory per week Prerequisites: NUTR 4042, NUTR 4165, NUTR 4169.*

Conference and discussion on the advances and trends in medical nutrition therapy for patients with diverse health conditions. Emphasize in prevalent health diseases in Puerto Rico. Intended for nutrition and dietetic students to allow them to determine the correct nutrition therapy for the improvement or the treatment nutritional status of patients or clients. the course can be offered face to face or hybrid.

#### **NUTR4169 - Applied Clinical Dietetics.**

*1 credit. One*

Study and application of the support components of clinical practice in nut nutrition and dietetics necessary for the medical nutrition process. Emphasis placed on skill development, mainly related to the nutrition care process, diet calculations and case studies. the revised format will allow the course to be available to practitioners in the discipline of nutrition and dietetics. Face-to-face, hybrid and online course.

#### **NUTR4170 - Methods in Nutrition Education.**

*Two credits. One hour of discussion and three of laboratory per week Prerequisites: NUTR4031,4041,4045,*

### *TEED3018*

Discussion of the basic principles of the teaching-learning process with emphasis in planning and design of nutrition education activities for different age-groups including those with special needs. This course substitutes ecdo4170

### **NUTR4175 - Practicum in Nutrition Education.**

*One credits. Prerequisites: NUTR4170*

Teaching-learning experiences with groups and/or individuals from different age-groups, socio-economic and instruction levels, and those with special needs. the student is assigned to practicum centers which will include schools, day care community and senior citizen centers, WIC program and others includes online experiences using black board platform. This course substitutes ecdo4175

### **NUTR4176 - Nutrition in the Community.**

*Two credits. Prerequisites: NUTR4170*

Emphasizes the philosophy and objectives of agencies and community nutrition programs. Includes basic knowledge of the nature, causes, and extend of nutrition problems in the world with emphasis in Puerto Rico, considers planning methodology and evaluation of nutritional status and provides interactive experiences in different areas of public health. This course substitutes ecdo4176

### **NUTR4197 - Research for Nutrition and Dietetics Students.**

*Two credits. One hour of discussion and two hours of workshop per week Prerequisites: MATE3001 OR ITS EQUIVALENT.*

This course includes the presentation and application of basic knowledge and skills in the investigative process of nutrition research. It focuses on the development of critical analysis skills in the areas of study design, experimentation, application of qualitative and quantitative statistical methods organization and interpretation of data, and presentation of the final report in the context of research in foods and nutrition. This course substitutes ecdo4197

### **NUTR4198 - Research Methods in Nutrition.**

*Two credits. Two hours of lecture and one of workshop per week Prerequisites: MATE3024 OR ITS EQUIVALENT AND NUTR4041*

This course includes the presentation and application of knowledge and skills in the process of conducting research in nutrition. It focusses on the development of critical analysis skills in the areas of study design, statistical analysis, organization and presentation of data and the presentation of a final report in the context of research within the field of food and nutrition. Face to face hybrid and distance course.

### **NUTR4225 - Professional Aspects of Nutrition and Dietetics.**

*One credits. Two hours of lecture per week.*

Global approach to the practice of nutrition and dietetics, with emphasis in legal, ethical, and professional aspects. Includes test for the professional licensure examination. This course substitutes ecdo4225

### **NUTR4501 - Integrative Nutrition I: Principles of Food, Nutrition and Education.**

*One credits. One hour of lecture per week Prerequisites: NUTR4031, 4041, 4045, 4170, 4198.*

Discussion of contemporary issues in foods, nutrition, and dietetics according to current trends and health priorities. the course covers professional core knowledge, skills and competencies in food science and nutrient composition, nutrition and supporting sciences, education and communication, and research to prepare students for local and national professional examinations, which is one of the requirements to practice nutrition and dietetics profession. Face to face and hybrid course.

**NUTR4502 - Integrative Nutrition II: Food Service Management.**

*One credit. One hour of lecture per week Prerequisites: NUTR 4085*

Discussion of contemporary issues in foods, nutrition, and dietetics according to current trends and health priorities. the course covers professional core knowledge, skills, and competencies in functions of management human resources, financial management, marketing, and quality improvements; and menu planning, procurement, production, distribution, service, sanitation, safety, equipment, facility planning, and sustainability of foodservice systems to prepare students for local and national professional examinations, which is one of the requirements to practice the nutrition and dietetics profession. Face to face and hybrid

**NUTR4503 - Integrative Nutrition III: Nutrition Care for Individuals and Groups.**

*One credit. One hour of lecture per week Prerequisites: NUTR 4042, 4165, 4169, 4501.*

Discussion of contemporary issues in foods, nutrition, and dietetics according to current trends and health priorities. the course covers professional core knowledge, skills and competencies in nutrition screening and assessment of population and community needs; diagnosis planning, intervention monitoring and evaluation for nutrition care of individuals and groups to prepare students for local and national professional examinations, which is one of the requirements to practice the nutrition and dietetics profession. Face to face and hybrid course.

**NUTR5997 - Contemporary Issues in Foods and Nutrition.**

*One to Three credits. Three hours of discussion per week Prerequisites: WRITTEN PERMISSION OF THE PROFESSOR. COURSE LIMITED TO SENIORS MAJORING IN NUTRITION OR TO POST-BACCALAUREATE STUDENTS WITH A MAJOR IN NUTRITION AND DIETETICS AND/OR RELATED AREA OF STUDY.*

Discussion of diverse contemporary topics in foods and nutrition according to current trend and health priorities. Critical analysis of the scientific literature and public concerns related to each special topic. The course may be repeated up to a maximum of six credits with different contemporary topics.

**QUIM3001 - General Chemistry I.**

*4 credits. Two hours of lectures, two hours of discussion and three hours of laboratory work per week Prerequisites: MATE 3016. (APPROVED WITH A GRADE NO LESS THAN B).*

Study of the fundamentals of chemistry with emphasis on the following topics: matter and its physical and chemical properties, measures, atoms, molecules and ions, stoichiometry, types of reaction, gases, thermochemistry, periodic table, quantum theory and atomic structure, chemical bonds, and molecular geometry.

**QUIM3002 - General Chemistry II.**

*4 credits. Two hours of lecture, two hours of discussion and three hours of laboratory work per week Prerequisites: MATE 3016 (APPROVED WITH A GRADE NO LESS THAN B).*

Study of fundamentals of chemistry with emphasis on the following topics: molecule polarity, intermolecular forces, and changes in state of matter, solutions, colligative properties, kinetics and reaction mechanism, chemical equilibrium, acids, bases and salts, buffer systems, titration, curves, thermodynamics, and electrochemistry.

**QUIM3011 - Fundamentals of General Organic Chemistry and Biochemistry I.**

*Five credits. Four hours of lecture and discussion and three hours of laboratory work per week Prerequisites: MATH 3016.*

Interpretation of chemical phenomena in terms of molecular structure; study of stoichiometry, chemical equilibrium, and the most important organic functional groups. (c)

**QUIM3012 - Fundamentals of General Organic Chemistry and Biochemistry II.**

*Five credits. Four hours of lecture and discussion and three hours of laboratory work per week Prerequisites: MATH 3016.*

Interpretation of chemical phenomena in terms of molecular structure; study of stoichiometry, chemical equilibrium, and the most important organic functional groups. (c)

### **QUIM3015 - Organic Chemistry Compendium.**

*Four credits. Three hours of lecture and three of laboratory work per week Prerequisites: CHEM 3002.*

Study of the structure and reactions of carbon compounds. Compendium of the topics covered in chemistry 3031-3032.

### **QUIM3025 - Analytic Chemistry.**

*4 credits. Three hours of lecture and two periods of laboratory of three hours per week Prerequisites: QUIM 3002.*

Study of theory and methods of both qualitative and quantitative analysis using gravimetric and volumetric methods, including potentiometric titrations. Brief introduction to the spectrophotometric methods with emphasis in ultraviolet-visible region. The conference will emphasize the fundamentals chemical analysis theory, equilibrium, and the related calculations. Also, study the possible error and limitations in common analytical determinations and interpretation of obtained results.

### **QUIM3031 - Organic Chemistry I.**

*Four credits. Three hours of lecture and four of laboratory work per week Prerequisites: CHEM 3002.*

A study of the carbon compounds both aliphatic and aromatic. (c)

### **QUIM3032 - Organic Chemistry II.**

*Four credits. Three hours of lecture and four of laboratory work per week Prerequisites: CHEM 3002.*

A study of the carbon compounds both aliphatic and aromatic. (c)

### **QUIM3073 - Chemistry Mentoring I.**

*One credits. One hour of discussion per week.co-requisite: QUIM3001*

This course is designed for first-year students enrolled in the general chemistry course (quim3001). Students are exposed to exercises, problems and discussion of topics aligned to quim 3001 operational objectives. Also, the course is aimed at promoting independent study skills through work requiring information search in databases and other sources as well as appreciation for teamwork.

### **QUIM3074 - Chemistry Mentoring II.**

*One credits. One hour of discussion per week*

This course is designed for freshmen enrolled in quim 3002. Students are exposed to exercises, problems and discussion of topics aligned to quim3002 operational objectives. Also, the course is aimed at promoting independent skills through work requiring information search in databases and other sources as well as appreciation for teamwork.

### **QUIM3255 - Chemical Analysis I.**

*Four credits. Three hours of lecture and six of laboratory work per week Prerequisites: CHEM 3002.*

Chemical and instrumental methods of analysis. Acidimetry, potentiometry, spectrophotometry, and complexation formation. Ion exchange and gravimetry. Theory in electrochemistry and spectroscopy with emphasis on voltammetry and molecular and atomic absorption.

### **QUIM3451 - Organic Chemistry I.**

*Four credits. Three hours of lecture, one hour of discussion and four hours of laboratory work per week*



*Prerequisites: CHEM 3002.*

Four credits. Three hours of lecture, one hour of discussion and four hours of laboratory work per week  
Prerequisites: CHEM 3002.

### **QUIM3452 - Organic Chemistry II.**

*Four credits. Three hours of lecture, one hour of discussion and four hours of laboratory work per week*

*Prerequisites: CHEM 3002.*

Four credits. Three hours of lecture, one hour of discussion and four hours of laboratory work per week  
Prerequisites: CHEM 3002.

### **QUIM4000 - Inorganic Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEM 4041*

Study of the structure and reactions of inorganic compounds.

### **QUIM4006 - Inorganic Chemistry II.**

*Two credits. Two hours of lecture per week Prerequisites: CHEM 4000, 4041.*

Transition metal chemistry, inorganic cluster compounds, symmetry. and group theory in inorganic chemistry  
bioinorganic and nuclear chemistry.

### **QUIM4015 - Instrumental Chemical Analysis.**

*Four credits. Two hours of lecture and six of laboratory work per week Prerequisites: CHEM 3025.*

Qualitative and quantitative analytical and instrumental methods. Fundamentals related to the use of  
modern instrumentation and analysis.

### **QUIM4025 - Methods of Organic Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEM 3032.*

Study of the spectral properties of organic molecules uv, ir, nmr, mass, etc. Discussion of methods used in  
the separation and identification of organic compounds.

### **QUIM4035 - Intermediate Organic Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEM 3032.*

Basic methods for the formation of carbon-carbon bonds, the theory of molecular synthesis, and the  
concepts of pericyclic reactions.

### **QUIM4041 - Physical Chemistry I.**

*Three credits. Three hours of lecture and discussion per week.*

Theory of gases, liquids, and solids. Introduction to kinetics, thermodynamics, thermochemistry, and  
chemical equilibrium. Face to face, hybrid, and online course

### **QUIM4042 - Physical Chemistry II.**

*Three credits. Three hours of lecture per week Prerequisites: CHEM 4041.*

Study of changes of state, phase rule, solutions, and electrochemistry. Introduction to statistical mechanics  
and quantum chemistry.

### **QUIM4043 - Intermediate Laboratory I.**

*Two credits. One hour of discussion and four of laboratory work per week Prerequisites: CHEM 4041.*

Laboratory techniques of analytical and physical chemistry.

### **QUIM4044 - Intermediate Laboratory II.**

*Two credits. One hour of lecture and five of laboratory work per week Prerequisites: CHEMISTRY 4042.*  
Laboratory techniques of analytical and physical chemistry. Continuation of chemistry 4043.

**QUIM4055 - Biochemistry.**

*Three credits. Three conferences per week Prerequisites: CHEM 3032.*

Fundamental concepts of the chemistry of vital processes. A study of glucides, proteins, lipids, nucleic acids, vitamins, and enzymes.

**QUIM4061 - Chemical Bibliography I.**

*Two credits. Two hours of lecture per week.*

A general survey of the sources of chemical literature, their use and value. Bibliographical research problems are assigned to each student.

**QUIM4117 - Tutorial in Chemistry.**

*One credits. A student may take the course in two separate semesters for a maximum of two credits.*

Five tutorial hours per week in a conventional chemistry laboratory, an auto-tutorial laboratory, or the personalized system of instruction, under the constant supervision of a professor. Tutoring, supervision or experimental work, safety rules, handling reagents, preparation of equipment and materials in the audio-visual center.

**QUIM4605 - Introduction to Theoretical Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEM 3002, PHYS 3012, MATH 3062.*

Three credits. Three hours of lecture per week Prerequisites: CHEM 3002, PHYS 3012, MATH 3062.

**QUIM4865 - Biochemical Techniques.**

*Two credits. One hour of lecture and four hours of laboratory work per week Prerequisites: CHEM 4055 OR CONCURRENT WITH CHEM 4865.*

the application of chemical analysis to biological systems. Isolation and characterization of proteins, lipids and nucleic acids. Chromatographic and electrophoretic techniques used in biochemistry. Determination of parameters in enzyme kinetics.

**QUIM4999 - Undergraduate Research.**

*One to 3 credits. Maximum 6*

Introduction to research in chemistry in the laboratory or in the field. In this course students learn diverse techniques, methodologies, and the proper handling of modern instrumentation employed in current chemical research. Students learn by doing literature searches in scientific journals and by actively engaging in the development of a research project under the supervision of a professor with ample experience in any area of chemistry. Among the techniques learned in this course are synthesis of organic and inorganic compounds, characterization by different types of spectroscopy, determination of multiple chemical species using different analytical methods and instrumentation, measurement of multiple physical properties of chemical compounds and simulations and calculations of molecular structures or properties by different computational methods, etc. Each student will learn different techniques depending on the nature of the research project they develop. Students participate in weekly group meetings with other researchers to discuss and analyze experimental results and the scientific literature.

**QUIM5166 - Introduction to Polymer Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEM 3001-3002, CHEM 3031-32 OR 3451-52, CHEM 3025 OR CHEM 3255. COCURRENTLY WITH CHEM 4041.*

Classification, synthesis, and reactions of polymers; their physical and chemical characterization;

technological processing and modern applications. Laboratory experiences on the synthesis and characterization of polymers.

### **QUIM5995 - Selected Topics in Chemistry.**

*One to Three credits. One to three hours of lecture per week Prerequisites: RECOMMENDATION OF THE DIRECTOR.*

Selected topics in analytical chemistry, biochemistry, inorganic chemistry, physical chemistry, organic chemistry, polymers, industrial chemistry, environmental chemistry, and laboratory safety.

## **COLLEGE OF COMMUNICATION AND INFORMATION**

### **COMA4011 - Basic Photography.**

*3 credits.*

Introductory course in the basic techniques of digital photography and the handling of the photographic image. The function of photography as a visual communication outlet will be taught and an aesthetic and critical vision will be developed in students with readings, lectures, discussions, and the creation of photographic projects.

### **COMA4021 - Color Photography.**

*Three credits. Three hours of lecture per week Prerequisites: COMA-4011.*

The theories, techniques, and practice of color photography, emphasizing in the development and technological advances of color photography, its uses and its impact in the visual communication's field. Through this course we will contextualize this study inside the contemporary market of photography.

### **COMA4022 - Digital Photography.**

*Three credits. Three hours of lecture per week Prerequisites: COPU 4011 AND 4021.*

The techniques and theories of digital photography with practical approach of its uses in communication media.

### **COMA4038 - Film History.**

*3 credits. Three hours of lecture per week.*

Study of the cinematography in its artistic and industrial aspects, from its beginning to the present time.

### **COMA4047 - Silent Cinema (1985-1930).**

*Three credits. Three hours of lecture per week Prerequisites: COPU-4015, COPU-4017.*

Study of the cinema's development during the silent years (1985-1930). Analysis of the personalities, trends and contributions that helped the cinematography reach the seventh art status.

### **COMA4060 - Advanced Photographic Printing.**

*Three credits. Three hours of lecture per week Prerequisites: COMA-4011.*

Focus on the theory and practice of photographic printing in black and white. Through the study of photographic chemistry and papers, the student will learn how to produce the desired visual message. The course will emphasize practical work starting from a solid theoretical base.

### **COMA4079 - Independent Studies.**

*Three credits. Three*

The student and the professor determine the type of investigation to be made and the literature to be reviewed.

**COMA4100 - Practicum in Television.**

*3 credits. One hour of lecture and twelve hours of workshop per week. Prerequisites: COMA4352 AND PERMISSION OF THE DIRECTOR.*

To relate the student with a direct work experience by integrating his knowledge, skills, and attitudes, acquired during his academic life, the student will be working directly with professionals in the area of television.

**COMA4105 - Practicum.**

*3 credits. One hour of lecture and twelve hours of workshop per week Prerequisites: COMA4362 AND PERMISSION OF THE DIRECTOR*

To relate the student with a direct work experience by integrating his/her knowledge, skills and attitudes, acquired during his/her academic life. the student will be working directly with professionals.

**COMA4106 - Film Practicum.**

*3 credits. One hour of lecture and twelve hours of workshop per week Prerequisites: COMA4342 AND PERMISSION OF THE DIRECTOR*

To relate the student with a direct work experience by integrating his/her knowledge, skills and attitudes, acquired during his/her academic life. the student will be working directly with professionals in the area of film.

**COMA4116 - Independent Studies in Film.**

*Three credits. Three hours of lecture per week*

The student and the professor determine the type of investigation to be made and the literature to be reviewed in the field of film.

**COMA4135 - Independent Studies in Television.**

*Three credits. Three hours of lecture per week*

The student and the professor determine the type of investigation to be made and the literature to be reviewed in the field of television.

**COMA4187 - Theory and Film Criticism.**

*3 credits. Three hours of lecture per week.*

Analysis of industrial-artistic aspects of film. Study of the development and contribution of the cinematographic art to the society. Face to face, hybrid and online course this course has double coding with ESIN 4187.

**COMA4315 - Scripts.**

*3 credits. Three hours of lecture per week.*

This course will consider the technical and theoretical aspects of scriptwriting for radio, film, and television. Attention will be given to dramatic, comedy, musical and educational styles. the student will write script following different styles and formats. These scripts must include all technical, as well as production details. Description until summer 2017. Change in methodology to practice since august 2013

**COMA4317 - Digital Graphic Design.**

*3 credits. Three hours of workshop per week.*

Introduction to multimedia graphic design through the study and use of digital tools for creating, composing, and editing vector and pixel graphics. Th the course introduces students to the elements and principles of graphic design will examine relevant samples of digital graphic design work, and will initiate students in basic and intermediate operations in vector and pixel editors for the production of digital graphics. Face-to-face,

hybrid and online course.

**COMA4319 - Elements of Graphic Production.**

*Three credits. Three hours of lecture per week Prerequisites: COMA4317.*

Theoretical and practical aspects of graphic production for visual and print media.

**COMA4325 – Compu-graphic Production.**

*Three credits. Three hours of lecture per week Prerequisites: COMA4317 AND PERMISSION OF THE DIRECTOR.*

Integration of theoretical and practical elements of computer graphics to the production of specialized communication projects. Conceptualization, design, and production of a communication project.

**COMA4341 - Film Production I.**

*3 credits. One hour and a half of lecture, one hour and a half of discussion and three hours of workshop per week.*

This course proposes the technical, artistic and administrative preparation of a student in the field of cinema. Within the parameters of the course, the student is confronted with the experience of cinematographic production. The approach begins by establishing a direct relationship between theoretical models and the understanding of the language of the medium, so that one can see the link between this relationship and the conceptualization and construction of the cinematographic text. Face-to-face, hybrid and online course

**COMA4342 - Film Production II.**

*Three credits. One hour and a half of lecture, one hour and a half of discussion and three hours of workshop per week Prerequisites: COMA 4341.*

Advance study of the theory and practice for film production and direction face to face hybrid and online course

**COMA4351 - Television Production I.**

*Three credits. One hour and a half of lecture, one hour and a half of discussion and three hours of workshop per week Prerequisites: COPU-4017, COMA-4315.*

Study of the theory and practice for television production and direction. Face to face hybrid and online course

**COMA4352 - Television Production II.**

*Three credits. One hour and a half of lecture, one hour and a half of discussion and three hours of workshop per week Prerequisites: COMA4351.*

Advance study of the theory and practice for television production and direction. Face-to-face, hybrid and online course

**COMA4361 - Radio Production I.**

*Three credits. One hour and a half of lecture, one hour and a half of discussion and three hours of workshop per week Prerequisites: COPU4017, COMA4315.*

Study of the theory and practice for radio production and direction.

**COMA4362 - Radio Production II.**

*Three credits. Three hours of lecture and three hours of workshop per week Prerequisites: COMA-4361.*

Advanced study of the theory and practice for radio programs production and direction. This course substitutes copu4362

**COMA4810 - Radio Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: COURSES OR CONDITIONS CONSIDERED*

*PERTINENT BY THE PROFESSOR.*

Analysis and practice of the creative and production processes of the radio and of its industrial aspects.

**COMA4815 - Film Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: COURSES OR CONDITIONS CONSIDERED PERTINENT BY THE PROFESSOR.*

Analysis of industrial-artistic aspects of film. Study of the development and contribution of the cinema to society.

**COMA4817 - Television Seminar.**

*Three credits. Three hours of seminar per week Prerequisites: COURSES OR CONDITIONS CONSIDERED PERTINENT BY THE PROFESSOR.*

Analysis and practical approach of the television media in its industrial, artistic-creative and message-producer aspects.

**COMA4819 - Visual Communication Seminar.**

*3 credits. Three hours of seminar per week.*

Analysis, investigation and practice of the different kinds of visual communication and its adequateness according with the media requirements.

**COMA4991 - Seminar on Audiovisual Practices.**

*One to Three credits. One to three hours of seminar per week Prerequisites: COPU 4017 OR COPU 4355.*

Course of variable themes addressed mainly to audiovisual communication students in order to develop knowledge and practice in specific areas of media production. This course can be repeated under different themes to a maximum of three credits.

**COPU4006 - Sociology of Communication.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Study of the political, social, and manipulative functions of the media. How the media serves the political systems on the diffusion of ideology and social and economic programs. How the public opinion is affected by the media when it diffuses ideas that have effects on social and economic processes. the effects of the media on the organization and structure of social groups, their habits and behavior. Comparative analysis of the role of mass communication in countries with various political and economic structures, capitalism and socialism. (c)

**COPU4013 - Photojournalism-laboratory.**

*No credits. Two hours of laboratory work per week Prerequisites: PUCO 4011.*

The course will emphasize in the laboratory work, the development of new techniques and the practice of different theories in photography.

**COPU4014 - Basic Photography-laboratory.**

*No credits. Two hours of laboratory work per week.*

The course will emphasize in the laboratory work, where the student will have the opportunity to practice the basic elements of photography.

**COPU4017 - Introduction to Media.**

*3 credits. Three hours of lecture per week.*

Study of the evolution, organization and structure of the press, radio, cinema, and television, as well as the impact and social development of media and the new technologies.

**COPU4019 - Mass Communication and its Effects Upon Social Behavior.**

*3 credits. Three hours of lecture per week.*

The social, economic and political importance of mass media, comparing their impact with that of interpersonal communication. Analysis of the effects of this type of communication upon social conduct. Special attention will be given to the causes behind the barriers to communication that exist in different social systems.

**COPU4025 - Communication for the Dissemination of New Techniques and Ideas.**

*Three credits. Three hours of lecture per week.*

The process of communication as an agent of social change via the dissemination of new ideas and techniques. Analysis of the various phases in dissemination and the utilization of media in each.

**COPU4030 - Photography in the Publicity Process.**

*3 credits. Three hours of lecture per week Prerequisites: COPU 4022.*

A theoretical and practical approach to the study of photography for publicity purposes. Study of technical aspects of publicity photos and the esthetic judgement involved in selecting them.

**COPU4045 - Advanced Seminar in Communication.**

*Three credits. Three hours of seminar per week Prerequisites: TO HAVE APPROVED THE CORE COURSES OF THE DEGREE IN COMUNICACION,18*

Analysis and discussion of social phenomena for students on their last year, with emphasis in promoting critic media production according to different perspectives among the communication fields. These views have the purpose of exposing, considering and signifying such phenomena through creative and collaborative research. This course will be offered face-to-face, hybrid and online modalities.

**COPU4046 - Content Analysis of Motion Pictures Shown in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: PUCO 4017.*

Critical analysis of the different types of films shown in Puerto Rico since the thirties in terms of their relationship with contemporary social, political and economical ideas. Special attention will be paid to the different film genres such as the gangster film, the dramatic film, the western film, the comic film, etc. Every student must present a final paper in connection with a certain type of film in an specific period.

**COPU4050 - Photographic Portraiture.**

*Three credits. Three hours of lecture per week Prerequisites: PUCO 4011.*

This course will focus on the theory and practice of photographic portraiture and will discuss psychological, commercial, formal, and public relations portraits, among others. Lighting, backgrounds, and subject image are some of the technical aspects that will be covered. the course will emphasize practical work through exercise and assignments.

**COPU4066 - Group Dynamics.**

*Three credits. Three hours of lecture per week Prerequisites: PUCO 4018.*

Theory and practice of group dynamics. Special attention will focus on the phase of the communicative process that deals with the handling of primary and secondary groups.

**COPU4070 - Advanced Photographic Printing-laboratory.**

*No credits. Two hours of laboratory work per week Prerequisites: PUCO 4011.*

This course will focus on the theory and practice of photographic printing in black and white. Through the study of photographic chemistry and papers, the student will learn how to produce the desired visual

message. the course will emphasize practical work starting from solid theoretical base.

**COPU4080 - Photographic Portraiture-laboratory.**

*No credits. Two hours of laboratory work per week Prerequisites: PUCO 4011.*

This course will focus on the theory and practice of photographic portraiture and will discuss psychological, commercial, formal, and public relations portraits, among others. Lighting, backgrounds, and subject management are some of the technical aspects that will be touched on. the course will emphasize practical work through exercises and assignments.

**COPU4130 - Laboratory for Photography in the Publicity Process.**

*No credits. Three hours of lecture and two hours of laboratory work per week Prerequisites: PUCO 4012.*

A theoretical practical approach to the study of photography for publicity purposes. Study of technical aspects of publicity photos and the esthetics judgment involved in selecting them.

**COPU4137 - Principles of Mass Media Writing.**

*Three credits. Three hours of workshop per week.*

This course, created for undergraduate students deals with the principles of mass media writing that distinguish this type of text from the ones from other disciplines. in a workshop format it aims to train the students on basic writing skills that will allow them to communicate with linguistic correctness in the different media platforms: journalism, public relations, and advertising audiovisual, and information and communication technologies. This course includes sections of variable format face-to-face, hybrid and online modalities

**COPU4175 - Aesthetics of the Cinema.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: COPU 4038*

Study of the meaning processes, forms and cinematographic styles and its relation to judgements and categories of aesthetic value through diverse films. 13-08-02

**COPU4355 - Communication Theories.**

*3 credits. Three hours of lecture per week.*

Conferences for freshmen to study and analyze human communication's different perspectives and processes, to develop their theoretical knowledge interpersonal, organizational, new technologies, among other theoretical dimensions, will be considered, beginning with its origins to social-technological, critical and political cultural approaches. This course includes sections of variable format. Face-to-face, hybrid and online course.

**COPU4365 - Media Legislation and Deontology of Information.**

*3 credits. Three hours of lectures per week.*

Study of legal and ethical procedures related to media and information rights, including the discussion of cases related to information technologies and communication, so the professional decisions taken by our alumni will have strong legal and ethical basis. This course includes sections of variable format: face to face hybrid and online course.

**COPU4800 - Seminar in Media History.**

*3 credits. Three hours of seminar per week Prerequisites: COPU 4355 OR COPU 4017 ANALYSIS OF MASS MEDIA'S HISTORY.*

Advanced study of mass media contribution to society.



**COPU4820 - Photography Seminar.**

*3 credits. Three hours of lecture per week Prerequisites: COURSES OR CONDITIONS CONSIDERED PERTINENT BY THE PROFESSOR.*

Analysis, investigation and practice of the different forms of communication of the photographic image according with the media involved its audiences.

**COPU4995 - Communication Study Trip.**

*Three to Six credits. Two hours of lecture and 30 hours of co-curricular activities during the study trip Prerequisites: PERMISSION OF THE DIRECTOR OR PROFESSOR.*

Analysis of themes dealing with media and social communications experiences in specific countries. Includes several academic sessions as well as a trip to study directly the communication practices and processes under observation.

**COPU5001 - Political Journalism and Electoral Coverage.**

*Three credits. Three hours of workshop per week*

This course presents the history and evolution of political journalism and electoral events in Puerto Rico. The professor and invited researchers and experts will offer talks on political communication, history, processes and electoral organizations, analyzing the structure of government and political organizations in Puerto Rico and the United States. Through workshops with media collaborations, the course deals with ethical, technical and practical aspects in the journalistic coverage of elections. The students will be an active part of the learning process through the elaboration of questions, participation in workshop sessions in the classroom, practical seminars organized by media professionals and the realization of an explanatory report on the experience of the course at the end of the semester. This course is offered in the in-classroom and hybrid modalities, for undergraduate and graduate students.

**COPU5005 - Communication and Oral History.**

*Three credits. Three hours of laboratory or workshop per week.*

Introduction to the theory of first-person production and its application to communication. The different theoretical approaches to oral history, ethnographic life-histories and biographical materials will be examined, as well as its application and relative utility. A project using the method acquired during the experience will be produced. Classes will be held in a seminar fashion, discussing diverse instances and examples of first-person documents.

**INFP4001 - Journalistic Writing I.**

*3 credits. Three hours of practice per week Prerequisites: COPU4136 INFP4148*

This course will provide students with basic skills, particularly for print and internet. Besides writing news stories, students will learn to use photography and sound as informational tools. This course will be offered face-to-face, hybrid and online modalities.

**INFP4002 - Newspaper Editing II.**

*3 credits. Three hours of practice per week*

This advanced course will provide the students with multimedia skills in order to produce journalistic stories. The students will write journalistic texts and will produce photographic and video stories. This course will be offered face-to-face, hybrid and online modalities.

**INFP4010 - Sport Journalism.**

*Three credits. Three hours of lecture per week Prerequisites: COPU-4009,4016.*

Theoretical and practical course dealing with the obtention, processing and preparation of news in this

specialized field, as well as with the theory and practice in preparing a sport section. Attention will be given to reporting, and its practice in the field of sports.

### **INFP4012 - Photojournalism.**

*Three credits. Prerequisites: COMA-4022.*

The theory, history and techniques of photojournalism. Practical work in the various genres of visual journalism. the editing and design process that results in a published image.

### **INFP4016 - Introduction to Journalism.**

*Three credits. Three hours of lecture per week.*

This required course studies the history, theories, foundations and characteristics of the journalism. It analyzes the evolution of the press as a cultural and social product, and reviews the transformations that it has suffered thanks to the new and modern communication media. It also explores the distinctive features of the journalistic genres, as well as its style and language. This course will be offered face-to-face, hybrid and online modalities.

### **INFP4026 - Communication and Persuasion.**

*3 credits. Three hours of lecture per week.*

Study of the effects of communication in simple and complex societies. Emphasis will be given to the sociological and psychological theories and processes necessary to achieve changes in attitudes and to influence public opinion.

### **INFP4035 - History of Journalism in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

This course will provide the students with a historical background about the development of journalism in Puerto Rico. the course will deal with the role of the Puerto Rican press since the Spanish government until today. How the Puerto Rican journalism industry has evolved in harmony with societal changes and the demand for more national and international information. Furthermore, the course will be concerned with the effects of the Puerto Rican press on the social movement since the Spanish government.

### **INFP4036 - Design and Techniques for Multimedia Journalism.**

*3 credits. Three hours of lecture per week Prerequisites: INFP4001*

This undergraduate course will help the students to develop optimum skills in the use of programs and tools that are necessary for the design and diagramming of the journalism media, print and multimedia.

### **INFP4037 - Production and Editing of Specialized Newspaper and Magazines.**

*Three credits. One hour and a half of lecture and one hour and a half of laboratory work per week*

*Prerequisites: PUCO-4009 AND INFP-4036.*

Philosophy, news evaluation concepts and principles underlying the production and organization of specialized newspapers and magazines. The students will design and produce publications individually or in groups.

### **INFP4059 - Broadcast Journalism.**

*3 credits. One and a half hour of lecture and one and a half hour of laboratory work per week Prerequisites: INFP4001*

This course deals with radio and television news writing style and production in a multimedia context. It emphasizes the nature of these media and how it meets with the research, treatment and publishing of news information. It combines theory and practical experiences so that the students, specially the journalism students, learn first hand the process of news broadcasting. This course will be offered face-to-face, hybrid

and online modalities.

**INFP4086 - Journalism Workshop.**

*Six credits. Three hours of lecture per week Prerequisites: COPU-4009 AND INFP-4016.*

Advanced journalism workshop includes news coverage, news and editorial writing; layout techniques; writing headlines and captions; selection and use of photographic material; publication of a newspaper.

**INFP4097 - Supervised Practice in Radio Journalism.**

*Three credits. Twelve hours of practice work per week Prerequisites: COPU 4001,4009,4016,4055 AND INFP 4059.*

Supervised practice in radio stations news departments; integration of theoretical and practical skills in news production and processing.

**INFP4099 - Supervised Practice in TV Journalism.**

*Three credits. Twelve hours of supervised practice per week Prerequisites: COPU 4001,4009,4016,4017 AND INFP 4057.*

Supervised practice in tv stations news department; integration of theoretical and practical skills in news production and processing.

**INFP4108 - Practicum in Photojournalism.**

*Three credits. One hour of lecture and twelve hours of workshop per week Prerequisites: PERMISSION OF THE DIRECTOR.*

To relate the student with a direct work experience by integrating his knowledge, skills and attitudes, acquired during his academic life. the student will be working directly with professionals in the area of photojournalism.

**INFP4109 - Practicum in Journalism.**

*Three credits. One hour of lecture and twelve hours of workshop per week Prerequisites: PERMISSION OF THE DIRECTOR.*

To relate the student with a direct work experience by integrating his knowledge, skills and attitudes, acquired during his academic life. The student will be working directly with professionals in the area of journalism.

**INFP4117 - Independent Studies in Journalism.**

*Three credits. Three hours of lecture per week*

The student and the professor determine the type of investigation to be made and the literature to be reviewed in the field of journalism.

**INFP4118 - Independent Studies in Photojournalism.**

*Three credits. Three hours of lecture per week*

The student and the professor determine the type of investigation to be made and the literature to be reviewed in the field of photojournalism.

**INFP4148 - Basic Media Writing.**

*3 credits. Three hours of lecture and workshop per week Prerequisites: COPU 4136, INFP 4016.*

This workshop course aimed at undergraduate students, trains students with basic writing skills that allows them to communicate with linguistic correction in the various areas of the field of communications, particularly in the professional field. This course will be offered face-to-face, hybrid and online modalities.

**INFP4156 - Mass Media Ethics.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: COPU 4005,4007,4016,4018 OR PERMISSION OF THE DIRECTOR.*

Study of the values, principles and human attitudes that make up the moral ethics, their usage in social communications, and the methodology for the analysis of cases and decision making processes.

**INFP4185 - Information Theory.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Study of the fundamental aspects of information theory through a critical revision of communication theory through a critical revision of communication theory, mass culture, information and journalism.

**INFP4205 - Communications Seminar.**

*3 credits. Three hours of lecture per week.*

Study of special topics related with communication, that will vary every semester.

**INFP4206 - United States Foreign Policy and the Mass Media.**

*3 credits. Three hours of lecture per week.*

Study of values and ideology in electronic and newsprint and how it articulates the United States foreign policy.

**INFP4809 - Journalism.**

*3 credits. Three hours of seminar per week Prerequisites: COURSES OR CONDITIONS CONSIDERED PERTINENT BY THE PROFESSOR.*

Advanced study of journalism, practice and analysis of journalistic expressions and its relation with different audiences.

**REPU4018 - Introduction to Advertising and Public Relations.**

*Three credits. Three hours of lecture per week.*

Course designed for communication students. It offers an introduction to advertising and public relations. Conferences will be offered about the basic concepts that define these communications disciplines, its importance for modern society and different approaches for the development of campaigns. the structure organization and social function of the advertising agencies and public relations firms will be emphasized. Face-to-face, hybrid and online course.

**REPU4025 - Advertising Writing.**

*3 credits. Three hours of lecture and discussion per week Prerequisites: REPU 4018*

The study of theories and practical concepts to develop advertising writing skills used in different mass media. Face-to-face, hybrid and online course.

**REPU4027 - Online Advertising.**

*Three credits. One hour and a half of lecture, one hour and discussion and half hour of workshop per week.*

This course, based on conferences and discussion, introduces undergraduate students to online digital advertising that allows to know the ecosystem in which advertising messages are disseminated. the concept of online digital advertising is effective, the types of advertising messages used online, models for purchasing spaces for advertising, and the use of analytical tools that offer data on the effectiveness of this type of advertising. This course will be offered in face-to-face, hybrid and online modalities.

**REPU4065 - Introduction to Public Relations.**

*3 credits. Three hours of lecture per week.*

Studies the use of public relations in government and in industry. Analyzes the possible problems that arise for the public relations man within organizations and with the general public. Discusses the functions of the public relations person in his interaction with mass media. Aspects of ethics and regulations will be covered.

**REPU4067 - Oral Communication.**

*Three credits. Three hours of lecture per week.*

The planning and development of public speaking for various presentation formats, such as conferences, speeches, panels, and as leader of a group. Visual presentation is emphasized.

**REPU4069 - Introduction to Advertising.**

*3 credits. Three hours of lecture per week.*

Studies the basic elements, structure and organization of advertising agencies as well as their functions within mass media. Deals with designing an advertising campaign with the regulations this entails.

**REPU4076 - Designing Producing Advertisements for Radio, Tv and Print Media.**

*3 credits. Three hours of lecture per week Prerequisites: COPU 4148, REPU 4018.*

Theory and practice in the production of commercial, educational and political advertisements for radio, tv and the print media. Analysis and study of press and broadcast advertising.

**REPU4087 - Planning and Production in Public Relations.**

*4 credits. Four hours of lecture per week Prerequisites: REPU 4165, REPU 4147 AND ESIN 4077.*

Provides the student with theory and practice knowledge of specialized public relations themes. Emphasis on the organization of public relations departments.

**REPU4107 - Practicum in Public Relations.**

*Three credits. One hour of lecture and twelve hours of workshop per week Prerequisites: PERMISSION OF THE DIRECTOR.*

To relate the student with a direct work experience by integrating his knowledge, skills and attitudes, acquired during his academic life. the student will be working directly with professionals in the area of public relations.

**REPU4110 - Practicum in Advertising.**

*3 credits. One hour of lecture and twelve hours of workshop per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The course seeks to relate the student with an experience of work in the field of advertising to integrate the knowledge, skills, and activities acquired during his academic life. the student will work directly with professionals in the area of advertising. the professional experience that comes from this practice helps them to prepare their work portfolio, while offering them the opportunity to closely observe the practice of their profession.

**REPU4115 - Independent Studies in Advertising.**

*Three credits. Three hours of lecture per week*

The student and the professor determine the type of investigation to be made and the literature to be reviewed in the field of advertising.

**REPU4119 - Independent Studies in Public Relations.**

*Three credits. Three hours of lecture per week*

The student and the professor determine the type of investigation to be made and the literature to be

reviewed in the field of public relations.

**REPU4145 - Public Relations Research.**

*Three credits. Three hours of lecture per week Prerequisites: REPU-4018,4077 AND REPU-4065.*

The value and application of research techniques in public relations programs. the student will compare the research done in the United States, Latin America and Puerto Rico.

**REPU4147 - Public Relations Writing.**

*3 credits. Three hours of lecture per week Prerequisites: COPU 4148 REPU 4018.*

Knowledge and practice of research techniques, the development of objectives, and writing style that apply to the different writing and oral public relations communications. Face-to-face, hybrid and online course.

**REPU4149 - Integrated Communications for Healthcare.**

*Three credits. One hour and a half lecture, one hour of discussion and half hour of workshop per week.*

This course for undergraduate students focuses on the study of disease prevention communication processes aimed at patients of for profit and non- profit organizations that provides health services. its members and the communication needs they have with patients are describe. People's attitudes toward illness and the unhealthy behaviors in which they participate are compared. Integrated communications for disease prevention are used and examples of disease prevention campaigns are examined. A comparative analysis of theories of health behavior and how they can be applied when creating integrated communication strategies to achieve changes in attitudes and unhealthy behaviors of people is done. These theories and information on consumer attitudes and behaviors are used to design integrated communications strategies. This course will be offered in face-to-face, hybrid and online modalities.

**REPU4150 - Health Public Relations in the 21st Century.**

*Three credits. Three hours of seminar per week Prerequisites: REPU 4147, PUBLIC RELATIONS WRITING.*

Undergraduate students will study and discuss the role of public relations in the health field, and the required approaches according to the diverse audiences it serves. Also, the use social and mobile media will be put this context considering the importance of ethics in the practice of public relations for health. This course be offered in face-to-face, hybrid and online modalities.

**REPU4155 - Media Planning.**

*3 credits. Three hours of lecture per week Prerequisites: REPU 4018, REPU 4076.*

The student will learn how to identify, evaluate and analyze the process of media planning. He will be able to develop an effective media planning.

**REPU4157 - Planning and Production in Advertising.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: REPU 4155, REPU 4166, ESIN 4077.*

Study of the theoretical concepts needed for the development, organization and management of an advertising agency, the strategies needed for its daily operations and how to acquire and retain clients.

**REPU4165 - Public Relations Campaign.**

*3 credits. Three hours of lecture per week Prerequisites: REPU 4018, REPU 4147, ESIN 4077.*

The study of the research, planning, communication and evaluation process of a public relations campaign. the student will develop a formal presentation of a public relations campaign for a specific client.

**REPU4166 - Advertisement Campaign.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: REPU*

4018, REPU 4155, ESIN 4077, REPU 4076.

Study of the components of an advertising campaign in a global economy analysis of consumer behavior within markets. Study of new technologies for information gathering during advertising campaign. Face-to-face, hybrid and online course.

**REPU4805 - Advertising Seminar.**

*3 credits. Three hours of seminar per week.*

Advanced study of advertising from an academic-professional perspective. Analysis of advertising in contemporary social, economic and cultural development.

**REPU4807 - Seminar in Public Relations.**

*3 credits. Three hours of lecture per week Prerequisites: REPU 4018.*

Advanced study of public relations. Analysis and practice of different aspects of public relation during the communication process between the enterprise and its audience.

## **COLLEGE OF SOCIAL SCIENCES**

**ANTR3001 - Introduction to Anthropology.**

*3 credits. Prerequisites: CISO 3121-3122*

Panoramic view of the discipline, integrating sociocultural anthropology, archaeology, linguistic anthropology, and physical anthropology. Emphasis on the principal methods of anthropological research and on central issues such as the origins of human beings, their biological diversity, the development of language, and cultural variations.

**ANTR3006 - Sociocultural Anthropology.**

*3 credits. Three hours of lecture per week.*

Basic principles, approaches, and methods of sociocultural anthropology. Critical analysis of the anthropological concept of culture. Discussion of topics of interest to contemporary anthropology, such as cultural diversity, ethnic identity, race relations, and the comparative analysis of the state. This course will be offered face-to-face, hybrid and online modalities.

**ANTR3025 - Principles of Archaeology.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122*

Key issues in the development of archaeology and its areas of specialization, as well as the principal theoretical debates in the contemporary era. Discussion of basic techniques and research approaches in modern archaeology. This course will be offered face-to-face, hybrid and online modalities.

**ANTR3035 - Cultural Diversity in the Caribbean.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122*

Analysis of Caribbean socioeconomic formations, with particular attention to their cultural manifestations, such as language, music, and religion. Discussion of topics such as the rise of Afro-American culture, the legacy of the slave plantation, and ethnic and race relations.

**ANTR3045 - Urban Ecology.**

*3 credits. Prerequisites: CISO3121-3122*

Study of urban settlements as the product of the interrelation of cultural and natural processes, as well as changes in the distribution of space in contemporary cities. Critical perspective on the main problems of urban planning.

**ANTR3046 - Human Evolution.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122*

The study of the origins, development, and variation of the human species in a biological context. Comparison of the fossil and molecular evidence to understand the first human societies. Discussion of the principal debates about human diversity. (c) this course will be offered face-to-face, hybrid and online modalities.

**ANTR3275 - History of Anthropological Thought.**

*Three credits. One hour of lecture and two of discussion per week.*

Discussion of the development of anthropology, from evolutionism to post modernism. Main schools of thought and fundamental debates in the history of the discipline. Emphasis on social and cultural anthropology.

**ANTR4001 - Anthropology and the Study of Religion.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122*

Definition of the anthropological concept of religion. Discussion of fundamental theories about the origins and evolution of so-called primitive religions. Comparative study of the relations among religion, social structure, cultural complexity, social changes, the distribution of power, and worldviews.

**ANTR4002 - Demographic Anthropology.**

*3 credits. Three hours of lecture per week Prerequisites: ANTR3001,3006,3046 OR CISO 3007*

Comparative study of human populations in western and non-western societies. Discussion of biocultural processes of human populations, demographic expansion, cultural strategies regarding fertility, the use of natural resources, and the impact of such strategies. Emphasis on the ethnographic method to collect population data.

**ANTR4008 - Linguistic Anthropology.**

*Three credits. Three hours of lecture per week Prerequisites: CISO3121, CISO3122 ANTR3006*

Provides an introduction to various central themes, theoretical perspectives and methodologies of linguistic anthropology, a field dedicated to the ethnographic study of languages as social practice and as fundamental element of culture. In addition to offering an overview of research in the field, students learn how language serves as a medium of communication and social action in human societies. We will consider how language is used to constitute and reproduce social identities and categories like gender, race, and nationality. We will also compare distinctive linguistic practices and norms in different societies. With this knowledge, students will be prepared to analyze the role of language in social, economics, and political life in Puerto Rico and beyond.

**ANTR4010 - Gender Studies in Anthropology and Archaeology.**

*3 credits. Three hours of discussion and field work per week Prerequisites: CISO3121-3122*

Study of various cultural formations and theoretical perspectives regarding gender relations. Discussion of the origins of the sexual division of labor, the relation between gender and culture, and changes in women's position in contemporary societies.

**ANTR4018 - Seminar: Bioarcheology.**

*Three credits.*

Scientific study of human remains from a prehistoric or historic archaeological context, that allow to perform research and interpretations of biological social, and ecological events generated during the life of the human being from a biocultural perspective. This seminar has as main goal that students carry out a critical discussion of theoretical, methodological and technical foundations developed in the area of bioarcheology



necessary to reconstruct the social and biological dynamics of ancient human populations. the seminar is designed to provide students with theoretical knowledge and practical need to discuss, select and develop research of specific topics addressed in the seminar on the basis of a multidisciplinary approach and biocultural perspective. Among the topics that are discussed in the seminar include: mortuary or funeral treatment, the presence of intentional body modification, demographic and ecological aspects, as well as, conditions of health, nutrition, physical activity and interpersonal conflict, some which it can be inferred from an analysis of the bones and teeth.

#### **ANTR4019 - Seminar: Forensic Anthropology.**

*Three credits. Three hours of seminar per week.*

Scientific study of human remains from a medicolegal context. This seminar has as main goal to realize in students a critical discussion of the theoretical discussion of the methodological and technical fundamentals developed in the area of forensic anthropology, applied both at the crime scene and the identification process based on the scientific analysis of the human skeleton. the seminar is designed to provide a theoretical experience and practice that let students discuss, select and develop specific research topics in the area of forensic anthropology related to the recovery of human remains at the crime scene, forensic taphonomy, estimation of age at the time of death, sex determination affiliation of ancestry, estimation of stature, methods to establish a positive identification, estimation of postmortem interval, bone trauma, ethical aspects and testifying as expert witness in the court.

#### **ANTR4020 - Seminar: human Paleopathology.**

*Three credits. Three hours of seminar per week.*

Scientific study of diseases in the ancient human populations. This seminar has as main goal the students perform a critical discussion of the theoretical methodological and technical foundations developed in the field of human paleontology important to establish the health conditions and diseases of ancient human populations based on the analysis of human skeletal remains, mummified bodies, artistic representations and ethnohistorical accounts. the seminar is designed to provide students with theoretical knowledge and practical need to discuss, select and develop a research on specific topics addressed in the seminar from a multidisciplinary approach and biocultural perspective.

#### **ANTR4035 - the Anthropology of Health.**

*Three credits. Three hours of lecture per week.*

Comparative analysis of cultural definitions of health and illness. Discussion of the methodology of socio historical epidemiology and the diversity of ethnomedical systems. Analysis of the historical development of the medical system with emphasis on its power structure.

#### **ANTR4046 - Anthropological Method and Theory.**

*3 credits. Three hours of lecture per week*

Analysis and discussion of theoretical models and methodological conceptions in the discipline, emphasizing contemporary sociocultural anthropology.

#### **ANTR4065 - Anthropological Linguistics.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122*

Basic principles and methods of anthropological research about language in its sociocultural context. Analysis of the relation among language, power, schooling, identities, nationality, discrimination, and stereotypes.

#### **ANTR4086 - Archaeology and Public Policy.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121-3122, ANTR 3025.*

Discussion of the antecedents of a public policy about archaeological remains in Europe in the 19th century

and its extension to the other parts of the world. Analysis of concepts such as cultural patrimony, patrimony of humanity, and national patrimony in the legal and academic framework of the 20th century. Analysis of the role of international organizations and national governments institutions. Course face-to-face, hybrid and online modalities.

**ANTR4087 - Caribbean Archaeology.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121-3122 ANTR3025*

Analysis of the indigenous cultures of the region, emphasizing Puerto Rico historical development of archaeological practice from the Spanish chronicles to modern schools.

**ANTR4096 - Analysis of Archaeological Materials.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122, ANTR3025*

Discussion of the principal approaches and classification systems of archaeological artifacts. Introduction to typological classification; and illustration of artifacts; the inferential process and basic quantitative analysis. Course face-to-face, hybrid and online modalities.

**ANTR4097 - Field Archaeology.**

*6 credits. Three hours of lecture per week and nine of workshop per week Prerequisites: PERMISSION OF THE PROFESSOR.CISO3121-22 ANTR3025.*

Practical application of basic knowledge in archaeological research. Research design, field, and laboratory techniques.

**ANTR4098 - Anthropology Seminar.**

*3 credits. Three hours of seminar per week Prerequisites: CISO 3121-3122, ANTR3006, ANTR3025, ANTR3016, ANTR4046.*

Reflection on the student's formative experiences in the field of anthropology. Integration of knowledge through the presentation of a research project in one of the discipline's areas of specialization.

**ANTR4099 - Mesoamerican Archaeology.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122.*

Overview of the region's pre-Hispanic history. Critical analysis of the concept of "cultural areas" and revision of the nomenclature referring to periods and chronology. Development of state societies and peripheral indigenous groups in regional histories.

**ANTR4135 - Anthropology of Social Power.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121-CISO 3122.*

Comparative analysis of power and resistance as forms of domination and subordination in various social and cultural contexts. Discussion of preindustrial political systems, the emergence of the state, the role of ritual in politics, colonialism, national identities, gender and power, and globalization.

**ANTR4145 - the andean World.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122*

Overview of andean cultures during pre-Hispanic, colonial, and republican times, emphasizing indigenous cultures. Analysis of the ethnic-national question, indigenist, cultural diversity, and forms of indigenous organization.

**ANTR4156 - Ecology, Culture, and Society.**

*3 credits. Three hours of lecture per week*

Study of the effects of the environment on the cultural development of various human populations, both in

their biological and cultural aspects. Discussion of environmental stressors, the availability of resources, the effects of climate, and cultural responses to ensure the survival of human settlements.

**ANTR4165 - Mesoamerican Ethnology.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122.*

Study of the region from its pre-Hispanic antecedents. Origins and development of the category "Mesoamerica". Discussion of key issues such as indigenous language, oral tradition, mythology, science, medicine, and music.

**ANTR4186 - Topics in Physical Anthropology.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122*

Study of a particular issue within this field of specialization. the course may be taken up to two times (six credits)

**ANTR4195 - Independent Study in Anthropology.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121, CISO3122*

Design and execution of an individual research under supervision of a faculty member. This course may be repeated up to two times (six credits).

**ANTR4215 - Cross-cultural Psychiatry: Culture, Madness and Power.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121, CISO3122*

Analysis of the relation among culture, social structure, health, and mental health. Emphasis on theoretical and methodological debates on cross-cultural psychiatry; the comparative study of ethno-psychiatric systems; and the historical development of the mental hospital. Discussion of response to the professional and institutional crisis of mental health services.

**ANTR4216 - Ethnography and Field Work.**

*3 credits. Prerequisites: ANTR 3006 ANTR4046*

the course discusses the epistemological condition of ethnography and fieldwork in social anthropology and teaches the basic techniques of ethnographic investigation through seminars in the classroom and training sessions in the practices of fieldwork.

**ANTR4225 - Anthropology of Cities.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121, CISO 3122.*

Study of the urban phenomenon from an anthropological perspective, including the origins and evolution of cities, and the theoretical frameworks and research strategies to study urban settlements. Discussion of basic of urban living, such as poverty, Immigration, racial and ethnic segregation, suburbanization, and the urban informal sector. New description since 1st semester 2007

**ANTR4227 - Latino Cultures in the United States.**

*3 credits. Three hours of lecture and discussion per week Prerequisites: CISO3121-3122*

Analysis of the historical origins and contemporary situation of populations of Latin American origin in the United States. Emphasis on the construction and transformation of national identities. Discussion of the similarities and differences among the main Latino groups: Mexicans, Puerto Ricans, Cubans, and Dominicans. Course face-to-face, hybrid and online modalities.

**ANTR4246 - Archaeological Theories.**

*Three credits. Three hours of seminar per week Prerequisites: ANTR3025*

the student will explore the development of archaeological theory, the theoretical debates, and ways in

which archaeologists make inferences regarding human behavior. the principal interpretative frameworks will be studied starting with a general vision of the principal debates within the discipline during the 20th century: cultural history, processualism and post-processualism. Also explored will be the ways in which archaeologists make use of analogy, middle range theory, symbolism and social significance, social and cultural evolution cognitive archaeology, feminist critique, the theory of practice, and postcolonialism the discussion will be geared towards the principal paradigms that discipline is facing in the 21st century, resulting from modern schools of thought and the most relevant approaches of contemporary archaeologies.

### **ANTR4255 - the Urban Experience: Metropolitan San Juan.**

*3 credits. Three hours of lecture per week Prerequisites: COSI3121, CISO3122*

Historical and ethnographic analysis of the formation and growth of the metropolitan area of San Juan, Puerto Rico. Detailed study of the main patterns of urban settlement, such as slums, public housing projects, and suburban residential areas.

### **ANTR4265 - Topics in Social/cultural Anthropology.**

*3 credits. Three hours of discussion and field work per week Prerequisites: CISO3121, CISO3122*

Study of a specific topic within this field of specialization, ranging from theoretical to methodological to geographic aspects. the course may be repeated up to two times (six credits).

### **ANTR4295 - Economic Anthropology.**

*Three credits. Three hours of lecture per week Prerequisites: CISO3121 CISO3122, ANTRO3006*

Economic anthropology is a subfield rooted in a central debate oriented to acknowledge the diversity of economic logics and questioning the validity of formal economic science principles to understand and explain societies without market economies. Its aim is to explain the variability of economic systems. It proposes to identify general and particular processes within different economic systems through the analysis of the relations of production, distribution systems. It proposes to identify general and particular processes within different economic systems through the analysis of the relations of the relations, distribution and consumption, and the different processes of value creation. It introduces the classic debate between formalism and substantivism the debate that changes the way of understanding the principle of economic reproduction among different societies. It proposes to understand as well as the economic transformations within capitalism and particular shifts occurred in neo-liberal era, as financialization, changing labor markets, and those novel propositions of alternative ways of social reproduction within/against capitalism.

### **ANTR4305 - Topics in Archaeology.**

*3 credits. Three hours of lecture per week.*

Study of a specific topic within this field of specialization, ranging from theoretical to methodological or geographical aspects. the course may be repeated up to two times (six credits).

### **ANTR4310 - Environmental Archaeology.**

*Three credits. Three hours of seminar per week Prerequisites: ANTR3025 ANTR 4096*

Human area integral part of the environment, adapting to and modifying our surroundings, often leaving material evidence as a result. A deeper understanding of past human societies requires their consideration within their environmental context through the application of multidisciplinary theories and methods to reconstruct ancient environments. An introduction to the main methods used to study the relationship between people and their environments will be presented. the student will acquire towards basic competences on the acquisition and interpretation of paleo environmental data, and the understanding of important concepts from ecology, sedimentology, climatology and other disciplines. This knowledge will serve as a tool to study the effects of human activity over natural processes, including over exploitation and

alterations to biodiversity; the meanings of sustainability and vulnerability, and the effects of climate and environmental change.

**ANTR4316 - Archaeology Climate Change.**

*Three credits. Three hours of seminar per week*

The connection between climate and society is complex because they operate at different scales, and human decisions are filtered by social buffers- including social memory, risk perception and cultural priorities. Therefore, as social scientists, we need to understand the mechanics behind climate, change, as well as the anthropological theory and archaeological evidence of human response in the past. This course will provide a deep-time perspective to climate change-from our ancient evolutionary ancestors to the present-emphasizing on the potential contributions of archaeology to the identification of solutions.

**ANTR4325 - Archaeology of Domesticity in the Caribbean.**

*Three credits. Three hours of seminar per week Prerequisites: ANTR3025*

The archaeology of domesticity will be studied with an overview of colonial archaeology in Latin America and the Caribbean in order to understand lines of research that define aspects of daily life and domesticity. to this effect, variables used to articulate what comprises domesticity will be explored by looking specifically at the triad: house/home, family, and women. Multidisciplinary documentary sources that can be used in the Caribbean to define domesticity will be identified, also the type of archaeological evidence used to construct interpretations about domesticity, including spatial distribution and chores will be discussed along with its scope and limitations. the students will achieve a holistic view of what comprises the archaeology of domesticity using examples from the Caribbean.

**CIPO3006 - Introduction to Comparative Politics.**

*Three credits. Two hours lecture and one hour discussion per week.*

Using a comparative perspective, the course focuses on the study of the factors that lead to differences and similarities between political systems, political cultures, governmental institutions, and public policy processes in countries or regions. the comparative method provides a conceptual and methodological framework to explain differences and similarities between political structures and processes. Three guiding questions are raised: 1) what is the study of comparative politics?; 2) why and how the study of politics is approached from a comparative perspective? ; 3) what are the research topics and themes in the study of comparative politics?. This course will be offered face-to-face, hybrid and online modalities.

**CIPO3011 - Principles and Problems of Political Science.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**CIPO3015 - Principles and Problems of Political Science Majors.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Study of the fundamental concepts of the various political science subfields. its format is oriented to political science as a discipline of major. 19-08-96

**CIPO3025 - Political Systems of the United States.**

*Three credits. Three hours of lecture per week.*

A study of the historical background of the framing of the American constitution and the political theory on which the American system of government is based. An analysis of the structure of that government at the national level and the particular style of its political process with emphasis on separation of powers, federalism and the functions of interest group and political parties. (c) this course will be offered face-to-face, hybrid and online modalities.

**CIPO3035 - Political System of Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Historical and analytical survey of the government in Puerto Rico since 1898 up to the present. Governmental institutions developed during American rule 1898-1952; the constitution of the commonwealth of Puerto Rico; the political process in Puerto Rico; the legislature; the executive; the judiciary; local governments, and relations between Puerto Rico and the United States. (c) face to face, hybrid and online course

**CIPO3045 - International Organizations.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

An analysis study of contemporary international institutions, with special emphasis on the concert of Europe, the league of nations and the United Nations organizations. Face-to-face, hybrid and online course

**CIPO3055 - the Legislative Process.**

*Three credits. Three hours of lecture per week Prerequisites: FOR III, AND IV YEAR STUDENTS.*

An analysis of the legislative process, with special reference to the United States and Puerto Rico. the structure of the legislative branch, its composition, and functions as well as its relations with other branches of the government are examined. Particular attention is given to the role and influence of political parties and pressure groups on legislation.

**CIPO3085 - Political Sociology.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011 AND SOCI 3245.*

An analysis of the relationship between the political and the social systems. Emphasis is given to a consideration of the degree of autonomy which the political system has within the social process.

**CIPO3095 - Comparative Municipal Systems.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Principles and problems of municipal government with special attention to municipal in Puerto Rico, its rights and fundamental problems faced.

**CIPO3105 - Politics of European Countries.**

*3 credits. Three hours of lecture per week.*

Study of politics and governments of countries of Europe. the course examines institutions, processes, relations, as well as the political and economic problems of the cases under review, taking into account its historical development and social conditions. It also analyzes the scope and limitations of regional economic and political integration. the course combines lecture with group discussion. It covers topics of interest to political sciences students in their third year of undergraduate studies, particularly for students of the area of emphasis of comparative politics and political systems, and of international relations. Face-to-face, hybrid and online course

**CIPO3125 - History of Diplomacy.**

*Three credits. Three hours of lecture per week.*

The history of the diplomatic method from the renaissance to the present. An examination of the usage of that method during the major international events covered within the period, evaluating its effectiveness and shortcomings. (c) this course was reactivated in January 2001.

**CIPO3135 - Rule of Law, Government, Management and Public Policy.**

*3 credits. Three hours of lecture per week.*

Studies the origins and importance of constitutional government, basic concepts about public administration, the constitutional and legal bases of the government in Puerto Rico, and problems related to the determination and implementation of public policies in a democratic political system. It is mainly aimed as a core course for the area of emphasis of government, law, and public policy, and provides a relevant and adequate basis for students interested in graduate studies those areas and in public administration. Its goals are achieved by combining conference and presentations by the professor and by students, class discussions about assigned readings and opportunities for teamwork research on a topic related to public policy in Puerto Rico. Mainly offered, but not limited, to students of the B. A. in political science.

**CIPO3145 - Greco Roman Political Theory.**

*Three credits. Three hours of lecture per week.*

Systematic study of the political theory of the Greco-Roman world studied through the fundamental writings of the representative thinkers of that time.

**CIPO3155 - Medieval Christian Political Theory.**

*Three credits. Three hours of lecture per week.*

Systematic study of medieval Christian political theory as presented in writings of the representative thinkers of that period. Course face-to-face, hybrid and online modalities.

**CIPO3156 - Classical and Medieval Political Thought.**

*Three credits. Three hours of lecture per week.*

Systematic study of classical and medieval political theory by reference to the representative thinkers of the period. (c) course can be offered face to face, hybrid or online.

**CIPO3165 - Modern Political Theory-Machiavelli to the French Revolution.**

*Three credits. Three hours of lecture per week.*

Systematic study of political theory from the Italian renaissance through the French revolution as presented in the writings of representative thinkers of that period. (c) course can be offered face to face, hybrid or online.

**CIPO3195 - Ethics from A Global Perspective.**

*Three credits. Three hours of lecture per week.*

Ethical analysis applied to social, environmental and economic problems with global repercussions whose solution demand concerted efforts of groups and individuals. Possible ethical solutions in the analysis of the responsibilities of citizens of the developed countries will be identified.

**CIPO4005 - Constitutional Law of the United States.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

A study of the constitutional system of the United States, through the analysis of supreme court decisions and other basic materials. Recent decisions are emphasized. Face to face, hybrid and online course

**CIPO4025 - Public Opinion and Propaganda.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121-3122.*

Examines the nature of public opinion, the psychological and social factors contributing to its formation and development, how is public opinion communicated and measured, and the influence of public opinion upon public action. Also deals with propaganda and advertising, and other ways of molding public opinion, and with techniques of mass persuasion. Its main objective is to enable students to understand these processes and their importance in democratic societies. It offered as a discussion and research seminar with a comparative focus. Its learning objectives are attained through a combination of presentations by the

professor, class discussions and the conduction of teamwork research although mainly aimed at students of the b. A. in political science, it may be taken by students with other majors interested in learning about public opinion and propaganda.

**CIPO4035 - Political Parties.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Study of the historical background leading to the origin of political parties; their sociological characteristics, forms of organization and their relationship to electoral methods, public opinion and the political systems as whole. Emphasis on the most relevant general theory about those aspects, applying it to the concrete institutional experiences of the United States and Puerto Rico. Face-to-face, hybrid and online course

**CIPO4065 - Public International Law.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Survey of laws that rule the relations among countries, theories, principles, positive norms. (c)

**CIPO4085 - Unites States Foreign Policy.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

A study of basic problems of the United States in its international relations, the method of formulating foreign policies and the policies followed dealing with the various regions of the world and with international organizations. Face-to-face, hybrid and online course

**CIPO4086 - Russia's Foreign Policy.**

*3 credits. Three hours of lecture per week Prerequisites: CIS3121-3122*

Study of Russia's foreign policy, its changes and continuities, since the collapse of the Soviet Union (1989-92) and the end of the cold war, to the pre- sent. the course applies an interpretative-historical approach that combines the use of conference sessions, group discussion, and individual study and re- search. the course is intended primarily for students in their fourth year of undergraduate studies, particularly for students of the area of emphasis of international relations.

**CIPO4095 - Political Systems of the Caribbean.**

*Three credits. Three hours of lecture per week.*

Constitutional, political, and government development and practices in the hands of the Caribbean basin, including the west indies, Mexico, central America, Colombia, and Venezuela.

**CIPO4105 - Politics of Latin America.**

*3 credits. Three hours of lecture per week.*

Study of political change and the governments of Latin America. the course analyzes elements of the political dynamics and government of countries of the region their relation to social and economic change, and to the international context. the course applies a comparative approach that combines theoretical analysis with the study of specific experiences in conference sessions, group discussion, and individual study and research. This course will be offered face-to-face, hybrid and online modalities.

**CIPO4106 - the United States Congress.**

*Three credits. Three hours of seminar per week Prerequisites: CIPO 3025*

A profound and detailed overview of the United States government's legislative branch including topics such as its constitutional nature and functions, structure, and the internal operation of such institution. Main theories to try to explain and predict the behavior of congress as an institution and congress members as actors who want to maximize the chances of their reelection, to acquire power, and to affect public policy decisions. 14-08-2000



**CIPO4110 - Seminar Public Policies in Latin America.**

*Three credits. Prerequisites: CISO3121-3122.*

Study of public policies in countries of Latin America in recent years with an emphasis on social development policies such as education, health, programs against poverty, social security and pensions, and housing. The seminar examines the social context and political, ideological and institutional factors that affect processes of formulation and implementation of public policies in countries of the region, and the role of the state. It is recommended for junior and senior level students from the areas of emphasis comparative politics and political systems, and government, law, and public policy.

**CIPO4115 - International Relations of Latin America and the Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011 AND CONSENT OF THE INSTRUCTOR.*

Survey of the evolution and present status of the relations of Latin American countries with each other and with Anglo America and the Caribbean. (c)

**CIPO4135 - Latin American Political Thought.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

the major schools of political thought in twentieth century Latin America. Analysis of selected authors representing the Mexican revolution, Pirismo, Peronismo and other contemporary movements such as the democratic left, Fidelismo and communism, the right-wing oligarchy and the role of the army in politics.

**CIPO4136 - Game Theory in International Relations.**

*Three credits. Three hours of lecture per week Prerequisites: CISO3121 CISO3122*

We will study the use of game theory models in the theoretical elaboration and the study of international relations. We will begin with an introduction to the concepts of science and game theory. We will study the application of these models to the economy, political science, and international relations in particular. Students will analyze the concepts and propositions of the neorealist and neoliberal schools and their derivatives. For this analysis we will use as analytical instruments, models derived from game theory. Also we will research other model applications such as macro-strategic, institutionalization

**CIPO4137 - Gender and International Politics.**

*Three credits. Three hours of lecture per week*

The study of international politics tends to be gender-neutral. However, it has been observed that the processes and international events have causes and consequences that differ based on gender. This course questions the analysis of international relations from a gender perspective. Introduces critical theoretical frameworks to the existing paradigms such as realism and liberalism this allows us to incorporate gender analysis in the study of international politics. It will give special emphasis to gender issues within the context of international conflict, security, economic development, nationalism and globalization. The course is offered to junior and senior level students.

**CIPO4138 - Popular Republic of China's Foreign Policies.**

*Three credits. Three hours of lecture per week Prerequisites: CISO3121-3122.*

This course seeks to understand the contemporary foreign policy of the popular republic of China by studying the historical and ideological context it seeks to create an analytical framework regarding the Chinese political and economic interests, as well as China's military and diplomatic strategies. This course will give special emphasis on the relations between China and its regional Asian neighbors, United States of America and other developing countries. The course is offered to junior and senior level students.

**CIPO4175 - Civil Rights in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Study of the origin, content and evolution of civil liberties with special emphasis on the magna carta, the constitution of the United States, the universal declaration of human rights of the United Nations, and the constitution of the commonwealth of Puerto Rico. (c) this course will be offered face-to-face, hybrid and online modalities.

### **CIPO4185 - Contemporary Political Theory - XIX and XX Centuries.**

*Three credits. Three hours of lecture per week.*

Systematic study of the political theory of the nineteenth and twentieth centuries studied through the fundamental writings of the representative thinkers of that period. (c) this course will be offered face-to-face, hybrid and online modalities.

### **CIPO4215 - International Theory.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE PROFESSOR.*

Study of the diverse theories of relations between nations, with major emphasis on the period since the renaissance. the main traditions of thought in this field will be analyzed and the subject will be treated comparatively rather than chronologically. Face-to-face, hybrid and online course

### **CIPO4216 - Politics Race and Anthropology.**

*Three credits. Three hours of lecture per week Prerequisites: CISO3121, CISO3122*

Relations between politics, race and anthropology will be studied from an interdisciplinary perspective. Using digital and archival resources, it will examine the racial politics under the German occupation of France (1939-1945) and the anthropological contributions which played a central role in the over-coming of racial Scientifics. Furthermore, it will examine the consequences of the holocaust for the development of racial debates during this time and the politics that emerged as a consequence of these debates. This course is intended for third year students and beyond.

### **CIPO4225 - Problems of Hispanic America.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Critical analysis of the principal political, economic, social and cultural problems of the countries undergoing economic development, with special reference to Central America.

### **CIPO4235 - American Political Theory.**

*Three credits. Three hours of lecture per week.*

The main currents of American political thought, relating these to the main currents of European thought and the socioeconomic, geographic, and political factors which gave American thinking a distinct character of its own.

### **CIPO4238 - Latino Politics in the United States.**

*Three credits. Three hours of lecture per week.*

Analyzes the role that Latinos or Hispanic Americans play within the U. S. Political system. Studies the main problems, methodology, theories, and issues that characterize Latino political behavior in the United States. Includes a discussion of the formation of these groups into an ethnic group within American society, their differences and similarities, and the elements that influence their political behavior. 21-01-97

### **CIPO4245 - Political Parties in Great Britain.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Analysis of the constitutional and legal framework of British parties; the historical and cultural background of their present situation; their internal organization and structure; their philosophies and programs; and

discussion of the problems that they exhibit with particular reference to leadership in the modern democratic state.

**CIPO4255 - Political Systems of the New Nations.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011 AND APPROVAL OF ADVISOR.*

Study of the problem of government and politics in the emerging countries of Africa and Asia. Attention will be focused upon the organizational and associational difference of social and traditional factors as race, caste, and tribalism. Political systems, and the validity of current concepts about the western and non-western political process will be examined.

**CIPO4265 - Theory of the State.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Study of the political concept of the state and its relations with society, economics, and law. Face-to-face, hybrid and online course

**CIPO4275 - Modern World Politics.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Study of the modern world politics. Power as the catalytic force ruling politics among nations. Fundamentals of world politics, techniques, and instruments; geography and world politics; the problem of war and peace. Face-to-face, hybrid and online course

**CIPO4285 - the Fascist System.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Principles of the fascist ideology, and its different expressions. Conceptions of man; history and law. Vision of the social and economic problems. the fascist and Nazi political organization.

**CIPO4287 - International Political Economy.**

*Three credits. Three hours of lecture per week.*

Examines the reciprocal interaction among the state and the global economy. the exercise of state power as a principle determinant to the nature of the global economic systems will be analyzed, in parallel with the economic processes that redistribute power and wealth among international actors.

**CIPO4295 - Problems in the Constitutional History of Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Analysis of selected problems of Puerto Rican constitutional history from the treaty of Paris of 1898 to the present. the course will deal specifically with constitutional decisions as well as other pertinent documents and writings.

**CIPO4305 - Theory of Law.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Analysis of the fundamental concepts pertaining to the field of law, its dynamic character within society and its relationship with other spheres of human life.

**CIPO4306 - Theory of Socio-political Research.**

*Three credits. Three hours of lecture per week.*

The theoretical problems inherent in the application of the scientific method to the study of politics. (c) face to face, hybrid and online course

**CIPO4307 - Socio Political Research Techniques.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: POSC 4306.*  
Study and application of political research techniques through the conduction of a practical research on a political topic. (c) face to face, hybrid and online course

**CIPO4325 - Marxist Thought.**

*Three credits. Three hours of lecture per week Prerequisites: CIPO 3011.*  
Critical examination of some fundamental aspects of Marxist theory, emphasizing Karl Marx's writings.

**CIPO4345 - Labor Movements and Political Process in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*  
Sociological examination of the historical development of the political process in Puerto Rico from the point of view of the working class and its institutions. the consequences of social change on the formation of culture of the working class and its political manifestation in the labor movement since the turn of the century will be analyzed. Special attention will be given to the relations between labor movement and politics in the first fifteen years of the popular democratic party (1939-1954) as the key to the understanding of the present situation. These processes and transformations will be seen in the light of the history of the development of capitalist societies and the international history of labor movements.

**CIPO4365 - Seminar: Rights in the United States Current Problems.**

*Three credits. Three hours of lecture per week.*  
the right to privacy, freedom of expression and of the press, right to dissent, equality in voting, liberty against unreasonable arrest and detention of students, discrimination against women.

**CIPO4375 - French Political Thought 1870-1968.**

*Three credits. Three hours of lecture per week.*  
Examination of French political thought from the third republic to the death of de Gaulle. Discussion of Charles Maurras's and I. Action franchise, the monarchists, and the republicans. French socialism, Christian democracy, the popular front, the third and fourth republics, Poujadism and Gaullism.

**CIPO4385 - Working Class in Contemporary Society.**

*Three credits. Three hours of lecture per week.*  
Study of the classic theories on the working class. Analysis of the structures and political behavior of that class in the context of societies with different levels of socio-economic development and political structures.

**CIPO4405 - Anarchist Political Thought-theory and Practice of Anarchism.**

*Three credits. Three hours of lecture per week.*  
Study of the theories of rejection of authority, political organization, and all types of human subjection as well as the historical evolution of the belief in the need of political power as an inevitable instrument of organization and control of man in society. Examination of the theories of some nineteenth century European thinkers such as Proudhon, Bakunin, Kropotkin and Malatesta and some early twentieth century Puerto Rican thinkers (Capetillo, Cruz, Dieppa, others) comparing them with European and Latin American anarchist thought of that time. the Russian revolution and the Spanish civil war as example of anarchism in action.

**CIPO4415 - the Sociology of Puerto Rican Political Leadership 1904-1968.**

*Three credits. Three hours of lecture per week.*  
An examination of leadership as a socio-political category and social reality in the twentieth century Puerto Rican political process. the aspects of power, influence, authority, and leadership; leadership and elites; social change and leadership; and leadership as an institutionalized power will be studied and illustrated with

in depth study of the leadership of the principal political figures in Puerto Rico in the period 1904-1969.

**CIPO4425 - the Participation of Woman in the Political Process in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Analysis of the situation and participation of women in the political process in Puerto Rico. Examination of the situation of the Puerto Rico women in relation to the fundamental change in social and sexual patterns during the present century, and their effect on the political process. Face-to-face, hybrid and online course

**CIPO4427 - Gender and Political Power.**

*Three credits. Three hours of lecture per week.*

Study of politics from a gender perspective. the course examines the experiences of women's accession to political power, through electoral processes in England, Israel, India, Argentina and Nicaragua. Institutional structures of these countries are studied to understand how women participate and perform in the legislature, the executive, public administration, and international fora. the following issues are emphasized: female political representation; women's and men's styles of leadership and governance; and how gender can mediate the use of political power to effect changes in public policy and public spaces of political participation. 17-08-98

**CIPO4430 - Woman Political Participation in Latin America.**

*Three credits. Three hours of lecture per week.*

Gender relations and the political and economic participation of woman in Latin American countries have significantly changed since the world war- II. This course examines the ideological, cultural, political, and structural factors that have affected the lives of the woman in this regions since the 1950's. Grounded on a gender perspective, the course examines the various forms of the political participation of woman; women's role and the transition to democracy, gender struggles for political representation and access to the political power of the state and government; and the impact of public policy on women's and men social and economic lives. 21-01-97

**CIPO4435 - Methods and Principles of Democratic Thought.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Systematic analysis of major methodological and philosophical commitments of the different strains of democratic thought. Problems of theory and practice, science and values, and unity and diversity of social analysis and action. Methods, principles and applications of classic and contemporary sources.

**CIPO4445 - Principles and Methods of Socialist Thought.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

Systematic examination of major methodological and philosophical commitments of the different strains of socialist thought. Problems of theory and practice, science and values, and unity and diversity of social analysis and action. Methods, principles, and application of classic and contemporary sources.

**CIPO4505 - Political Socialization in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: CIPO 3035.*

Theoretical analysis of the concepts of political socialization and the process of social identity. the validity of these concepts will be examined through study of the experience of political socialization of the child in Puerto Rican society and culture. A research paper is required.

**CIPO4525 - Problems and Perspectives of Puerto Rican Migration.**

*Three credits. Three hours of lecture per week.*

Study of Puerto Rican migration to the United States in view of the economic and social conditions prevailing

in Puerto Rico during the twentieth century. Analysis of the public policies on Puerto Rican migration carried out by the governments of the United States and Puerto Rico.

**CIPO4565 - the Social Contract and Human Rights.**

*Three credits. Three hours of lecture per week Prerequisites: POSC 3011.*

The political theories of Hobbes, Spinoza, Locke, Humme, Rousseau and their contemporaries. Special emphasis on the theories of human nature and conduct, the nature of law, obligation right and liberty; and problems of authority, sovereignty and legitimacy. the effect of these political theories on subsequent thought, political thought and systems.

**CIPO4605 - Special Topics Seminar.**

*3 credits. Three hours of seminar per week Prerequisites: CISO3121-3122*

Advanced seminar that examines in detail and systematically, a current or particular political topic related to the areas of emphasis of the political science program. Instructors choose the seminar's special topic and to what area of emphasis it belongs. Instructional and evaluation strategies put emphasis on the student's critical thinking skills, ability for independent study, and integration of knowledge. This seminar is suitable for students in their fourth year of undergraduate studies or for those who have already taken other courses in the seminar's area of emphasis. Could be repeated up to six credits if the topic is different.

**CIPO4615 - International Law and the Process of Decolonization.**

*Three credits. Three hours of lecture per week.*

Analysis of the basic international law principles which have conditioned the process of decolonization but which in turn have been affected by the same process. Possible consequences (in the field of international relations) of the various ways of acquiring independence through peaceful means will be analyzed.

Colonialism and the principle of self-determination; the uno and the process of decolonization; sovereignty and self-determination; the granting of independence through pacific negotiation in British and French practice.

**CIPO4635 - Theories of Justice.**

*Three credits. Three hours of lecture per week Prerequisites: FOR FOURTH YEAR STUDENTS.*

Examination of the different varieties of theories of justice from their historical as well as analytical point of view, from Plato to the present.

**CIPO4655 - Latin American Political Sociology.**

*Three credits. Three hours of lecture per week Prerequisites: FOR FOURTH YEAR STUDENTS.*

Three credits. Three hours of lecture per week Prerequisites: FOR FOURTH YEAR STUDENTS.

**CIPO4665 - Seminar: The Problem of the Political Integration of Latin America.**

*Three credits. Three hours of lecture per week Prerequisites: FOR FOURTH YEAR STUDENTS.*

Systematic study of the process of Latin American integration, its factors, problems, and viabilities.

Integration as a socio-cultural, economics, and political function. Face to face, hybrid, and online course  
course re activated 2015 course was inactive on a02

**CIPO4685 - the Political Culture of Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Study of the attitudes, institutions, and processes which regulate and define the nature of Puerto Rican political culture and the functioning of the Puerto Rican political systems.

**CIPO4687 - Puerto Rican Politics in the United States.**

*Three credits. Three hours of lecture per week.*

Analyzes the political participation and organization of Puerto Ricans in the United States. Discusses the main theories, concepts and issues involved in the study of their political reality. Studies the migration patterns and the formation of Puerto Rican communities; their patterns of political and electoral participation; and the political relations between the island and their communities in the United States. 12-08-97

**CIPO4695 - Politics in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Following an ample discussion of the general theories on the nature of political parties, there will be a thorough study system in the Puerto Rican context, including its origin, relation to the electoral process, organization and internal structure, and relation to the legislative process, public administration, and the class structure.

**CIPO4705 - Research Seminar in Special Topics.**

*3 credits. Three hours of seminar per week Prerequisites: CISO3121-3122*

Advanced seminar where students carry out individual or group research projects on current or particular topics related to the area of emphasis of the political science program. Research projects are conducted under the approval of the seminar's instructor. The application of theories and the use of research techniques are evaluated according to the research topic. This seminar is recommended for students in their fourth year of undergraduate studies who have already taken the required research courses and other courses in the seminar's area of emphasis. Could be repeated up to six credits if the topic is different

**CIPO4715 - Nationalism, Colonialism, and Imperialism.**

*Three credits. Three hours of lecture per week.*

The nationalist, colonialist and imperialist ideas, theories, experiences and behaviors. The development of the study of these phenomena from traditional historical, and institutional approaches to political thought culminating with the contribution of political sociology.

**CIPO4725 - Seminar: Political Thought in the Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

Intensive critical analysis of the works of some of the principal political thinkers of the Caribbean. Each semester the professor and students participating in the seminar will choose the thinkers to be studied.

**CIPO4805 - Critical Theory of the Frankfurt School.**

*Three credits. Three hours of lecture per week Prerequisites: CISO 312A-3122*

The critical theory of the Frankfurt school is one of the most innovative school of thought in the continental philosophical tradition. This course seeks to fully understand the political perspectives of the critical theory of society developed by the main members of the Frankfurt school. Students will comprehend the value that the critical theory of society has for understanding the present socially and politically. The course will cover philosophical, political and sociological contributions of the most important thinkers of this tradition: Theodore W. Adorno, Max Horkheimer, Herbert Marcuse, and Walter Benjamin. This course is offered for undergraduate senior students.

**CIPO4806 - Modernity and Capitalism: Walter Benjamin and Politics.**

*Three credits. Three hours of seminar per week*

The political philosophy of Walter Benjamin is one of the most important contributions to twentieth century political thought. Insofar as it rejects the philosophical foundations of political and economic liberalism, it provides a critical approach to both capitalism and modern liberalism. The seminar will provide a critical analysis of the political and philosophical thought of Walter Benjamin. This analysis will provide a critical

approach to the relation between capitalism and modernity viewed from the perspective of the critical theory of society. This seminar is intended for advanced undergraduate students.

**CIPO4807 - Literature, aesthetics, and Political Theory.**

*Three credits. Three hours of lecture per week Prerequisites: CISO3121-3122.*

In literature meaning goes beyond what facticity can provide us at an inter predate level. While literary works are produced in a given context and under concrete historical conditions, its meanings and interpretative possibilities can reach registers that go well beyond the work's context. in this sense we find in literature a universalist tendency of meaning and its interpretation. This presupposes that we can make it our own, that we can establish a dialogical communication with the work marked by our own context and questions. in this course, these questions are of a theoretic-political character. Through the discussion and analysis of several literary genres (novel and short story) and some cinematographic renderings of literature, we will be discussing political topics such as justice, violence, colonialism, democracy and inequality. This course is offered for junior and senior undergraduate students.

**CIPO5005 - Contemporary Political Conflicts in the Islamic World.**

*Three credits. Three hours of seminar per week Prerequisites: CISO 3121 AND CISO 3122 OR AUTHORIZATION OF THE DIRECTOR OF THE DEPARTMENT.*

The general purpose of the seminar is to analyze the most significant conflicts in the contemporary Islamic world address to the students interested in international relations. It investigates the sociopolitical differences and complexities of the contemporary conflicts in the Islamic world. in addition to the religious factor, it explores the ethnic, political, economics, and social and the geostrategic and/or hegemonic factors at the regional and international levels.

**CIPO5015 - Seminar Comparative Studies on Religion and Politics.**

*Three credits. Three hours of seminar per week.*

This seminar studies the relationship between religion and politics in different countries and regions. It will depart from the analysis of theoretical debates and empirical problems related to the recent experience primarily in the United States, Latin America, Europe and Islamic countries. Religion, along with its institutional and organizational forms, has proven to have the capacity to exert influence on political transformations worldwide. Such a phenomenon has taken place since the mid-twentieth century and particularly in the countries and regions that this seminar studies. the seminar carries a comparative and international approach that combines theoretical analysis with practical experiences in order to draw comparisons about the political impact of religion in countries and regions, among them, and its implications on the very religions and denominations. the seminar covers topics of interest to political sciences students, as well as to students in other fields of study in the social sciences and the humanities.

**CIPO5025 - Political Theories of Violence.**

*Three credits. Three hours of seminar per week Prerequisites: CISO 3121 AND 3122.*

A critical analysis of contemporary political theories of violence. the seminar explores the dialectical dimension of violence. It develops a theory-political reflection of polarizing debates between on the one hand the necessity of violence defended by radical groups and on the other hand proposals defending the eradication of violence within a telos of peace. the seminar explores its main theme through the critical analysis of political thinkers ranging from modernity (Robespierre, Machiavelli, Hobbes) to contemporary thinkers (Hannah Arendt, j. P Sartre, s. Zizek, h. Marcuse, g. Sorel, j. Derrida, s. Freud). the seminar is directed at both advanced undergraduates and graduate students from related disciplines.

**CISO3001 - Modern Western European Civilization.**

*Three credits. Three hours of lecture per week.*



This course is directed to the understanding of contemporary European conditions and problems through reference to the intellectual, political, and socio-economic development of Europe in the nineteenth and twentieth centuries. A collection of source materials will be used as a basis for group discussions, although this will be supplemented, whenever necessary, with secondary literature.

### **CISO3002 - Modern Western European Civilization.**

*Three credits. Three hours of lecture per week.*

This course is directed to the understanding of contemporary European conditions and problems through reference to the intellectual, political, and socio-economic development of Europe in the nineteenth and twentieth centuries. A collection of source materials will be used as a basis for group discussions, although this will be supplemented, whenever necessary, with secondary literature.

### **CISO3007 - Introduction to Demography.**

*Three credits. Three hours of lecture per week.*

The purpose of this course is to provide an overview of the field of demography. Emphasis will be given to the study of world and regional population growth and distribution; future trends of population growth or decline; elements of population growth and distribution (fertility, mortality, migration); biological, social, economic and demographic factors affecting fertility, mortality and migration; political, economic, social and environmental implications of current and future trends in population growth, distribution and composition; policies relating to migration and fertility control; their effectiveness, etc.

### **CISO3011 - Social Problems in Puerto Rico.**

*3 credits. Three hours of discussion per week Prerequisites: CISO 3121-3122.*

Interdisciplinary and critical study of contemporary society and its problematical aspects with special emphasis on Puerto Rico's social problems such as: crime, juvenile delinquency, violence against women and children, aging and abandonment, literacy and illiteracy, housing, population problems, discrimination and racism, inequality and marginalization, mental, illness, drug addiction, alcoholism, prostitution, family disorganization, population problems, among others.

### **CISO3025 - Latin America's Peasantry.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121,3122.*

Study of food production and agricultural strategies among Latin America's peasantry. People's cultural, economic, and political responses to changes due to agricultural industrialization, succession of land reforms and resulting displacements, local small farmers, and indigenous claims to land and resources, country to city migration, and environmental decay. Examination of topics and case studies by country.

### **CISO3045 - Modern Russian Civilization.**

*Three credits. Three hours of lecture per week.*

This course will investigate the principal characteristics and developmental lines of Russian political-governmental development; intellectual and socio-economic life from the nineteenth century to the present day. Emphasis on the old regime, the revolutionary movement, and the great Russian revolution.

### **CISO3055 - Modern Russian Civilization.**

*Three credits. Three hours of lecture per week Prerequisites: FOR THE STUDENTS OF THIRD AND FOURTH YEAR.*

This course will investigate the principal characteristics and developmental lines of Russian political-governmental development; intellectual and socio-economic life from the nineteenth century to the present day. Emphasis on the Soviet Union and the communist world.

**CISO3056 - Social Dimensions and Consequences of Technology.**

*Three credits. Three hours of lecture per week Prerequisites: FOR THIRD AND FOURTH YEAR STUDENTS.*

Study of the historical and social processes which have conditioned the development of technology and its impact on society, work, education, and culture.

**CISO3057 - Societies and Cultures in Contemporary Latin America.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: CISO 3121 AND 3122.*

Interdisciplinary approach to the social and cultural history of contemporary Latin America. Conference and discussion on subject topics like urban growth, agriculture and industrialization, environmental consequences of regional development, ethnic diversity and identity, population mobility and migration, religiosities, cultural and social gender based-relations, and economic and political culture among different sectors of Latin American's societies and communities. Comparative study and discussion of case studies by country.

**CISO3065 - Indigenous and Colonial Ethnohistory of Puerto Rico.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121, CISO 3122.*

Interdisciplinary study of the historical, archaeological, ethnological, and cultural factors in the early configuration and formation of Puerto Rican society. Discussion emphasizes on various and distinctive pre-Hispanic cultural and social modes of indigenous life, and 16th to early 19th centuries colonial cultural, political, and economic dynamics of social life, including slavery, ethnic and religious mixing, language variation, population mobility, settlements, and social exchanges both island wide and in the region of the Caribbean.

**CISO3086 - Society and Cultures in Puerto Rico.**

*3 credits. Three hours of lecture per week.*

Interdisciplinary study of Puerto Rico society with particular attention to social and cultural processes of late 19th century through the 20th century and up to present day. Examination of cultural and historical changes and transformations due to economic development strategies, migration, urbanization and sprawling, emerging modes of everyday life, religion, literature and the arts, identity, language, the role of women and social movements, and political and social causes such as community- based initiatives and the environment.

**CISO3095 - Seminar: Patterns of Philippine Development.**

*Three credits. Three hours of lecture per week.*

A course of the socio-historical development of the Philippines from pre-Spanish times to the present, focusing on the Spanish and American connections, with significant comparisons being drawn with Puerto Rico's own experience of those two regimes.

**CISO3101 - Transformation in East Asia.**

*Three credits. Three hours of lecture per week.*

Considers some dimensions of east Asia's experience of the west from the perspectives of that areas traditional civilization, emphasizing the wide range of responses and adjustments made by east Asians in their encounters with the non-east.

**CISO3102 - Transformation in East Asia.**

*Three credits. Three hours of lecture per week.*

Considers some dimensions of east Asia's experience of the west from the perspective of that areas traditional civilization, emphasizing the wide range of responses and adjustments made by east Asians in their encounters with the non-east.

**CISO3111 - Civilization of the United States.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. PERMISSION OF THE PROFESSOR.*

A historical perspective of the structure and norms of United States society and its political economy with some of the persistent and difficult problems. Materials of various social sciences are integrated with works from literature and politics.

**CISO3112 - Civilization of the United States.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. PERMISSION OF THE PROFESSOR.*

A historical perspective of the structure and norms of United States society and its political economy with some of the persistent and difficult problems. Materials of various social sciences are integrated with works of literature and politics.

**CISO3146 - Ethnohistory on Indigenous Antiquities and Colonial Cultures in Latin America.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: CISO 3121 AND CISO 3122.*

Interdisciplinary approach to the study of early historical, archaeological, ethnological, and cultural variables in the emerging Latin American societies. Emphasis on the paleo demography of earlier human settlements in the continent, diverging pre-Hispanic indigenous mode of cultures, economics, and sociopolitical life, cultural, economic and political dynamics of colonial life resulting in the aftermath of the 16th century and conquest and colonization. This includes exchanges with local indigenous groups, slavery, ethnic mix and religiousness exchanges, linguistic variability land use and distribution, rising settlements and urban centers, and economic and social exchanges among the colonies and the metropolis.

**CISO3155 - Elements of Statistical Reasoning.**

*3 credits. Three hours of lecture per week Prerequisites: MATE 3105.*

Elementary statistical methods as applied to the social sciences, emphasizing their limitations, computational skills and interpretation of statistical results. Frequency distributions, measures of central tendency, variability, measures of relative position, simple regression and correlation analysis, and basic notions of inferential statistics and research designs, are among the topics included. (c) this course will be offered face-to-face, hybrid and online modalities.

**CISO3157 - Language, Culture and Society in Puerto Rico.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: CISO 3121 AND CISO 3122.*

Ethnological and linguistics approach to the study of language, linguistic variability, culture and identity among different speaking communities in Puerto Rico emphasis on culture bound practices among interacting groups with various forms of linguistics construction of meaning. Study of culture and language change out of schooling programs, industrialization and urbanism, and the collective mass production of communication and commercialization. Study also takes into account such determining culture factors as language planning, the struggle for language identity between Spanish and English, music influence and tastes, literature, electronic games, television, cell communication and the internet. Finally, discussion takes into consideration language experiences brought by Caribbean immigrants and language influences with ethnic Puerto Ricans returned and circular migrants born and raised in the United States.

**CISO3185 - Systems Theory in the Social Sciences.**

*Three credits. Three hours of discussion per week Prerequisites: FOR THIRD AND FOURTH YEAR STUDENTS.*

This course provides a general understanding systems theory as a tool for research in the social sciences. Definite examples will be given to show the application of this new approach to the study of specific social problems.

**CISO3186 - Societies and Cultures in Contemporary Caribbean.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121, 3122.*

Interdisciplinary approach to the culture and economic history of present day cultural and societal diversity in the Antilles and greater Caribbean region. Study of formative cultural and social processes emerging from the colonial systems, the economic and cultural plantation and slave systems, cash crop and export-led capitalist development in the 19th century, the experiences with migration in and out of the region. Discussion also includes development- like economic policies, independence and rearrangement of political links between old and existing territories and their old metropolis, migration, identity and ethnic and linguistic variability and representation, and culture changes in contemporary Caribbean societies. Particular emphasis on the English and French speaking Caribbean.

**CISO3195 - Methodology of the Social Sciences.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121,3122 CISO 4007.*

Critical approach to the theoretical and philosophical foundations of the social sciences. Problem study and approaches to research problem definition in the social sciences by looking at different means of methodology, data gathering techniques, analysis, and interpretation. Lectures and workshops include research proposal design, particular emphasis to methodology design of variables selection and hypothesis.

**CISO3200 - Writing Style in the Social Sciences.**

*Three credits. Three hours of conference per week Prerequisites: CISO 3122*

Reading comprehension of bibliographic surveys in the social sciences, usage of fields scientific journals, preparing notes, essays, articles, and monographs using statistical data, archival survey and qualitative data. (c) 12-08-97

**CISO3205 - Techniques of Social Research.**

*Three credits. Three hours of lecture per week.*

A critical assessment of the logical, conceptual and technical problems involved in the design of various types of research models in social sciences. (c)

**CISO3215 - Poverty in Puerto Rico.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121,3122.*

Interdisciplinary study with a particular emphasis on the historical analysis and present state of poverty. the study of structural cultural, social, and economic causes of poverty and its effects. in addition, government initiatives on social policy and the welfare state will be examined, along with cultural and everyday aspects of living in poverty in Puerto Rico.

**CISO4001 - Qualitative Methods and Techniques in the Social Sciences.**

*Three credits. Three hours of lecture per week Prerequisites: CISO 3121 AND 3122.*

Scientific research training and development in qualitative methods and techniques in the social sciences. Discussion and exercise close in upon ethnography's techniques such as observation, participant observation, ethnographic mapping, ethno-photography/visuals, and ethnographic interviews. Discussion and exercises also include archival survey and research, genealogical survey blocs, free association techniques, focal groups, and oral history interviews. 08-14-2000

**CISO4005 - Socialism in Contemporary Spanish History.**

*Three credits. Three hours of lecture per week.*

The study of the various forms of Spanish socialism, through an analysis of the development of its main trends and historical influence in the shaping Spanish society.

**CISO4007 - Library Research and Documents Data Management in the Social Sciences.**

*Three credits. One hour lecture, one hour workshop and one hour investigation per week Prerequisites: CISO 3121-3122.*

Introduction to the general principles of library research and document and data allocation sources, library cataloguing and indexing of collections, documents, periodicals, maps, references, and scientific and academic journals. Abstracts search and sourcing of academic journals in the social sciences. Research and library data gathering-including use of the internet of quantitative and qualitative primary sources, documents, archival and non-library data references such as government and non-government institutional databanks and reports both in Puerto Rico and abroad.

**CISO4011 - Social Research and the Data Analysis.**

*Three credits. Three hours of lecture per week.*

The study of the research methods and the statistics in a comprehensive way. the students and the professors will emphasize the research work, theoretical and empirical problems of the social techniques and statistics. (Experimental course).

**CISO4012 - Social Research and the Data Analysis.**

*Three credits. Three hours of lecture per week.*

The study of the research methods and the statistics in a comprehensive way. the students and the professors will emphasize the research work, theoretical and empirical problems of the social techniques and statistics. (Experimental course).

**CISO4025 - Social Impact of the Negro Slavery in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

A study of slave uprising in Puerto Rico and its importance to the contemporary Puerto Rican society. (c)

**CISO4035 - Problems of Independence in the Contemporary Caribbean.**

*Three credits. Three hours of lecture per week.*

This course will discuss; (1) the history of national independence in Caribbean region from the Haitian war of liberation in the 19th century to the Cuban revolution in the 20th century; (2) the problem of strategy involved in obtaining independence; (3) the character of independence once obtained and; (4) the variety of problems, social, cultural, political and economic, faced by independent national regimes in the present day period. Emphasis will be placed on an interdisciplinary approach to the problems.

**CISO4042 - Statistics for the Social Sciences.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3016 OR ITS EQUIVALENT.*

Statistical methods as applied in social sciences research. Primarily intended for students majoring in general social science: subject concentration: techniques of investigative and statistical methods in social sciences.

**CISO4045 - the United States and the Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: CONTINUATION OF SOSC 4035.*

The course deals with the history and character of the relationship between the United States and the Caribbean area, starting historically, with the late 18th century period and throughout the 19th century, but with its major concentration on the modern period since 1898. It deals with the various themes of pan-Americanism, manifest destiny, the Monroe doctrine and its Caribbean application, etc. It analyzes the various forms of u. S. Intervention in the region. It concludes with discussion of the Caribbean response to the problems this raised, bringing the subject update with the development of regional forms of association between Caribbean nations in the 1960's and 1970's.

**CISO4046 - Experimental Design and Analysis of Variance.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3155 AND 4052.*

Discussion of experimental designs and the corresponding analysis of variance.

**CISO4047 - Correlation and Regression in Social Sciences.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3155 OR EQUIVALENTS.*

Introduce students in the vast and interesting world of the estimation of correlation and regression, and its application in research in social sciences. Basic concepts of correlation and regression analysis will be present in bivariate and multivariate models. The study of relationships between variables and their representation through tables, graphics, diagrams of dispersion and mathematical models that contribute to describe, interpret, predicate and explain problems in social sciences. The emphasis will be in the analysis and interpretation of data to estimate correlation and regression in which the paradigm of statistical normality applies. A statistical computer programming could be used for statistical data entry, graphics and analysis in parametric modality.

**CISO4048 - Statistics for the Social Sciences.**

*Three credits. Three hours of lecture per week Prerequisites: MATE3105 AND CISO3155*

Introduction to statistical inference, sampling distribution, emphasis on estimation and significance test, methods for comparing two groups, measures of association for categorical variables and nonparametric methods. This course will be offered face-to-face, hybrid and online modalities. Este curso sustituye a ciso 4042. Efectivo enero 2009.

**CISO4055 - Contemporary Puerto Rican Society.**

*Three credits. Three hours of lecture per week.*

Study and analysis of contemporary Puerto Rican culture and recent historical changes in terms of ecological adaptation of the historically derived patterns to the local geographical environment. Analysis of the lifeways of certain special segments and classes of Puerto Rican population, which are numerically important. Consideration of the recent socio-cultural transformations brought by industrialization.

**CISO4065 - Contemporary Britain: Race, Social Class and Politics.**

*Three credits. Three hours of discussion per week.*

The course will concentrate on Great Britain as a cultural-political matrix, with special emphasis in the relationships between social class, race and politics. It will examine the interaction of those general phenomena upon one another, with emphasis on the post 1945 period, which witnessed at once the growth of the modern welfare state and the intrusion of race and color as new components in British life. The course will be inter-disciplinary in character, with material drawn from most of the modern social sciences.

**CISO4075 - the United States and the Caribbean Area.**

*Three credits. Three hours of lecture per week.*

The first part of the course provides a historical survey on United States diplomatic, economic and cultural relations with the lands of the Caribbean basin, including West Indies, Mexico, Central America, Colombia and Venezuela. This is followed by a study of contemporary relations and conditions.

**CISO4085 - the Catholic Church and the Protestant Churches in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR.*

Socio-political study of these social institutions within the framework of the historical transformation of Puerto Rico, since the United States invasion in 1898, the depression of the 1930's, the development of populism until 1940 and its crisis in the 1980's.

**CISO4095 - Modern Totalitarianism.**

*Three credits. Three hours of discussion per week Prerequisites: FOR THIRD AND FOURTH YEAR STUDENTS.*

The origins, development, and character of modern totalitarian movements, states, and ideologies. Particular attention to Italian fascism, German national socialism, and soviet communism and, as a related, though contrasting case, the franco regime in Spain.

**CISO4105 - Popular Movements in Latin America and the Caribbean.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121 AND CISO 3122.*

Interdisciplinary, comparative, and critical analysis of economic, political, and cultural factors, in addition to specific historical context of different popular and social movements taking place in Latin America and the Caribbean. Emphasis on particular and selective case by case study of popular movements including, historical analysis of their origins, demographic composition, cultural geography, ethnicity and language variability, gender issues, and class structure and composition, economic demands, political organization and the result and consequences of their actions.

**CISO4115 - Problems and Perspective in Latin America and the Caribbean.**

*3 credits. Three hours of lectures per week Prerequisites: CISO 3121 AND CISO 3122.*

Historical and social study of known regional economic, political and cultural problems developing in the Latin America and the Caribbean. Course discussion and analysis of poverty and inequality, social distribution of wealth and income, land tenure and reforms, resources and sustainability, patterns of employment, unemployment, and subemployment, addiction, social means of violence, education and literacy, urban sprawl, migratory tendencies, gender inequality, identity and ethnic and linguistic discrimination, and political and social representation. Comparative case study and analysis.

**CISO4125 - Social Institutions of the Caribbean Area of French Expression.**

*Three credits. Three hours of lecture per week.*

Study and analysis of the social institutions (social stratification, family, economy, politics and religion) of the Caribbean areas of French cultural influence with particular emphasis on Haiti, but with reference on Louisiana, Martinique, Guadalupe and French Guiana.

**CISO4135 - Theory Construction in the Social Sciences.**

*Three credits. Three hours of lecture per week.*

A review of the common elements of theories. The function of theory. Some illustration of articulate theories (e. G. Anthony Dorons, George Kelly). Some practice in the development of theories from simple assumptions.

**CISO4145 - Contemporary Spanish Society.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**CISO4155 - the Church as A Sociopolitical Factor in Latin America.**

*Three credits. Three hours of discussion per week Prerequisites: IN CONSULT WITH HIS ADVISOR.*

A study of the social and political functions of this institution function in Latin America from the independence period to the present.

**CISO4165 - the Sociology of Puerto Rican Literature.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3245.*

Literature as a social fact. the literary social fact as a reflection of the social order. Literary facts in the light of different theoretical conceptual schemes. the sociological analysis of selected works of Puerto Rican

literature.

**CISO4166 - Women in Contemporary Puerto Rico.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Analysis of the most salient debates, context and contents of women changing role in society, and their relation to the development of feminist theory and women's studies in contemporary Puerto Rico.

**CISO4175 - Colonialism and its Social and Psychological Impact.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3245.*

Analysis of the principal theories which have been developed concerning the colonial society. Elaboration of schemes and hypothesis which provide the foundation for the intensive study of two such societies. (c)

**CISO4185 - Japanese Society and Culture.**

*Three credits. Three hours of lecture per week.*

This course aims to give an overall view of modern Japan by sampling the major contributions of various disciplines in the study of Japanese society and culture. Topics will include the principal Asian and western traditions in the cultural evolution of that society, and the role of these traditions in the modernization of Japan. More than half of the course will be devoted to the modern period, with emphasis on significant developments and the present state of the arts, religion and social organization in Japan.

**CISO4195 - Chinese Civilization.**

*Three credits. Three hours of lecture per week.*

This course will explore major trends in the development of Chinese civilization from earliest times to the present. It will include a consideration of (1) the evolution of traditional patterns of economics, social, political and religious organization, and (2) the process of revolution and institutional change in modern China to the communist period. It will also be concerned with the relationship between tradition and change in contemporary Chinese society, and the function of these in the politics, the economy, the ideological system, the community and kinship institutions, as well as the personality structure of the Chinese individual.

**CISO4205 - Studies in Cultural History and Development in Contemporary Africa.**

*3 credits. Three hours of discussion per week Prerequisites: CISO3121-3122.*

Interdisciplinary approach emphasizing the historical, cultural, political, economic analysis of modern state societies in the African continent. Topics of discussion include: the historical and cultural consequences of the Atlantic slave trade as well as the east Africa slaves trades, European partitions and their colonial culture and economics systems, and the struggles for independence and its consequences. Class discussion also includes the economic cultures of development strategies, the cultures of politics and state formation, production and distribution of wealth, Africa's underdevelopment and poverty, population growth, regional ethnic and religious conflicts, diversity quests for identity, gender-based social relationships, and the frequency of health epidemics including aids. Comparative case studies.

**CISO4215 - the Chinese Revolution.**

*Three credits. Three hours of lecture per week.*

A survey of the modern revolution in China, including a consideration of its historic origins and an examination of the dynamics of change and reconstruction in Chinese society under communism. Stress will be given to the interrelationship of the ideological, socio-political, economic, and psychological aspects of that change.

**CISO4225 - the Civilization of Indian and Pakistan.**

*Three credits. Three hours of lecture per week.*



An interdisciplinary study of the Indian subcontinent, stressing the structure of social institutions, e. G. Family, caste and economy. Emphasis is placed on the changes in Indian social, economic and political institutions brought about by British rule, as well as on the rise of nationalism which culminated in independence and the partition of Indian and Pakistan.

**CISO4235 - Colonialism in Vietnam.**

*Three credits. Three hours of lecture per week.*

The impact of the French and American presence on the national development of Vietnam.

**CISO4241 - the British Civic Culture.**

*Three credits. Three hours of lecture per week.*

This course will discuss the general character of contemporary English life, society, culture and politics. It will examine (1) the historical development of the society, (2) its present character, (3) the relationship between society and the particular political institutions of the national life, parliament, the cabinet, the civil services, political parties and national political opinions. Comparisons will be discussed throughout the course with similar political cultures in the United States and specially Puerto Rico.

**CISO4242 - the British Civic Culture.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 4241.*

The course concentrates on special areas of British political parties, political style forms of political leadership and problems of political ideology. These will be related to the general environment of British culture and society, and the interactions between culture and society, on the one hand, and political party organization and ideology on the other hand. Special problems that illustrate those interactions will be deal with, for example: the politics of the European common market, the politics of the Celtic nationalist movements in Wales and Scotland, and the politics of the development race and color problems. It will be then, a course based in the assumptions of political sociology.

**CISO4255 - Contemporary French Civilization.**

*Three credits. Three hours of lecture per week.*

An analysis of contemporary French civilization. the social, economic, and political aspects will be discussed as well as French thought and style of life.

**CISO4275 - Social Problems of Puerto Rico in its National Literature.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3011-3012.*

To trace the social problems in the Puerto Rican literature, both written and folks, from the nineteenth century and study its contrast with the real problem of each period.

**CISO4276 - Betancean Nationalist in the Formation of Nineteenth Century Puerto Rican Society.**

*Three credits. Three hours of lecture per week.*

Study of the socio-economic, political and cultural conditions of the Puerto Rico of the nineteenth century and its application in the formation of the Puerto Rican nationality through the study of the life and works of dr. Ramon Emeterio Betances.

**CISO4277 - History of Social Science in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Study of the historical development of the social sciences in Puerto Rico examining the basic questions posed regarding our society, and the interpretative paradigms, analytical approaches and research methods developed around the aforementioned questions.

**CISO4285 - Seminar: Nationalist Revolutionary Movements in Asia.**

*Three credits. Three hours of lecture per week.*

A comparative analysis of movements against western imperialism in southern Asia, including Indian and Indonesia.

**CISO4295 - Study of Post-war Independence Movement in the United Kingdom: Scotland, Wales, North Ireland.**

*Three credits. Three hours of lecture per week.*

Social and class movements, conflict between the electoral process and violent alternatives; languages in Wales and political parties and their implications for British politics.

**CISO4305 - the Social and Psychological Impact of Puerto Rican Emigrants.**

*Four credits. Six hours of lectures per week.*

Historical analysis of Puerto Rican emigration, its principal demographic characteristics and its relationship with the political and economic processes. Study of the impact of migratory experience upon those Puerto Ricans who remain abroad, those who return, and upon agricultural migrant laborer.

**CISO4306 - the Puerto Rican Experience in the United States.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: SOSC 3121-3122.*

Interdisciplinary analysis of the social, economic, political and cultural evolution of the Puerto Rican community in the United States from the late nine teenth century to the present.

**CISO4315 - Conflict in the Middle East.**

*Three credits. Three hours of lecture per week.*

Study of the conflicting interest of the established middle eastern elite revolutionary groups and the big powers.

**CISO4325 - Nationalism in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Study and development of nationalism in Puerto Rico (1800-1950). Analysis of the factors contributing to the rise of nationalism. (Spanish and American) the nationalist party in Puerto Rico and the personality of Pedro Albizu Campos as elements of Puerto Rican nationalism will also be analyzed. (c)

**CISO4335 - University and Society in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Historical analysis of the social functions of the university in Puerto Rico and its relationship with other social institutions, primarily, the political, economic and social class systems. Analysis of the social structure of the university, its conflicting ideologies and its effects on university goals and intellectual development. the course will also include a study of roles played by professors and administrators, scientific and literary activities of professors and attitudes of its leavers.

**CISO4337 - Latin American and Caribbean Nationalism.**

*Three credits. Three hours of lecture per week.*

Analysis of the formation processes of nationalist ideologies and movements in Latin America and the Caribbean.

**CISO4341 - the History and Philosophy of Social Thought.**

*Three credits. Three hours of lecture per week.*

The study of the various historical and philosophical orientations, and their practical and theoretical

implications, of the different disciplines within the social and human sciences.

**CISO4345 - Nations and Nationalism.**

*Three credits. Two hours of lecture and one of discussion per week.*

Analysis of the origins and development of nationalist ideologies and movements in the contemporary world. Examination of different sociological theories about nationalism and the nation. Mapping of nationalism in different epochs and regions of the world. 16-08-99

**CISO4375 - Seminar in Colonialism.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121, 3122.*

Critical examination of richly diverse theoretical and philosophical debates on the historical, cultural, political and economic consequences of western style colonialism, decolonization processes, and the ideological and cultural significance of different discourses and narratives such as orientalism, Afrocentrism, and eurocentrism. Discussion also includes a critical examination of named cultural studies and theories on postcolonialism. Examination of case studies.

**CISO4381 - Seminar: The Human Consequences of the Social Sciences.**

*Three credits. Three hours of lecture per week.*

A research seminar concerning the consequences of the social sciences upon the social system, the community and personal life, with emphasis placed on its effects on Puerto Rican world view.

**CISO4396 - Interdisciplinary Seminar: economic Development in Latin America and the Caribbean.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: CISO3121-3122/ECON3005*

Interdisciplinary seminar on the relationship between the history of capitalism and the emergence of economic theories, with emphasis on the evolution of the ideas of development and underdevelopment, especially in Latin America and the Caribbean. Readings and discussion about developmentalism as a phenomenon in the region, including the diverse theories and experiences produced up to the present time, and culminating with a research term paper by each student applying a theory to the analysis of a specific country.

**CISO4405 - Contemporary Germany: Critical Thought and Society.**

*Three credits. Three hours of lecture per week.*

After appraising the historical conditions which have shaped the twentieth century Germany, a series of authors will be studied. These authors have critically interpreted contemporary society with great insight. Special attention will be given to the Frankfurt school. the class will be conducted primarily around the reading and discussion of texts.

**CISO4425 - Mass-media.**

*Three credits. Three hours of lecture per week.*

Analysis of mass-media used in industrial societies such as: the press, radio, motion pictures, television, popular novels, comics, phonograph records, etc. the dynamics of these mass-media, as well as its function in the general social context, will also be studied.

**CISO4435 - Community and Society.**

*Three credits. Three hours of lecture per week.*

The seminar will attempt to find out if Ferdinand Tönnies's scheme based on the distinction between community and society is applicable to Puerto Rico. the seminar will also deal with the problem of the corresponding psychological types.

**CISO4445 - Seminar: Latin American Leaders of Social Change.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3071 OR SOSC 3072 AND PERMISSION OF THE PROFESSOR*

The ideas on social revolution of three major revolutionary leaders in Latin America will be analyzed on the basis of their writings, speeches and impact on contemporary society.

**CISO4450 - Central American Studies Seminar.**

*Three credits. Three hours of lecture per week.*

An interdisciplinary analysis of the central American situation since the second world war (1945). the region will be analyzed from economic, political, social and cultural point of view.

**CISO4455 - Seminar on Caribbean Philosophers of Social Change.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3061 OR SOSC 3062 OR PERMISSION OF THE PROFESSOR*

Seminar on Caribbean philosophers on social change. the ideas of social revolution of three outstanding Caribbean thinkers from the English, Dutch and French colonial experiences will be analyzed on the basis of their writings and their impact on contemporary society.

**CISO4465 - Seminar: Race Relations in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Analysis of ethno-racial relations prevailing in Puerto Rican society, especially the varieties of ethno-racial prejudice and discriminatory practices against black Puerto Ricans and other oppressed ethno-racial groups. Historical roots of ethno-racial-colonial oppression will be examined, their legacy and influence on interpersonal relations; as well as private and public policy regarding racial prejudice and discrimination. Moreover, black Puerto Ricans' contribution to the culture will be examined; as well as alternatives for transformation of socioeconomic and political conditions which are rooted on racism and ethnocentrism. the seminar includes: a research exercise, conference-dialogues, and fieldwork experiences. 19-08-96

**CISO4475 - Seminar: The Indiann Origins of Puerto Rican Culture.**

*Three credits. Three hours of lecture per week.*

The study, from an anthropological perspective, of primary sources and documents dealing with pre-Columbian cultures in Puerto Rico and related areas, to precise their social processes and cultural dynamics. Will be complemented with the use of relevant archaeological, ethnological, and linguistic information. (c)

**CISO4481 - Seminar: Problems in the Modern Society of Puerto Rico.**

*Three credits. Three hours of lecture per week*

Particular problems in the areas of the social, economic and political institutions of Puerto Rico will be selected for study and inquiry. Existing research materials will be used as well as other available sources of information. Lectures, discussions of research readings, and reports based on new inquiries.

**CISO4495 - Seminar: Research on Problems of Puerto Rico.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: PERMISSION OF THE PROFESSOR*

Students will assist the seminar director in research on the significant problem selected for study. They will analyze studies of the problem made by others, collect data, and cooperate in the preparation of papers to report the seminar research.

**CISO4505 - Seminar: Modern Imperialism.**

*Three credits. Three hours of lecture per week.*

This seminar will investigate, through selected readings and student reports, various aspects and problems relating to the extra-national expansion of the major occidental powers from the late nineteenth century resurgence of imperialism to the disintegration and transformation of established imperial structures in the modern world. Particular attention to the analysis of relevant literary materials and to the study of the west Indiann colonial scene, both past and contemporary.

### **CISO4515 - Symbols and Communication.**

*Three credits. Three hours of lecture per week Prerequisites: FOR THIRD AND FOURTH YEAR STUDENTS*

The psychology of sign-and-symbol making and using in animal and human communication; the function of symbolic representation in human culture; public and private symbols; symbolization in social role and authority structures; and the function of symbolization in the formation of values and the communication of knowledge. Each topic will be discussed in terms of a variety of viewpoints among psychologists, anthropologists, sociologists and philosophers.

### **CISO4521 - Seminar and Study Tour of the Caribbean.**

*Three credits. Twenty hours of lecture and fifteen hours of laboratory work per week Prerequisites: ANY CARIBBEAN COURSE*

A comparative study of contemporary social, economic, and political problems in three Caribbean islands: one English speaking, one Spanish speaking and a French or Dutch speaking island.

### **CISO4522 - Seminar and Study Tour of the Caribbean.**

*Three credits. Twenty hours of lecture and fifteen hours of laboratory work per week Prerequisites: SOSC 4521*  
Seminar and study trip to actual communities abroad which are discussed in the course of social science 4521.

### **CISO4535 - Seminar: Mass Media in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 4425*

The investigation of certain aspects of mass media, the press, radio, motion pictures, television, etc., in Puerto Rico and its function in Puerto Rican society.

### **CISO4545 - Seminar: Social Science, Social Thought and Revolutionary Change.**

*Three credits. Three hours of lecture per week.*

An examination of current approaches in popular and social sciences literature to the problem of rapid social change and revolution. the course will deal with the prevalent theoretical and ideological explanations of the source of conflict in contemporary societies and with the problem of the dual role of the social scientist as interpreter and participant in the process related to rapid social change.

### **CISO4555 - Research Seminar: The Process of Acculturation in Puerto Rico During the Colonization Period.**

*Three credits. Three hours of lecture per week.*

The course will deal primarily with the process of acculturation in Puerto Rico during the conquest period. Special emphasis will be given to Spanish social institutions of the time, with references to the social phenomena of the aboriginal cultures in the Caribbean areas within the context of the culture conquest concept.

### **CISO4565 - Seminar: Societies and Cultures in North Africa and the Sahel Region.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121,3122.*

Interdisciplinary approach to area studies of interest in Africa. Lectures, discussion, and study of literature,

emphasizing aspects of historical, cultural, demographic, geographic, political, and economic toward north Africa and the Sahel. Focus on topics such as ethnic and linguistic diversity, religiosities, such as Islam, Christianity, polytheist and animalist religious practices family genealogies and kinship, political struggles and regional conflicts, economic activities and development in the Maghreb. Case studies includes Egypt, Libya, Tunisia, Algeria, and Morocco; in addition to the Sahel region of Sudan, Chad, Niger, Northern Nigeria, and the Saharan territories in Mali, Mauritania, and the Saharai territory (Western Sahara).

**CISO4585 - Puerto Rico and the Caribbean.**

*Three credits. Three hours of lecture per week.*

The course will aim at giving the student a historically and sociologically sophisticated view of Caribbean cultures, emphasizing Puerto Rico as a somewhat unique example. Course will include, in addition to lectures and class discussions, field trips designed to familiarize the students with selected Puerto Rican institutions in action. Comparison of these with parallel and contrasting institutions on other Caribbean islands.

**CISO4587 - Seminar: Theory and Field Work on Puerto Rican Folklore.**

*Three credits. Three hours of lecture per week.*

This course will develop in the student the mastery of techniques for the design, preparation, testing, and use of research instruments for the collection of Puerto Rican folklore. He will also be trained in the techniques of transcription and presentation of folklore data.

**CISO4590 - Seminar: Cultures and Religiosity in the Caribbean.**

*3 credits. Three hours of seminar per week Prerequisites: CISO 3121 AND CISO 3122.*

Interdisciplinary analysis of different historical and cultural religious practices and expressions in contemporary Caribbean societies. Study of beliefs systems, practices and culture variability resulting out of colonial processes in relation to Christianity (ex. Catholicism, Protestantism, and their popular religiosities), Afro-Caribbean religiosities (ex. Voodoo, Santeria, and Rastafarian), Islam, Hinduism, and Chinese and Hindi Buddhism. Additional discussion of ethnohistoric and archaeological literature regarding pre-Colombian indigenous religious practices and their presence in today's religiosities in the Caribbean.

**CISO4595 - Youth and Society in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Analysis of the youth in terms of historic and theoretical. Existing views and research findings on polemical aspects of youth behavior will be presented placing special emphasis on the Puerto Rican experience. (c)

**CISO4605 - Functional and Social Development of the Music in Puerto Rico and the Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

Analysis of Puerto Rican history and society through the diversity of its musical expression. the analysis will be achieved by the study of social, economic, political and cultural aspects as elements in the formation of specific expressions in the music field, given the appropriate importance to the working force of musicians and its social background. Material of discussion will be based on information gained by searching newspapers and others documentary sources as town council acts, notary files, military police reports, etc.

**CISO4615 - Seminar: Race, Class and Politics in Meridional and the Caribbean.**

*Three credits. Three hours of lecture per week.*

A comparative and interdisciplinary analysis of contemporary conflicts in meridional Africa and the Caribbean basin.

**CISO4625 - Seminar: Societies and Cultures Southern Africa.**

*3 credits. Three hours of seminar per week Prerequisites: CISO 3121 AND CISO 3122.*

Interdisciplinary study on the historical, cultural, socioeconomic and political formation of the peoples and countries in the southern region of Africa and the western Indian ocean archipelagos. Emphasis on the study of ethnicities, gender, language variability, and religious societies among the people in the region. Diverse economic activities, processes of integration and marginalization resulting from apartheid and postcolonial experiences, such as civil wars. Case studies include: Angola, Botswana, Comoros, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, South Africa, Swaziland, Zambia and Zimbabwe.

#### **CISO4626 - Study Trip to Southern Cone of Africa.**

*Four credits. Four hours of seminar, four hours of discussion and group coordination, and two hours of workshop per week Prerequisites: CISO 4615 OR CISO 4625 OR GEOG 3015.*

Study trip to two or three contemporary societies of the southern cone of Africa analyzed in CISO 4625. 09-04-97

#### **CISO4627 - Interdisciplinary Practices in the Social Sciences.**

*Three credits. Prerequisites: 60*

It will offer our faculty undergraduate students the opportunity to develop professional skills and be linked to the labor market in their specific discipline of study through an elective course. It is a way of integrating the study with practical experience in any organization from early in the career of the student. Practical experience exposes the student to the administrative dynamics of the real world of work and trained to apply their knowledge to social life. At the same time, it allows the student to develop social capital through their contribution in public or non-governmental organizations.

#### **CISO5005 - Women: Www Based Research I.**

*Three credits. One hour of seminar, one hour of workshop and one hour of research per week.*

Research course on women in the labor market nowadays, using data banks accessible through the internet. August 14, 2001.

#### **CISO5015 - Www Research Techniques.**

*Three credits. One hour of seminar, one hour of workshop and one hour of research per week.*

Practical course on skills and research techniques in the internet web necessary to access social data banks around the world. August 14, 2001.

#### **CISO5016 - Www Research Techniques II.**

*Three credits. One hour of seminar, one hour of workshop and one hour of research per week.*

Practical course with asynchronous methodological elements to develop www research skills and techniques. Structured guided research assisted by telecommunicated computer networks that connect data banks globally. 16-01-02

#### **CISO5017 - Www Research Techniques III.**

*Three credits. One hour of seminar, one hour of workshop and one hour of research per week.*

Practical course with asynchronous methodological elements to develop www research skills and techniques. Structured guided research assisted by telecommunicated computer network that connect data banks globally. 16-01-02

#### **COOP3005 - History and Philosophy of the Cooperative Movement.**

*Three credits. Three hours of lecture per week.*

A global vision of the cooperative doctrine. the principles and cooperative methods established by the precursors of this movement, and analysis of the evolution up to the present. Studies the historical development of the cooperative movement as a social-economic system whose main objective is to obtain

the maximum level of fairness in the process of distribution of goods and services, substituting the lucrative spirit for service and self-help. This system is compared with others existing.

### **COOP3006 - Group Dynamics.**

*Three credits. Three hours of lecture per week.*

Diverse theories and interpretations of group conduct. Group dynamics seen as basis for the understanding of the structure and dynamism of small groups. Analysis of social interaction, individual motivation, group processes, objectives and goals of group pressures and regulations, functional differentiations, sociometric relationship and leadership. One group discussion will allow the student to put in practice the theories learned and to handle group situations in an effective manner. (c)

### **COOP3025 - Organization and Practice in Cooperative Movement.**

*Three credits. Three hours of lecture per week.*

Studies the performance of the cooperative doctrine through different types of cooperative associations. its organization and functioning is discussed and the incorporation of the cooperative principles and methods in the existing associations are analyzed. the cooperative movement is related to the social and economic impact in Puerto Rico and other countries. its possibilities as an alternative formula for the solution of economic problems is discussed.

### **COOP3035 - Education in Cooperatives.**

*Three credits. Three hours of lecture per week.*

Presents a discussion of what cooperative education is. Cooperative education is treated as an aspect of adult education. Special emphasis is given to the teaching-learning process. It presents the pedagogical, psychological and community organization principles to be taken into consideration when cooperative education programs are designed and conducted. the role of the cooperative education as a means for inducing change towards the understanding of the ideology of the cooperatives' movement as a basis for the cooperative action is discussed. Students are taught how to design a cooperative education program. Also, they are acquainted with the adult education programs that led to the diffusion of cooperatives. the adult education techniques and the resources available for cooperative education are presented. the present trends in cooperative education and their impact in the socio-economic system of the Puerto Rican society are discussed.

### **COOP3045 - Audiovisual Techniques.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

### **COOP3055 - Cooperatives and the School.**

*Three credits. Three hours of lecture per week.*

The mutual impact of education and cooperatives is thoroughly analyzed in terms of their social functions. the extent of impact of juvenile cooperatives and their educational values are analyzed. the activities, educational materials and applicable techniques to the teaching of cooperative education in schools are taken into consideration. Students are acquainted with the organization and functioning of educational consumer cooperatives, savings and credit, industrial production, marketing, recreational and mixed services cooperative enterprises.

### **COOP3075 - Analysis of Financial Statements.**

*Three credits. Three hours of lecture per week.*

Construction, analysis and interpretation of financial statements in the cooperative enterprise. Problems in income determination, measurement of income, and matching costs and revenues.



**COOP3095 - Farmer Cooperatives.**

*Three credits. Three hours of lecture per week Prerequisites: COOP 3005.*

An analysis of the organization and function of the farmer cooperatives in Puerto Rico. A study of the contribution of these organizations to the Puerto Rican economy and the most common problems of organization, financing and administration of these enterprises. the students will have the opportunity to study the development of this aspect of the cooperative movement in Puerto Rico, by means of field trips and visits to the farmer cooperatives in the island.

**COOP3115 - Consumers Cooperatives.**

*Three credits. Three hours of lecture per week.*

Structures and organizational approaches of consumer cooperatives are taken into consideration. the administrative policies of the directive bodies of such cooperative structures are examined. Based on acquired knowledge, students shall have the opportunity of evaluating the functional development of consumer cooperatives.

**COOP3125 - Management of Consumers Cooperatives.**

*Three credits. Three hours of lecture per week.*

Retain distribution and its functions in the economy will be analyzed as well as the general principles of administration ruling this field. the different types and organization of the distributive business, its structure and operation will be discussed. Special attention will be placed on the elements of the functions of buying and selling activities such as merchandise control and budget, pricing, retail sales promotion and operating activities. All theory presented will be focused from the point of view of the consumers' cooperative stores operating in Puerto Rico. the students will practice management techniques in different consumers' cooperatives and in cooperative supermarkets.

**COOP3135 - Legal Bases of Cooperatives.**

*Three credits. Three hours of lecture per week Prerequisites: COOP 3005.*

Will provide the student with the basic legal concepts which are necessary to equip him with all the pertinent facts to which he is subject as a member, director or employee of a cooperative in order to carry on legal relationships on behalf of the cooperative. While discussing relevant legal concepts, statutes and regulations which cover cooperatives in Puerto Rico are analyzed and compared with statutes and regulations which govern cooperatives in other countries. (c)

**COOP3145 - Management of Cooperatives Enterprises.**

*Three credits. Three hours of lecture per week.*

The basic functions of administration shall be considered and shared throughout the course systematically in order to acquaint the student with the basic techniques of the cooperative administrative task. This course covers every administrative area emphasizing the economics principles on which the administrator's decisions are based and their application to cooperative enterprises. Field work experience visits to different cooperative enterprises, and laboratory exercises are integrated in this course.

**COOP3155 - Insurance Cooperatives.**

*Three credits. Three hours of lecture per week.*

Discussion of the fundamental concepts of insurance and re-insurance. History and currents conditions of cooperative insurance in other countries and in Puerto Rico. Legal aspects, organizational factors, promotion elements, functioning and supervision of insurance cooperatives and their impact on our economy.

**COOP3165 - Travel Seminar of the Study of Cooperative Movement Abroad.**

*Three credits. Three hours of lecture per week Prerequisites: COOP 3005, 3025.*

A study trip to observe the most significant expressions of the cooperative movement in the foreign countries. It offers a direct experience through a six-week trip during the summer session. Throughout this trip the student shall be acquainted with the cooperative movement and leadership of these countries with the coaching advise of the professor in charge.

### **COOP3175 - Parliamentary Procedure.**

*Three credits. Three hours of lecture per week.*

Analysis of the basic concepts underlying parliamentary procedure and its application, with special emphasis on the creation of the constitution or set of regulations of an organization. Student will have the opportunity to see the processes involved at work by means of visits to deliberating bodies while in session.

### **COOP3255 - Community Organization and Leadership.**

*Three credits. Three hours of lecture per week.*

This course acquaints the student with the community as it relates to a cooperative relationship, its structure, and its social systems. the fundamental concepts of education, community, development and organization, and community and social action are considered. the objectives, principles and strategies of community development and organization are thoroughly discussed. Students are acquainted with the importance of studying the community, with emphasis in the diagnosis of its needs, problems, human resources, economics and institutional aspects of these processes. New approaches concerning leadership and its importance in the organization and development of the community are considered. the importance and need of community development and organization is emphasized as the basis for organizing cooperatives. (c)

### **COOP4000 - Self-management and Workers' Cooperatives.**

*Three credits. Three hours of lecture per week Prerequisites: COOP 3005, 3145.*

The study of workers' participation in the management of enterprises. Historical and conceptual overview of this experience. New forms of work organization, the planning of finance, economic performance, the distribution of earnings and the importance in organized labor, and cooperative enterprises. These are presented like a most perfect example of worker's participation within undertakings.

### **COOP4005 - Seminar: Problems of Cooperative Movement.**

*Three credits. Three hours of lecture per week Prerequisites: COOP 3005, 3025.*

Problems of cooperatives selected by the student themselves in consultation with the professor. Some of the problems to be analyzed and discussed are: membership relation, distribution of surplus, capitalization, management, taxes, government participation in the promotion of cooperatives and cooperative legislation. the student will be required to write an essay on the theme they select for study.

### **COOP4006 - Work-study Cooperatives Seminar.**

*Six credits. Prerequisites: SENIOR STUDENTS WITH SIX OR MORE*

Observation and practice in the field of cooperatives to senior students in the area of his individual interest. Students will have the opportunity to perform several practices according to their specific interests, which will include short periods of full-time paid jobs in private or public agencies. It pursues, among others, the enrichment of the theoretical knowledge with its practical application in the chosen area, and visualize, with the students experiences reverted back to the classroom, the possibilities for updating the correspondent curriculum, if necessary. Student will also have the opportunity to select the course according to the number of credits desired, the nature of work to be performed and the period of time to be dedicated in the observation and practice of the selected area.

**COOP4007 - Promotion, Public Relations, and Publicity in Cooperatives.**

*Three credits. Three hours of lecture per week Prerequisites: COOP 3005 Y/O COOP 3035.*

Analysis and study of concepts, practice, procedures, and techniques used in promotion, public relations and publicity to disseminate cooperative philosophy, its characteristics, organization and services to the Puerto Rican community. 19-08-96

**COOP4008 - Cooperative Movement in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Study of the history and development of the cooperative movement in Puerto Rico. the different phases of its development will be discussed, including the European influence in Puerto Rico cooperatives, the pioneers in the nineteenth and twentieth centuries, the stage of expansion during the years 1920-1945, the period of social and economic reform from 1940-1957, the stage of consolidation from 1957 to 1964, and the development on the following decades. 19-08-96

**COOP4015 - Seminar in Cooperative Management.**

*Three credits. Three hours of lecture per week.*

Analysis of a cooperative enterprise to determine the areas for improvement and correction. Every phase and break point of the business will be analyzed with comprehensive usage of questionnaires, charts, reports, and field testing. Necessary controls will be set up and analyzed.

**COOP4016 - Accounting.**

*for credits.*

Analysis of accounting principles used by cooperatives in Puerto Rico, with emphasis in the principles and practices of accounting applied to this type of organization. the student will learn and apply the general principles concepts and document of financial accounting to assure the quality of daily operations and management efficiency in the cooperative. 19-08-96

**COOP4025 - Work-study Cooperatives Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: SENIOR STUDENTS WITH SIX OR MORE*

Observation and practice in the field of cooperatives to senior students in the area of his individual interest. Students will have the opportunity to perform several practices according to their specific interests, which will include short periods of fulltime paid jobs in private or public agencies. It pursues, among others, the enrichment of the theoretical knowledge with its practical in the chosen area, and visualize, with the student's experiences reverted back to the classroom, the possibilities for updating the correspondent curriculum, if necessary. Students will also have the opportunity to select the course according to the number of credits desired, the nature of the work to be performed and the period of time to be dedicated in the observation and practice of the selected area.

**COOP4027 - Scientific Investigation in Cooperative Enterprises.**

*Three credits. Three hours of lecture per week Prerequisites: COOP 3005, 3025.*

Principles of scientific research as they apply to the analysis of cooperative enterprises in Puerto Rico and elsewhere. Students should develop proficiency in the use of research methods and techniques and apply them to the systematic analysis of cooperative enterprises.

**COOP5005 - Cooperative Philosophy and Organization.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122*

Course directed towards undergraduate and graduate students interested in cooperative methods of production and organization and their possible application in their professional careers. the course offers a discussion of the philosophy, legal framework and structures of cooperative enterprises in Puerto Rico

economy. Student will present research project concerning national and international examples. This course has both classroom and online versions.

### **COOP5007 - Associative Dimension of Cooperatives.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121-3122*

Study of the structure and management of cooperatives. the course deals critically with the conceptual and practical framework, that constitutes the associative nature of cooperative. It explains concepts such as self-managed group, types of groups, teamwork, decision-making, group communication and leadership's skills and relates them to the ethics of the cooperative movement. the course is a workshop where concepts are put into use in the frameworks of group dynamics. It is designed for both undergraduate and graduate students and graduate students and is offered in classroom and online versions. This course will be offered face-to-face, hybrid and online modalities.

### **COOP5008 - Entrepreneurial Dimension of Cooperatives.**

*3 credits. Three hours of lecture per week Prerequisites: COOP5005*

The course explores cooperatives as a form of business development. It relates this to the laws of cooperatives, discussing its philosophical, social economic, and legal conditions necessary to the development of a cooperative. the students within the framework of cooperative principles will create a cooperative business plan. The course is open to undergraduate students and its offered in classroom and online versions. This course will be offered face-to-face, hybrid and online modalities. New descriptions since august 2013

### **COOP5009 - Cooperative Studies Travel.**

*3 credits. Three hours of lecture per week Prerequisites: COOP5005*

This optional course is offered during summer sessions. It comprises a reflexive approach of the Puerto Rican cooperative movement compared with other countries. the course begins with sessions previous to the scheduled trip to study the most representative expressions of the cooperative movement in the country to be visited. During the trip the students will receive orientation from the cooperative institute's professor and from the cooperative movement's leaders of the visited country.

### **ECON3005 - Introduction to Economics.**

*Three credits. Three hours of lecture per week.*

Introduction to the principles and methodology of microeconomic and macroeconomic theories. Analysis of demand, supply and prices. An examination of market structures. Study of the following economic topic. Consumers' behavior, theory of the firm, income distribution, social accounting, keynesian theory, income, production and employment determination, monetary and fiscal policy and contemporary economic problems. (c) course face-to-face, hybrid and online modalities.

### **ECON3006 - Principles of Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

the methodology of the economic science, economic models, review of basic mathematical principles; and micro and macro-economic analyses.

### **ECON3021 - Principles of Economics I.**

*Three credits. Three hours of lecture per week.*

Fundamentals, scope, and methods of economic analysis. Demand and utility. Supply and costs. Price and production in perfect and imperfect markets. Economic structure and economic power. Income distribution. the law of comparative advantage and international trade. Alternative economic systems. (c) course face-to-face, hybrid and online modalities,

**ECON3022 - Principles of Economics II.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3021 OR CONCURRENTLY.*

National accounting. Keynesian theory. Income production and employment. Business cycles. Fiscal and monetary policy. Contemporary economic problems: growth and economic development, inflation and unemployment, pollution, and the quality of life, etc. This course will be offered face-to-face, hybrid and online modalities.

**ECON3027 - Analytical Tools for Economists.**

*Three credits. Three hours of lecture and two hours of laboratory per week.*

Students will develop skills in analytical tools for the study of economics. They include the use of theoretical models in economics, the role of mathematics in economics analysis, variables, functions, equations, time series, graph and resolving simultaneous equations systems, as well as the use of electronic spreadsheets in economic analysis. the course includes laboratory work, to practice in the use of analytical tools discussed.  
19-08-96

**ECON3031 - Statistical Methods I.**

*Three credits. Four hours of lecture per week Prerequisites: ECON 3005.*

A systematic development of modern statistical methods with reference to their application to various areas of research.

**ECON3032 - Statistical Methods II.**

*Three credits. Four hours of lecture per week Prerequisites: ECON 3005.*

A systematic development of modern statistical methods with reference to their application to various areas of research.

**ECON3035 - the Computer in Economic Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3021, 3022, 3031.*

To train the student in the use of computer with special emphasis on economic models. Students will create a data bank, evaluate the costs and benefits of alternative data bank structures, and will learn the use of SPSS-X for economic analysis.

**ECON3065 - Political Economy of Capitalism.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005 OR EQUIVALENT*

Study of the emergence and development of the capitalist mode of production analyzing the fundamental economic laws governing this system according to the Marxist paradigm.

**ECON3085 - Economic and Social Development of Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Analysis of the process of economic and social development of Puerto Rico by means of a dynamic approach. Within the theory of development, the following aspects will be considered: political set-up, human and physical resources, agriculture, the industrial sector technology, international trade, public policy and the interrelationship of these factors in the determination of the socio-economic reality of Puerto Rico. (c)

**ECON3115 - Consumer Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005 OR ECON 3021.*

Applies the most relevant theories, concepts and practical methodological tools to the economic analysis for consumer decision making, particularly those related to the optimal assignment of the family budget, including purchase of consumer goods as well as investment (productive and financial). Knowledge of

consumer protection legislation as well as government and non-governmental institutions related to it. 12-08-96

### **ECON3116 - Economics of Aging.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3021, ECON 3022 OR ECON 3005.*

One of the most difficult challenges facing the developed economies of the world is their aging population. In Puerto Rico and the United States this demographic change is and will continue to assert pressure on public and private entities related to health and retirement among others. This course is designed for an undergraduate student to learn about the economic situation of the elderly population and its impact on the country's macro economy. In this course, through classroom lectures, the textbook and additional readings the student will learn and analyze how the environment has changed for this group and what needs to be done to in terms of public policy. The student will investigate global demographic trends and changes in family structure. They will also evaluate issues such as retirement, government transfers, health, Medicare, and social security.

### **ECON4015 - Economic Development.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Natural, social, cultural, and political causes of underdevelopment. Development theories from the ancient Greeks, cameralists, mercantilists, classicists, to contemporaries - Schumpeter, Myrdal Rostow, Prebisch. Common markets: nature, history, tool of development. (c)

### **ECON4025 - Money and Banking.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Economic principles underlying the monetary and banking systems of modern society, the operation of these systems and their relations to business enterprises. Monetary functions and history. Monetary standards. The creation of money: government and bank money. Commercial banking, with special reference to commercial banking in Puerto Rico. Central banking, with special reference to the federal reserve system foreign trade and foreign exchange. The price level and the purchasing power of money. Post-war monetary problems and institutions. Relation between monetary and fiscal policy. 19-08-96

### **ECON4040 - Interdisciplinary Seminar of Political Economy of Corruption and Human Rights.**

*Three credits. Three hours of seminar per week Prerequisites: CISO 3121 AND CISO 3122.*

This seminar aims to promote the analysis and understanding of the phenomenon of corruption and to analyze its different definitions from a historical, theoretical, and empirical perspective. Particular attention will be paid to the ways of how corruption impacts human rights globally and in Puerto Rico. Approaches will be made mainly from the political economy but recognizing that corruption is a multidimensional and complex phenomenon that must be addressed in interdisciplinary ways. The various forms of corruption will be considered, especially those that have greatest impact on democratic systems, such as corporate financing of election campaigns, for example. The course may include an extramural participation component, such as: field visits, community service, and participatory research. This course can be offered in classroom, online or hybrid formats.

### **ECON4045 - Comparative Economics Systems.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Theory and practice of alternative systems of economic organization. Free enterprise and planned economies: historical origin, institutional structure, organization of production and exchange, distribution of income. Relationship of government to the economy under capitalism, communism, fascism and national socialism, and intensive analysis of the theoretical literature of each. (c)

**ECON4055 - History of Economic Thought.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Study of the development of the economic thought with special emphasis on the period from 1776 to the present. the classical school and its predecessors from the Greek to Adam Smith, the old and modern historical school. the Austrian school, the English school (Cambridge), the mathematical school and the new political economy. (c)

**ECON4065 - Public Finance and Fiscal Policy.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

An examination of various aspects of government finance, including budgets, public expenditures, tax policy and structure public debt and fiscal policy. the fundamental theories as well as the practical problems of administration will be considered. (c)

**ECON4080 - Introduction to Economic Growth Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4381, ECON 4382.*

The introduction to economic growth analysis course presents an overview of the available statistical information and the stylized facts of the economic indicators that are used to analyze the factors that influence an economy to grow. in addition, the basic mode's that present the main determinants of economic growth are studied. Growth will be analyzed both exogenously and endogenously.

**ECON4085 - International Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Historical development of the theory of international trade relations; the neoclassical theory and its modern developments; the theory of equilibrium; the monetary mechanism of trade under various currency systems (gold, silver, and paper). International monetary problems; fixed vs. Flexible exchange rates, trade barriers. the balance of payments and the national income. Recent and contemporary international monetary arrangements; implications for Puerto Rico.

**ECON4087 - International Trade.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005 OR ECON 3021.*

The pure theory of international trade, including the classical models of comparative and absolute advantages; the neoclassical general equilibrium model; and the alternative visions such as imperfect competition models, models of strategic competition and theories of unequal exchange. Review of the evolution of international trade since the 19th century, with emphasis on current trends in international trade relations, according to the theories discussed.

**ECON4095 - the Evolution of Modern Capitalism.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

A history of capitalism from the first industrial revolution to the present. Emphasis on the differences that separate its development in the first and second halves of the nineteenth century.

**ECON4105 - Seminar: Fundamentals Problems of Economics Structure.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Analysis of the economic structure typical of underdeveloped economies and of the structural and institutional changes associated with the process of economic growth, with special reference to the Puerto Rico economy. (c)

**ECON4115 - Seminar: Contemporary Economic Thought.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005 AND ECON 4055.*

Analysis of recent development of economic thought as seen through current books, magazines, articles, and speeches reflecting economic opinion or thinking.

### **ECON4121 - Mathematical Foundations of Economics I.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

The aim of the course is to familiarize the students with mathematical tools emphasizing their use in modern economic analysis. It reviews the basic concepts of mathematical functions of all types, derivatives and differentials, integral and determinants, always emphasizing their economic application. It deals extensively with cost functions, demand and supply analysis (static and dynamic) monopoly and duopoly; production, functions, elasticities of substitutions between factors of production; capital and interest theory; simple linear programming and its application to economic planning and resource allocation; input-output technique and its economic and technical meaning; growth theory; analysis of various economic systems (Keynesian, classical, Marxian) via the use of determinants and utility functions. Course face-to-face, hybrid and online modalities.

### **ECON4122 - Mathematical Foundations of Economics II.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

The aim of the course is to familiarize the students with mathematical tools emphasizing their use in modern economic analysis. It reviews the basic concepts of mathematical functions of all types, derivatives and differentials, integral and determinants, always emphasizing their economics application. It deals extensively with cost functions, demand and supply analysis (static and dynamic) monopoly and duopoly; production, functions, elasticities of substitutions between factors of production; capital and interest theory; simple linear programming and its application to economic planning and resource allocation; input-output technique and its economic and technical meaning; growth theory; analysis of various economic systems (Keynesian, classical, Marxian) via the use of determinants and utility functions. Course face-to-face, hybrid and online modalities.

### **ECON4125 - Managerial Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4381.*

Pretends to cover some special theoretical aspects of microeconomic theory such as: 1) the concept of risk and uncertainty, 2) the nature and measurement of profit and 3) other additional aspects of price determination. It also includes empirical studies and the methodology used in the following areas: 1) demand analysis; 2) cost analysis and 3) capital cost and capital budgeting analysis.

### **ECON4135 - Economics of Welfare.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

An introduction to welfare maximization and how it is attained in a free enterprise economy. Externalities and public utilities will be covered.

### **ECON4145 - Agricultural Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Application of economic principles to the problems of agriculture; economic structure and aspects of Puerto Rican agriculture; analysis of demand and supply, agricultural production, and some aspects of agricultural planning.

### **ECON4155 - Economic History of Puerto Rico in the Twentieth Century.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4382.*

The course will cover the contemporary period emphasizing the institutional changes occurred in the economy.



**ECON4165 - Economic Evaluation of Public Programs.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Introduction to the theory of public investment and the application of cost-benefit analysis in the evaluation of governmental projects. Subjects such as the purpose of techniques, intertemporal valuation of costs and benefits, shadow-prices, investment criteria, relevant constraints, etc., will be treated in the course.

**ECON4166 - the Economy of Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

The economic problems of Puerto Rico through the analysis of the characteristics and trends of our economy: economic geography and economic history; role of agriculture and of specific crops land-tenure; population and labor force; Puerto Rico-United States economic relations; public revenues and expenditures; banking and credit facilities; transportation and communications; net income, gross product, and balance of external payments; possibilities of industrial developments, economics effects of world war ii; public economic policy.

**ECON4175 - Accounting for Economists.**

*Three credits. Three hours of lecture per week.*

Fundamental accounting principles underlying the preparation of financial statements and the application of accounting in the various fields of economics.

**ECON4185 - Latin American Economic Problems and Trends.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Survey of trends of Latin American economy, with emphasis on the factors, problems and policies producing and impeding growth. Among topics to be discussed are: evolution of the Latin American economy in terms of basic institutions and international influences; standards of living; problems of mono-economies, land tenure systems; problems of improving agricultural methods; foreign investments; balance of payments; industrialization and related problems.

**ECON4195 - Economics Legislation.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Analysis of the function of the state in a capitalistic setting by means of the study of some of the outstanding economic legislation of Puerto Rico. An analysis will be made of the specific problems stated or intended to be solved by the legislator, of the delegation of powers granted to the existing administrative agencies, or to an agency established for the purpose of carrying out the objectives of the law, and of the judicial interpretation of such a law.

**ECON4205 - Business Cycles.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

An exposition of the nature and causes of the business cycles. Economic equilibrium and conflicting forces in the system. Business cycle theories: pure monetary theory; the over-investment theory; under-consumption theories; psychological theories; harvest theories. Control of business cycles: private and public methods of control.

**ECON4215 - Caribbean Economic Problems and Trends.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005*

Analysis of present institutions and conditions contributing to the economic stagnation or growth in selected countries in the Caribbean. Significance of plantation economics, specialization, and international trade. Recent trends in general policy and economic structure and concurrent socio-economic problems.

**ECON4225 - Labor Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

The economics of wages, industrial relations, labor relations and labor legislation, labor attitudes, organization, and tactics. History of the labor movement. Industrial conflicts and solutions. Emphasis on labor conditions in Puerto Rico and their relations to problems on population, economic resources, concentration of ownership, education and the standard of living and labor organizations, their developments, strength and tactics.

**ECON4235 - National Income.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4382.*

The concept of national income in its relationship with the basic accounts on individual businesses, government, and other consumption units. the paradox of saving and investment. the utility of the estimates of national and sectorial income for the analysis of development problems, especially in underdeveloped areas; theoretical considerations involved.

**ECON4265 - Input-output Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4121-4122*

The study of the inter-industry relations, in general terms and empirical applications to Puerto Rico, and static and dynamic input-output models.

**ECON4271 - Applied Economic Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005. SEMINAR FOR FOURTH YEAR STUDENTS.*

Application of the tools of economic analysis to problems in public policy; influence of policy problems on the development of economic theory.

**ECON4272 - Applied Economic Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005. SEMINAR FOR FOURTH YEAR STUDENTS.*

Application of the tools of economic analysis to problems in public policy; influence of policy problems on the development of economic theory.

**ECON4285 - the Economics of Education.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Analysis of some books and articles in relation to the economics of education. Special emphasis will be given to the following topics: the concept of human capital, planification of education; contribution to economic development; international comparative analysis of income, product, and education; econometric models; the economics of welfare and the financing of education and the productivity and efficiency in education.

**ECON4295 - Economic Thought of Ricardo and Marx.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005*

A study of the principles of political economy of Ricardo. Theory of value and rent. the integrated thought of Karl Marx. Ideological background of the Marxist thought. Economic interpretation of history and class struggle from Marx writing of 1844 to the capital's economics analysis and theory of that work.

**ECON4305 - Economic Analysis and Public Policy.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Study fundamental economic principles and models and analyses of their uses and limitations in the program

of public economic policy; relation of government to private economics sector, relevant economic theories and models (classical, neo-classical, Keynesian and post-Keynesian). Analysis of the fundamental theories and methods of public economics policy, agriculture, commerce, industry, economic development and public finance.

**ECON4315 - Seminar on Labor Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4225.*

Critical analysis of the problems of labor economics; labor factors in the economics processes of production, distribution, and consumption with special reference to Puerto Rico. Emphasis on specific investigative empirical studies such as measurement of unemployment, the relationship or ratio between the volume of employment and increase or decrease of the wage level.

**ECON4326 - Collective Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4381.*

An economics analysis of different institutional organizations where the demand and supply of public goods are specified. Special emphasis will be devoted to the study of the economic effects of the institutional arrangement of representative democracy.

**ECON4335 - Industrial Organization.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4382.*

The structure and organization of industry and its markets in modern economies, the system for wealth and income distribution, the problem of industrial location, analysis of policies to deal with economic power.

**ECON4345 - Seminar: Current Economics Events and Issues.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005 OR PERMISSION OF THE PROFESSOR.*

Analysis of contemporary economic events and issues, as they are brought to the student's attention by the daily press and other communication media, in the light of economic philosophy, theory, historic precedents and the history of economic doctrines explaining them.

**ECON4355 - Introduction to Econometrics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 4121-4122*

Recapitulation of elements of calculus and integral calculus; econometric models; static and dynamic models; problems of uncertainty, statistical inference; aspects of model construction; econometrics and economic policy.

**ECON4365 - Economic of Human Resources.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005-3006*

Problems related to the growth of the population, migratory movements, changes in the occupational structure, human capital, formation related to educational health, productivity and labor market.

**ECON4376 - Monetary Theory and Policy.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005-4382.*

Analysis of different monetary theory from classical to modern and its application to monetary policy.

**ECON4381 - Microeconomics Analysis - Intermediate.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Methodology and basic concepts; supply and demand functions; elasticity; total marginal and average relationship; types and conditions of equilibrium; etc. Theory of the firm, production function; complementary and substitution ability; marginal productivity and returns to factors; maximization of profit.

Theory of the household; formal similarity with theory of the firm; consumer's surplus; maximization of utility. Theory of market relationships; competition, oligopoly, monopoly, and monopolistic competition; welfare economics. (c)

**ECON4382 - Macroeconomics Analysis - Intermediate.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3005.*

Study of the fundamental principles of macroeconomic theory, its methodology and the aggregative basic concepts. Special reference to the analysis of economic development. Study of basic static economic models, classical and Keynesian, and of the classical, neoclassical, and neo-Keynesian models of economic growth.

**ECON4385 - Open Economies: International Payments and Macroeconomic Policy.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: ECON 4382 OR ITS EQUIVALENT.*

The theory of international payments and its relation to exchange rates and macroeconomic policy. Macroeconomic policy with fixed and flexible exchange rates. International coordination of macroeconomic policies. the international payments system from the gold standard of the 19th century to the dollar standard in the Bretton Woods system. Analysis of problems and trends in the post Bretton woods system.

**ECON4396 - Interdisciplinary Seminar: Economic Development in Latin America and the Caribbean.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: CISO3121-3122 /ECON3005*

Interdisciplinary seminar on the relationship between the history of capitalism and the emergence of economic theories, with emphasis on the evolution of the ideas of development, especially in Latin America and the Caribbean. Readings and discussion about development as a phenomenon in the region, including the diverse theories and experiences produced up to the present time and culminating with a research term paper by each student applying a theory to the analysis of a specific country.

**ECON4415 - Seminar: The Restructuring of International Economy.**

*Three credits. Three hours of seminar per week Prerequisites: PERMISSION OF THE PROFESSOR.*

Analysis of the problems and trends in the international economy with special emphasis on the institutional changes arising from the crisis of the postwar economic system and the collapse of the soviet bloc.

**ECON4416 - Seminar: Economics Research Methods.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3032.*

Studies economics research methods such as methodologies commonly used in economics, carrying out literature reviews and critiques, and hypothesis development. It teaches economic literature search and reference sources, data sources, and other research resources and how to access them. the student will develop a research project showing understanding of economic research. January 15, 2002.

**ECON5005 - Seminar on Urban Economics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 3031-3032 AND 4381.*

Study of methods of economic analysis for urban development, where problems associated with the urban economic milieu will be discussed. Among the topics to be analyzed are: urban economic development, urban housing, urban transportation, environmental quality in the cities, and the financing of local governments. Students will apply the tools of economic analysis to the formal study of some urban economic phenomenon.

**ECON5010 - Health Economics.**

*Three credits. Three hours of discussion per week Prerequisites: ECON 4381.*

Analysis of health related and medical care delivery problems. Application of theoretical and empirical tools of economic to these problems including such as welfare economics of health as a commodity, hospitals and the non-profit sector, human capital and medical man- power, the role of government, law and medical malpractice, and innovations in medicine. 19-08-96

### **GEOG3007 - Geography of the Caribbean.**

*Three credits. Three hours of lecture per week.*

Study of the physical, cultural, economic, political and social geography of the Caribbean region. It also studies the geographic characteristics of each individual country. Special emphasis is given to those historical aspects and contemporary variables that have affected the geographical evolution of the region besides analyzing the cultural diversity and the economic political situation of the area.

### **GEOG3100 - Elements of Geography.**

*Three credits. Three hours of lecture per week.*

Synoptic introductory geography course that conceptually integrates the global physical environment (atmosphere, lithosphere, hydrosphere, and biosphere) as well as human systems (social, cultural, economic, and political). This course substitutes GEOG 3155.

### **GEOG3150 - Human Geography.**

*Three credits. Three hours of lecture per week*

Three credits. Three hours of lecture per week

### **GEOG3160 - Geography of Asia.**

*Three credits. Three hours of lecture per week Prerequisites: CISO 3121-3122.*

Study and discussion of the physical, environmental, and human geography of Asia, as well as the individual study of the countries that comprise the region. This course was previously GEOG 3005.

### **GEOG3165 - Geography of Puerto Rico.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121-3122.*

Study and discussion of the physical, environmental, and human geography of Puerto Rico, its land use and site and situation in the modern world.

### **GEOG3170 - Geography of Africa.**

*Three credits. Three hours of lecture per week Prerequisites: CISO 3121-3122.*

Study and discussion of the physical, environmental, and human geography of Africa, as well as the individual study of the countries that comprise the region. This course was previously GEOG 3015.

### **GEOG3180 - Geography of the United States.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121-3122.*

Study and geographic analysis of the United States of America. It emphasizes the regional variations of the physical features, economic, population and other socio-cultural attributes. the course presents a comprehensive view of the socio-economic and environmental issues and its integration within the global economic order.

### **GEOG3200 - Introduction to Physical Geography.**

*Three credits. Two hours of lecture and one hour of laboratory per week Prerequisites: GEOG 3155.*

Careful study of the most important elements in the natural environment what they are, where they occur and the principles and processes involved in their development, with emphasis in their interaction and influence on man's cultural and economic development. It was previously GEOG 4145.

**GEOG3225 - Geography of South America.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121-3122.*

Study and discussion of the physical, environmental, and human geography of south America as well as the individual study of the countries that comprise the region.

**GEOG3250 - Introduction to Quantitative Methods in Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG-3155 and MATH-3016.*

An introduction to scientific and statistical analysis applied to geography. Emphasis will be given on inferential and descriptive elements in its spatial context. It was previously GEOG 3055.

**GEOG3275 - Principles of Sciences.**

*Three credits. Three hours of lecture per week.*

Application of basic chemical and physical principles to physio-geographical disciplines.

**GEOG3285 - Elements of Cartography.**

*Three credits. Three hours of lecture per week Prerequisites: CISO 3121-3122 and GEOG-3155.*

Overview course on the basic elements of cartography, mostly for geography students. This is a required course for more advanced courses on cartography, geographic information systems and remote sensing. It includes a brief history of cartography, the features of the terrestrial globe and the basic and theoretical concepts with respect to the types of maps, coordinate systems, projections, distortions, scales and the map as research and instrument of communication. Lectures, discussions, and practical work with maps.

**GEOG3325 - Geography of the Caribbean and Central America.**

*Three credits. Three hours of lecture per week Prerequisites: CISO 3121, 3122.*

Study and discussion of the physical, environmental, and human geography of the Caribbean and central America, as well as the individual study of the countries that comprise.

**GEOG3350 - Middle East Geography.**

*Three credits. Three hours of lecture per week Prerequisites: CISO-3121-3122.*

Study and discussion of the physical, environmental, and human geography of the middle east as well as the individual study of the countries that comprise the region. It was previously GEO 4175.

**GEOG3400 - Introduction to Biogeography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

Introduction to the geographic study of historical biodiversity with emphasis on Cenozoic fauna and flora. Focus on human intervention in globalization and management of living things. the case of the Antilles in neotropical context will be emphasized. It was previously GEO 3006.

**GEOG3425 - Computers in Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

Introduction to the computer in terms of its operating system, generic computer programs for writing, statistical analysis, graphics, and cartography in geography. It was previously GEO 4195.

**GEOG3450 - Introduction to Geology and its Geographical Application.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG-3155.*

Elements of general geology and its applications in physical and human geography. It was previously GEO 3205.

**GEOG3475 - Introduction to Geographical Information Systems.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155 ELEMENTS OF GEOGRAPHY.*

This course introduces to the students of the department of geography and related departments to the basic principles of the geographic information systems (GIS). Through the theoretical discussion and exercises of practice, will study the basic principles of geodesy needed to the adequate management of the spatial data, the vector and matrix structures, as well as the techniques for the entrance, manipulation, storage, retrieval, analysis and output of data to develop on the students the required skills to make diverse types of analysis using a gis.

**GEOG3525 - Human Ecology.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG-3155.*

An approach to the principal problems leading with the differentiation of resources and how they affect human conglomerates or groups. Este curso antes era geog 3145.

**GEOG3585 - Environmental Conservation.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

Conservation of environmental quality and resources with special relevance to Puerto Rico. It was previously GEO 3085.

**GEOG3600 - Geography of Population.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155*

Quantitative and qualitative

**GEOG3635 - Cultural Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG-3155.*

Systematic cultural geography, emphasizing both technical and philosophical aspects; general and comparative scope, with emphasis on human evolution, man impact upon environment and geographical research techniques useful for the interpretation of the cultural landscape. Previously GEO 3265.

**GEOG3650 - Urban Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG3155*

Three credits. Three hours of lecture per week Prerequisites: GEOG3155

**GEOG3700 - Geography of Religion.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG-3155, ELEMENTS OF GEOGRAPHY.*

Course mostly for geography students about the study of the geographical distribution of religions and its characteristics. This is an elective course for geography. Attention will be given to the analysis of dispersion patterns of religious groups and its variables. Lectures, discussions, and practical work with maps.

**GEOG3705 - Cartography, Air Photo Interpretation and Map Design.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG-3155.*

This course aims at preparing the student to depict areal data on maps, to select the most appropriate methods of data representation and the clearest design of maps. It emphasizes the manners by which the student interprets maps and air photographs pertaining to geographic phenomena. (c) este curso antes era geog 3105.

**GEOG3725 - Economic Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG3155*

Study and analysis of factors and processes affecting the spatial organization of economic activities based on

classical and modern location theories.

**GEOG3750 - Industrial Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

Study and analysis of evolution of industrial activities at global scale. Focus in spatial models and processes responsible of the existing patterns using the modern information systems. Este curso antes era geog 3025.

**GEOG3755 - Political Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG3155*

Analysis of the geographic basis of the state, including the structure of geopolitical patterns and ideas. Emphasis will be placed on the qualitative and quantitative aspects of the spatial patterns resulting from various political behavioral conducts on the local, intra-regional and global scales. This course was GEOG 3175.

**GEOG3800 - Marine Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG-3155.*

A study of geomorphologic and physical processes acting on the ocean. the main goal is to perform both sedimentologic and oceanographic evaluations of costal ecosystems such as beaches, estuaries, wetlands, and platform environment, among others. the human impact of these ecosystems will also be evaluated. Previously GEOG 4006.

**GEOG3825 - Thematic Cartography.**

*Three credits. Three hours of laboratory per week Prerequisites: GEOG-3155 and GEOG-3055.*

Advanced cartography emphasizing thematic mapping. Previously GEOG 3125.

**GEOG4005 - Introduction to Planning.**

*Three credits. Three hours of lecture per week*

Elements of urban and regional planning.

**GEOG4007 - Transportation Geography.**

*3 credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

Analytical spatial study and evolution of the aerial, maritime, and land transportation modes and its relationship with the physical form and economic structure of major urban areas. This course presents a comprehensive analysis of the transportation modes and its impact on the geographical space.

**GEOG4015 - Independent Studies.**

*3 credits. Could be repeat, maximum of six times.*

Independent study e. G. Research reading, etc. in which the student works under professorial supervision. Students may register for this course several semesters.

**GEOG4016 - Introduction to Remote Sensing and its Geographic Applications.**

*3 credits. Three hours of lecture per week Prerequisites: GEOG 3155, GEOG 3055.*

Theoretical and practical introduction to a remote sensing and its geographic applications: human and physical.

**GEOG4055 - Photointerpretation of Air Pictures and Photogrammetry.**

*3 credits. One hour of lecture and three of laboratory work per week Prerequisites: GEOG 3155, GEOG 3055.*

Photointerpretation. Analysis and familiarization with photogrammetry equipment.



**GEOG4080 - Intermediate Geographic Information Systems.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG3100 GEOG3475*

The course will develop the fundamental knowledge of the various methods of spatial analysis included in the geographic information systems (gis) and their applicability in geographical studies. In addition, this course expands the concepts presented in the previous course, with emphasis on the design, creation and automation of geospatial analysis flows: vector and raster analysis and geoprocessing; models of spatial geoprocessing (model builder); spatial statistics: spatial interpolation, analysis of topographic surfaces; and geocoding. During the course will be integrating theoretical concepts with assignments and practical exercises through the use of specialized software.

**GEOG4081 - Advanced Geographic Information Systems.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG3100, GEOG3475, GEOG4080*

This course is aimed at the application of advanced methods of spatial analysis using geographic information systems (gis). These methods, unlike those developed in the basic and intermediate courses, are directed to the students to manage data, processes, and spatial relationship in a more realistic way. The course will cover several advanced methods of gis such as 3d analysis, hydrological modeling, network analysis, spatial patterns, python programming and web mapping. In addition, during the course will be integrating theoretical concepts with assignments and practical exercises through the use of specialized software. Finally, students will solve real space problems by applying their skills, using maps, exercises and projects.

**GEOG4110 - Physical Geography Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

A specialized study of Puerto Rican orography, meteorology, climatology, hydrology, natural resources, soils, and flora and fauna in terms of their respective social magnitudes and degrees of importance. Antes era geog 3215.

**GEOG4125 - Geomorphology.**

*3 credits. Three hours of lecture and one of laboratory work per week Prerequisites: GEOG3155*

An examination of landforms on the face of the earth in terms of their age structure, and major processes underlying their formation. Emphasis will be placed on processes, including man as geomorphic agent and the relationship between certain landforms and types of land use. The physical landforms in Puerto Rico will also be emphasized.

**GEOG4135 - Resources: Evaluation, Management and Conservation.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

This course aims at the objective assessment of physical, biotic, and human resources to cultivate the awareness of the use and misuse of them by man. Economic and aesthetic qualities of resources are emphasized along with methods of resource management and ways or resource conservation.

**GEOG4155 - Medical Geography.**

*3 credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

An analysis of the essential of medical geography and a global classification of diseases in their environmental contexts. Applications to the planning of health services would be emphasized.

**GEOG4160 - Introduction to Climatology.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG3100*

The course offers a general introduction to climatology with an emphasis on atmospheric weather drivers, climate and the processes that rule the climate system, in particular: general patterns, atmospheric dynamics and the ocean at both a global and a local scale. It resorts to diverse focuses in order to comprehend and

identify the behavior of recent and long-term climate in distinct parts of the world. It also encompasses important aspects of modern climatology like the study of global teleconnections (e. G. Ocean-atmosphere phenomenon el niño). Health and climate, climate risks, and climate change, in addition, the course also incorporates basic knowledge of climate determining factors and how applied climatology can be used to human activities, e. G. Land use planning and management. the course is designed to provide the students with a major comprehension and appreciation of climatology as a fundamental discipline within physical geography.

**GEOG4165 - Applied Climatology.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

Analysis of climates and their relations with other environmental elements and all aspects of human activities and behavior. Climates of the past and theories of climatic change will be emphasized.

**GEOG4205 - Geography and Law.**

*3 credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

Study of the fundamental aspects of law, as well as those areas of law that are related to geography. Also discusses the legal systems of the world and the geographical foundation of legal doctrines.

**GEOG4375 - Geography of Karst.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

An authoritative examination of the processes through which karst topography landforms develop and have their origin. Puerto Rico's karst topography will be studied both theoretically and in the field. (c) Previously GEOG 4075.

**GEOG4500 - History and Philosophy of Geography.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG-3155,3055.*

Study of geography as an academic discipline and its place among sciences. Attention will be given to the origins and evolution of the discipline and to the most recent trends and paradigms in geographical thought. Previously GEOG 3035.

**GEOG4550 - Methods in Geographic Investigation.**

*Three credits. Three hours of lecture and two hours of laboratory work per week Prerequisites: GEOG-3055.*

This course provides the student with the essential tools for investigation in geography with its own methodology. Previously GEOG 3065.

**GEOG5100 - Geography of Natural and Anthropogenic Risk.**

*Three credits. Three hours of lecture per week Prerequisites: GEOG 3155.*

A systematic study of natural and man-made risks. the course includes both theoretical and practical sections. A risk plan will be prepared as a part of the requirement of the course. Previously GEOG 4185.

**PSIC3003 - Introduction to General Psychology.**

*4 credits. Two hours of lecture and two hours of discussion per week.*

The course is a reflection on general psychology as a scientific discipline which has resulted from social historical processes. It examines its disciplinary frontiers, the biological and cultural foundations that constitute the human subject, fundamental areas, and controversies. Among them the following are explored: perception, development of human cognition, memory, learning, language, and the social demands made to psychology. (c) this course will be offered face-to-face, hybrid and online modalities.

**PSIC3005 - General Psychology.**

*3 credits. Prerequisites: FOR STUDENTS OF THE COLLEGE OF NATURAL SCIENCES AND BUSINESS ADMINISTRATION. (COMPENDIUM)*

An introduction to scientific psychology, its range and limits, the biological and cultural basic constituting the human subject and selected topics in general psychology: perception, emotion, cognition, learning, memory, language and a reflection on the social functions of psychology. (c) course can be offered face to face, hybrid or online.

### **PSIC3006 - Social Psychology.**

*3 credits. Three hours of lecture per week Prerequisites: 3003 OR 3005.*

A psychological approach to social life from the point of view of the individual. Emphasis on the critical analysis of the relation between culture and personality, language, suggestion, imitation, attitudes, stereotype, public opinion, propaganda, rumors, fashions and facts, and leadership. Consideration is given to the psychology of institutions and social conflicts. (c) face-to-face, hybrid and online modalities. Effective august 2021.

### **PSIC3015 - Theories of Personality.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3115*

The course will examine the ways in which the personality as psychological category has been constructed considering some of the dominant approaches within psychology mainstream. It will critically examine the epistemological foundations of personality theories. It will examine if some theoretical propositions, such as: psychoanalysis, social learning theory and humanist, develop and explicit personality theory. It will examine how the personality category was constructed as coherent and related to biological determinants and how in contemporary theories it is proposed as socially and historically produced, flexible and fluid.

### **PSIC3016 - Psychopathology.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

Pathological reactions in feeble-minded, neurotics and psychotics. Discussion of research methods and theories about abnormal conduct. Visit to local institutions for the observation of clinical cases. (c)

### **PSIC3017 - Measurement of Personality.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

A survey of the techniques for measuring adjustment, sociability intelligence, attitudes, emotional stability status of the projective techniques, questionnaires, rating scales, etc. Training is given in the administration and interpretation of tests.

### **PSIC3025 - Human Development.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

Study of human development from conception to death. Particular emphasis will be given to interpersonal, cognitive and motivational processes. Learning cognitive development and psychodynamic theories will provide the theoretical and empirical reference for the study of human development. (c) course can be offered face to face, hybrid or online

### **PSIC3026 - Development Psychology II: Adult Stages and Aging.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3005 OR 3005.*

The course intends to offer a comprehensive view of adult life and the process of aging from a socio-psychological perspective. Emphasis will be on the later stages of life. Since August 2013.

### **PSIC3046 - History of Psychology.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

A comparative study of the theories methods and concepts of psychology. Emphasis on newer trends and recent developments. Will also study the works and thoughts of psychologist representative of different schools such as: Aristotle, Wundt, and Freud. Course can be offered face to face, hybrid or online.

**PSIC3048 - Group Dynamics.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

Study of the structure and function of groups, interaction within groups and group leadership. Attention will be given to important theoretical and methodological contributions achieved in this field.

**PSIC3049 - Humanistic Psychology.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

An examination of the outstanding topics covered by contemporary thinkers in the application of past and present experimentation to concerns relevant to modern man. Lectures, reports, and applicable research to give students a fresh look at the humanistic aspect of the study.

**PSIC3055 - Political Psychology.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

The application of psychological principles to political phenomena. Since August 2013.

**PSIC3057 - Introduction to Test Construction.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005, CIPO 3011.*

Elementary principles of test construction including job analysis, test design, item construction, reliability, and validity.

**PSIC3058 - the Psychology of Creative Expression.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 3005 OR 3115.*

Analysis and critical study of the concept of creative expression in the arts and in the applied sciences (advertising, business) from the psycho- analytic, existentialist and behaviorist viewpoint.

**PSIC3059 - Psychology of the Religious Phenomenon.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3006.*

The course will explore the nature of the religious phenomenon from a psychological viewpoint. An examination of the history of the psychology of religion and its methodology will lead to the exploration of two tendencies: religion as human alienation and the positive power of religion in the human development. Within this general frame of reference, the student will have the opportunity to analyze the dynamic of the religious phenomenon within the Puerto Rican personality.

**PSIC3065 - the Psychology of Motivation.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

The course will explore the nature and scope of several major research areas in the study of human motivation, focusing upon the problems and issues involved in the structure of motivation theory. Selected research papers will be critically discussed and evaluated.

**PSIC3066 - Interviewing Techniques.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

The course aims to familiarize the student and introduce them to the different information gathering techniques and individual and group interviewing techniques.

**PSIC3067 - Introduction to Community Psychology.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005, 3006.*

The course intends to offer the basic assumption on history and data related to the field of community psychology. (c)

**PSIC3068 - Psychosocial Theories of Drug Addiction.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

A detailed analysis of the major psychosocial theories of drug abuse. Emphasis will be given to the task of examining the utility of these theoretical frameworks to enhance the understanding of the problems of the addict in Puerto Rico. the consequences and implications of each theory for the psychologist as a helping professional will be discussed.

**PSIC3076 - Psychopharmacological and Neurophysiological Aspects of Drug Use and Abuse.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

The present course is an interdisciplinary one in which the fields of neurobiology, psychology and medicine are integrated in order to provide the student with a multiple approach to the different etiologies of drug addiction. the psychopharmacological and neurophysiological basis of drug action within the nervous system and its behavioral effect will be discussed in detailed. Also, a historical perspective of drug use and abuse will be presented. Finally, recent treatment alternatives for drug dependence will be discussed.

**PSIC3077 - Counseling with Drug Addicts I.**

*2 credits. Three hours of lecture per week Prerequisites: PSIC 3068.*

The course will cover the conceptualization of the helping relationship from multiple perspective and the development of basic counseling skills with drug addicts.

**PSIC3078 - Laboratory in Counseling for Drug Abuse.**

*One credits. Two hours of laboratory work per week Prerequisites: CONCURRENTLY WITH PSYC 3077.*

Laboratory that will provide practicum experience in the implementation of specific counseling skills with drug addicts.

**PSIC3079 - Practicum in Counseling with Drug Addicts.**

*Three credits. Eight hours of practice and three of supervision per week Prerequisites: PSYC 3077 AND 3078.*

This course is geared towards providing a follow up and amplification of the fundamental skills of the art and science of individual counseling with drug addicts in a real treatment setting. the emphasis will be with clients referred to counseling because of drug use. There will be three hours of supervision divided in two parts: in the first part the student will present cases for which there will be conceptual discussion; in the second part there will be individual supervision. in addition to the three hours of supervision, the students will give eight hours of practice in a center or agency which give treatment to drug addicts.

**PSIC3088 - Psychological Analysis of Social and Cultural Changes in Puerto Rico.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005, 3006, SOCI 3245.*

Sociocultural change in the Puerto Rican milieu examined from a psychological viewpoint. Consideration of the basic interaction processes involved relating them to social learning, motivation and perception and emphasizing changes in values, attitudes, expectations, and the role of communication in social change.

**PSIC3095 - Psychosocial Analysis in the Puerto Rican Short Story.**

*Three credits. Three hours of lecture per week Prerequisites: SIX*

The study of the Puerto Rican short story, seen as a product of the mutual interaction of the artist and his historic and sociocultural environment. Contribution of the theories and methods of psycholinguistics and of studies on culture and personality.

**PSIC3097 - Controversial Issues in Contemporary Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: NINE*

Critical discussion of controversial issues in contemporary psychological thinking. the following topics will be included: learning, creativity, motivation, personality, the psychological ethical conception of man and others. (c)

**PSIC3098 - Psychology of Human Learning.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005, 3025.*

Analysis of theories and findings related to the learning process of the human being. Emphasis will be given to child's cognitive development and its relationship with learning. Special emphasis will be given to the contributions of Ausubel, Bruner, Gagne, Piaget and Freire. Approaches and theories about learning will be stressed. New description since August 2013.

**PSIC3105 - Analysis of Classical Texts in Psychology.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC3003 O 3005, 3015*

The course will focus on the analysis of articles and selections from the works of prominent psychologists from the early periods in the development of the discipline until the present time. the orientation of each author will be examined. the course will also aim at an integration of the knowledge acquired.

**PSIC3106 - Psychobiological Basis of the Emotions.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 4025 AND 4026.*

Analysis and critical discussion of recent studies in the field of emotional behavior from a psychophysiological perspective. the course includes the discussion of the biological basis of emotions such as aggression, pleasure, and pain, among others.

**PSIC3125 - Research Practicum.**

*3 credits. Three hours of lecture per week*

Student will participate in all phases of a faculty members research project. This will include reviewing literature, instrument design, data, collection and analysis and report writing.

**PSIC3126 - Advanced Research Practicum.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3125.*

Participation in the advanced phases of a research project of a faculty member in charge of a research team. the course may be repeated once.

**PSIC4001 - Research Methodology in Psychology I.**

*3 credits. Three hours of lecture and two of laboratory per week Prerequisites: PSIC3003 AND CISO3155.*

Discussion and role of the notion of paradigm in scientific research and its meaning on the development of knowledge in psychology. the structure and process of psychology research is critically analyzed. A taxonomy of the accumulated knowledge in psychology is used as starting point for the development of research projects. (c) course can be offered face to face, hybrid or online.

**PSIC4002 - Research Methodology in Psychology II.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: PSIC 4001*

Documented exposition, grounded on the first part of the course of the designs in psychological research. Assuming scientific research as the relationship between theoretical field and observations, the most common methods and techniques in each design are studied. Causal, functional, structural, phenomenological, and dialectic approaches are addressed. Experimental and quasi-experimental designs.

(c) 12-08-97

**PSIC4007 - Practicum in Abnormal Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 3016.*

Analysis of the work done directly with persons having behavioral disorders in educational and psychiatric institutions, direct observation, administration of tests and participation in staff meeting whenever possible.

**PSIC4009 - Industrial Psychology.**

*Three credits. Three hours of lecture per week.*

A study of psychological techniques as applied to business and industry including procedures for promotion, upgrading, and selection of employees and study of psychological factors that contribute to the efficient of business or industrial organization.

**PSIC4025 - Biopsychology.**

*3 credits. Prerequisites: PSIC3003 OR PSIC3005*

Introduction to the study of the biological basis of psychological functions and behavior. Include historical perspectives, structural and functional neurology, and the relations with psychological phenomena's of sensation, perception, learning, memory, motivation, and emotions. Special attention is given to cortical and autonomic physiology and the biology of movement.

**PSIC4026 - Laboratory of Biopsychology.**

*1 credit. Two hours of laboratory work per week Prerequisites: PSIC3003 OR PSIC3005*

Facilitates the applicability to themes discussed in psic4025. Students explore the fundamental principles of biopsychology and its importance to psycho-logy through demonstrations and discussion of scientific literature. Biological anatomical and physiological aspects of the nervous system are discussed. Topic such as sensation, motivation, learning, memory, psychopharmacology, and psycho- pathology are also studied.

**PSIC4027 - Psychology of Learning.**

*2 credits. Three hours of lecture per week Prerequisites: PSIC 3003, PSIC 3005.*

A study of the nature of learning, types of learning, variables involved in the learning process, and issues in learning theory today.

**PSIC4028 - Laboratory in Learning Psychology.**

*One credits. Two hours of laboratory work per week Prerequisites: CONCURRENTLY WITH PSYC 4027.*

The laboratory is designed to familiarize the student with the basic techniques and methodology currently employed in the field of learning research. to this purpose a series of laboratory demonstration and experiments will be employed. Simple conditioning with animals and controlled human learning will be performed. Experimental design, reduction data and research report writing will be stressed.

**PSIC4029 - Psychology of Perception.**

*2 credits. Three hours of lecture per week Prerequisites: PSIC 3003, 3005, 4025 AND 4026. OR ITS EQUIVALENTS.*

A study of perceptual processes including theories of perception, principles of psychophysics and simple experiments in how perception affects the behavior of individuals and groups.

**PSIC4035 - Laboratory in the Psychology of Perception.**

*One credits. Two hours of laboratory work per week Prerequisites: CONCURRENTLY WITH PSYC 4029.*

A laboratory with simple experiments illustrative of conference topics in psychology 4029.

**PSIC4036 - Introduction to Organizational Development.**

*Three credits. Three hours of lecture per week.*

The course deals with the following: diagnosis of organization change including planned change and strategies of promoting change; interpersonal relations, analysis of conflict within organization including interpersonal and intergroup conflict; personal development of the individual. How to be a better participant and a better leader.

**PSIC4037 - Development of Measurement Instruments.**

*2 credits. Two hours of lecture per week Prerequisites: PSIC3003 OR 3005, 4025, CISO3155*

Construction of tests, scales, and inventories for psychological assessment

**PSIC4038 - Laboratory on Development of Assessment Instruments.**

*One credits. Three hours of laboratory work per week Prerequisites: CONCURRENTLY WITH PSYC 4037.*

Laboratory and research experiences on the development of tests, scales, and questionnaires.

**PSIC4045 - Community Mental Health Practicum with Emphasis on Prevention.**

*3 credits. During six weeks the students will meet for three hours per week for discussion of readings, training and techniques and lectures of theory Prerequisites: PSIC 3003 OR 3005, 3006 AND AN INTERVIEW WITH THE COORDINATOR.*

This seminar will explore theory and issues in the areas of community mental health will emphasis on prevention. After the theoretical base is completed, students will practice in a mental health center at the community under supervision. Face-to-face, hybrid and online course

**PSIC4055 - Introduction to Behavior Modification.**

*2 credits. Two hours of lecture per week Prerequisites: PSIC3003*

Critical analysis and application of the behavior modification principles derived from operant conditioning and social learning theories.

**PSIC4056 - Laboratory: Introduction to Behavior Modification.**

*One credits. Three hours of lecture per week Prerequisites: CONCURRENTLY WITH PSYC 4055.*

Laboratory exercises are conducted among the students with the purpose of analyzing the more basic principles of behavioral change. Subsequently, these exercises are conducted with individuals that receive services in community institutions, such as day care centers, schools, and others.

**PSIC4057 - Seminar on Urbanism and Concomitant Psychosocial Problems.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC3006 AND PERMISSION OF THE PROFESSOR*

This course will provide the student with a formal research experience in the area of the psychosocial problems associated with present-day urbanism. One or more research topics in this area will be selected (ex.: aggression, criminality, environmental quality, drug dependency, alienation, diffusion of responsibility, poverty, etc). the research problem will be defined, a research strategy developed, data collected and analyzed, and a research report rendered.

**PSIC4068 - Independent Study in Psychology.**

*3 credits. Prerequisites: PSIC3003 OR PSIC3005,4001,4002, CISO3155*

Research projects will be carried out by groups of students or by individuals with a professor as tutor in all areas of modern psychology through the examination of different problems and theories. the themes to be considered as well as the class schedule will be determined individually by the students and the professor. A research report of the student's project is required at the end of the semester.



**PSIC4075 - Problems of Learning.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005, 4027, 4028.*

This course focuses on the child who needs specialized attention in his education. the student will be given a frame of reference to enable him to deal with preschool children in nursery schools or in special programs of preschool education.

**PSIC4077 - Psychological Determinants of Occupations.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 3005.*

Psychological determinants of occupational demands in terms of interest, aptitudes, values, personality tests, and lifestyles. the student will take tests and perform self-evaluations in order to relate himself with several occupations.

**PSIC4080 - Introduction to Human Sexuality: Bio-psycho-social Aspects.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

General vision of human sexuality. Processes for clarifying personal sexual attitudes and values. the topic will be approached both from a personal perspective as well as in its social dimension. the student will examine some sexual problems of the Puerto Rican society. (c)

**PSIC4087 - Practicum in Service.**

*3 credits. Three hours of practice per week Prerequisites: PSIC 3003 OR 3005 AND AUTHORIZATION OF PROFESSOR.*

Students will participate in the service provided by a direct service or preventive organization under supervision.

**PSIC4115 - Homosexuality and Lesbianism: its Social Construction.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.3005.*

Starting from the framework of social constructionism the models that explain homosexuality and lesbianism, the attitudes and social norms that surround them and the gay liberation movement and its current status, are critically discussed. Relevance to Puerto Rican reality is emphasized. (c)

**PSIC4125 - Cognitive Psychology.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

Study of the theories, research methods and application of the higher psychological processes. Special emphasis is given to epistemological assumptions of the models, controversial issues and the implications for psychology.

**PSIC4135 - Organizational Psychology.**

*Three credits. Three hours of lecture per week.*

Analysis of human behavior on organizations, with emphasis in psycho-social factors. Theories and models that explain interpersonal relationships in different organizational structures and processes are presented.

**PSIC4505 - Thesis Seminar.**

*3 credits. Seven hours of seminar per week Prerequisites: PERMISSION OF THE PROFESSOR.*

Work on the initial phases of an independent research project under the supervision of a faculty member. the seminar should lead to a thesis proposal to be evaluated by a committee of three faculty members.

**PSIC4506 - Thesis Project.**

*One credits. Seven hours of thesis work per week Prerequisites: PSYC 4505.*

Thesis research which includes implementation of the project, gathering the information, interpretation of

findings, writing preliminary drafts, presentation and defense of the project.

**PSIC5003 - Biography and Society. Life-histories for Psycho-social Analysis.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005,3006*

Introduction to the theories and life-history productions in the social sciences. Theoretical premises and salient methodological issues will be examined, as well as the uses of life histories in the different disciplines (psychology, ethnology, psychiatry, sociology and history). Special emphasis will be given to the insertion of individual lives in socio-cultural contexts through readings and class discussion. Social interactions will also be highlighted.

**PSIC5005 - Mobilization and Community Development.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

Different strategies and models used in community development together with specific case studies of Puerto Rican, north American and Latin American communities. New description since August 2013.

**PSIC5006 - History of Madness and Psychiatric Praxis.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 3115.*

Historical vision of the development of psychiatric knowledge and its relationship with institutional praxis.

**PSIC5007 - Preventive Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: FOR FOURTH YEAR UNDERGRADUATE PROGRAMS STUDENTS AND PERMISSION OF THE PROFESSOR.*

An overview of the field of prevention as it has been applied to what is generally conceived of as psychosocial problems. We will examine critically the ways in which the problem has been conceptualized as well as the value of practical interventions in the areas of mental health, the school, and criminal justice among others.

**PSIC5008 - Introduction to Semiotics.**

*Three credits. Three hours of lecture per week Prerequisites: PSIC 3006.*

Analyses, at an introductory level, the theory of the sign, the structure and genealogy of: the linguistic semiosis, the semiotics of the text, the non-verbal communication, and the aesthetic and the visual communication. Explores the relationship between semiotics and psychology. January 17, 2000.

**PSIC5009 - Social Psychology of Film.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

Film is studied as social representation within a given historical moment and specific spaces. We will look into ways of life, individual and collective aspirations, search for meaning and acceptance or resistance to the way in which society is organized. (c)

**PSIC5015 - Introduction to Freud's Basic Writings: A Critical Approach.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 3003 OR 3005.*

Reading seminar leading to the critical analysis of s. Freud's basic writings. the principles and fundamental concepts of psychoanalytic theory will be examined to assess their value and limits. Pretends to examine the epistemological premises of psychoanalysis and to place it among contemporary discipline.

**PSIC5018 - Social Psychology of the Family.**

*Three credits. Three hours of conference per week Prerequisites: PSIC 3003, PSIC 3005, PSIC 3006.*

*AUTHORIZATION OF THE DIRECTOR, MASTERS STUDENTS.*

The course introduces students to the topic of family psychosocial context, emphasizing around relationships

and family dynamics. Some of the psychosocial processes present in family contexts will be covered, such as family functioning, family communication and socialization strategies. The course covers various topics among which are: the notion of family, family diversity, theoretical models, research from psychosocial approach and in particular on the Puerto Rican family. The student will gain an overview of contemporary debates about the family from the discipline of social psychology. This course will allow the development of the conceptual tools to be applied in field work in social psychology with Puerto Rico families.

**RELA3005 - Labor and Society: An Overall View.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Explanation and analysis of industrial relationship from a multi-national, comparative view, but with special emphasis on Puerto Rico: origins of industrial society; development of the labor market; goals of government, management and labor; theories of industrial conflict; political and economic dimensions of labor management relations (legal enactment and collective bargaining); institutionalization of conflict (grievance procedure and arbitration); current issues of policy in industrial relations. (c)

**RELA3015 - Human Behavior in Organizations.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Discussion of human relation problems in modern industry, with special emphasis on the social psychological factors involved in the behavior of the individual worker on his job; the problems and conflicts inherent to the employment relation; and the interaction of the individual with different forms of organization and production. The contribution of the social sciences in areas such as attitude, surveys, motivation, resolution of conflict and encouragement of cooperation will be examined. (c)

**RELA3025 - History of Labor Movements.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Study of living and working conditions of workers in the various stages of history; development of the efforts of workers to secure a greater degree of social justice by means of different organizations and movements, such as mutualism, cooperatives, unionism, political activity, international workers movement; and analysis of the social, economic and political forces which have shaped and influenced the objectives, structure, methods and tactics of the various labor movements. Special emphasis will be given to the contemporary labor movements, especially, in the western hemisphere. (c)

**RELA3031 - Business Administration I.**

*Three credits. Three hours of lecture per week Prerequisites: LARE 3005.*

Organization structure and functioning of industrial establishments to student of labor relations so they could understand better the development of labor relations in that environment. (c)

**RELA3032 - Business Administration II.**

*Three credits. Three hours of lecture per week Prerequisites: LARE 3005.*

Organization structure and functioning of industrial establishments to student of labor relations so they could understand better the development of labor relations in that environment. (c)

**RELA3035 - History of the Puerto Rican Labor Movement.**

*3 credits. Three hours of lecture per week.*

An in-depth study of the labor organizations and their socio-economic and political impact on the Puerto Rican society. Current problems confronting the labor movement will be discussed from 1880 to the present.

**RELA3045 - Labor Relations Laws.**

*3 credits. Three hours of lecture per week.*

Basic problems of the labor management relationship and of the official reaction to those problems evidenced by the laws and the judicial decisions, stressing the evolutive and changing character of said reaction caused by the growth, development and push of the doctrine and action of syndicalism. Includes the study of the applicable positive law on labor relations and collective bargaining both at the federal and insular levels. (c)

**RELA3055 - Protective Labor Legislation.**

*3 credits. Three hours of lecture per week.*

Study of the social and economic problems of workers: hours, wages, and working conditions; changes in public policy in Puerto Rico and the United States with respect to these problems. Legislation as to hours, wages, overtime, workmen's compensation, children, and women, employment security, etc. (c)

**RELA3065 - Collective Bargaining.**

*3 credits. Three hours of lecture per week Prerequisites: RELA 3005, 3015,3031, 3035, 3045, 3115.*

*Corequisites: RELA 3075.*

The course includes the study of the economic foundations of collective bargaining (law of federal labor standards for industries in interstate commerce and the Puerto Rican minimum wage law for insular industry); the existing social legislation as refers to the fringe benefits resulting from collective bargaining; the existing generic legislation concerning the right of workers to organize and bargain collectively with their employers and the utilization of collective agreements as case material for analysis and comparison. (c)

**RELA3075 - Labor Economics.**

*Three credits. Three hours of lecture per week Prerequisites: LARE 3005 AND ECON 3005.*

Labor market economic problems, such as wage hours, work facilities employment, unemployment, and so forth. (c)

**RELA3085 - Introduction to Labor Research and Statistical Reasoning.**

*3 credits. Three hours of lecture per week Prerequisites: RELA 3005, CISO 3155.*

The goal of this course is to introduce the students to the basic methodological concepts of research in the social sciences, with emphasis on their applicability to the fields of manpower and labor-management relations. Social statistics are considered as a necessary tool for understanding the mechanism of the labor market, labor-management relations, and manpower policy issues. (c)

**RELA3095 - Structure, Organization, Government and Management of Labor Unions.**

*3 credits. Three hours of lecture per week Prerequisites: RELA 3005, 3015, 3031, 3035, 3045.*

Familiarize the students with the basic elements of the structure, government and administration of labor unions with emphasis in the Puerto Rican experience, to stimulate them to think of the general problems of that government and structure; to exercise their thinking on the relation between and adequate structure or administrative organization and the objectives of the union; bring them to the importance of the human relations in the solution of daily problems and finally, consider the existent relation between the union, the community and the state.

**RELA3105 - History of the American Labor Movement.**

*3 credits. Three hours of lecture per week.*

Study of the working conditions of American workers in the various stages of American history. Analysis of the development of the efforts of workers to secure a greater degree of social justice through different means and analyze also the social economic and political forces that had influenced the objectives, structure, methods, and tactics of this movement.

**RELA3115 - Introduction to Manpower: Analysis, Policies and Programs.**

*Three credits. Three hours of lecture per week Prerequisites: LARE 3005.*

An examination is made of the major events that influenced the patterns of supply and demand that led to the shaping of a manpower policy in the United States and Puerto Rico. In workshop sessions students will become acquainted with the bureau of labor statistics concepts and statistics used in the monthly labor review as tools for analyzing manpower policies and programs. An analysis is made of income maintenance programs for the work force and the out-of-work force, manpower policies and programs of the sixties to date.

**RELA3135 - Occupational Safety and Health Education.**

*3 credits. Three hours of lecture per week.*

The social and economic consequences of occupational diseases and workplace accidents in Puerto Rico and other countries will be studied. Fundamental principles of occupational health and safety laws and regulations will be explained. Special efforts shall be made to develop in the student a conscientious attitude toward the need for action to minimize the health and safety risks in the workplace.

**RELA3145 - History of Latin American Labor Movement.**

*3 credits. Three hours of lecture per week.*

Study of the history of Latin American labor movement since its formation in the second half of the sixteenth century to the present.

**RELA3150 - Ecology, Work and Society.**

*3 credits. Three hours of lecture per week.*

Study of the threatening ecological problems caused by the various industrialization processes. The role of workers and their ties with health and environmental advocate groups. Analysis of the interrelation among government agencies in charge of policy making for these areas and those civil and labor organizations which manifest some type of resistance to the dominant industrial and political sectors. Examine the problems of power and social counterpowers in conflict, as consequence of society's struggle for the environment.

**RELA3155 - Introduction to the Studies of Working Woman in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: CISO 3121-3122.*

Study of the working woman participation in labor struggles in Puerto Rico, since the second half of the twentieth century to the present. (c)

**RELA3165 - Aggression and Violence in the Workplace.**

*3 credits. Three hours discussion per week.*

Emphasis will be placed in the study and discussion of the workplace aggression and violence phenomena. The study of organizational dynamics that generates aggression and violence will be analyzed in the course. Also, the impact of those variables in the workers' quality of life, the efficiency and efficacy and the social responsibility of the organizations will be considered. Moreover, the challenges that represents for the modern organizations and for unions being proactive in the understanding and resolution of the circumstances that promote such behavior in the individual, group and organizational levels. A sample of law projects, laws and applicable norms and programs will be examined as remedies and as a way to promote the prevention and effective management of related conflicts in the labor context, where aggression and violence occurs. The relevance of the systematic approach in the analysis of variables associated to such phenomena will be established, particularly from an industrial/organizational psychology and a social psychology and labor law perspective.

**RELA4005 - Seminar Workshop: Industrial and Labor Relations.**

*Four credits. Three hours of lecture and three seminars per week Prerequisites: FOR STUDENTS FOR THE COLLEGE OF EDUCATION AND SCHOOL TEACHERS.*

This seminar workshop is designed to provide public school teachers the fundamentals of industrial and labor relations, including the development relations, contemporary labor movements in their social, economic, cultural, and political aspects, labor legislation, collective bargaining, contract administration, and conflict resolution. As a complement to the seminar a workshop will be included for practice in the preparation of teaching materials, basic reading list, and the implementation of teaching methods for the future transmission to public school students of the orientation received.

### **RELA4006 - Modern Industry and Industrial Labor Relations.**

*Three credits. Three hours of lecture per week.*

An introduction to industrial and labor relations in modern industrial society. An examination of the nature of industrial society and of modern work organization and leadership. the place of industrial relations; personnel function in an organization and the general nature of manpower management practices.

### **RELA4007 - Leadership and Group Action.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

This is a course intended to combine theory and practice in the study, observation, and analysis of the formation, development, and functioning of small groups (committees, boards, councils, others) in comparison with the philosophy and functioning of larger groups (assemblies, mass meetings, crowds). Participants will be exposed to theory and practice for the development of understanding and skills needed in group work, such as group leadership roles of the leader, understanding group conflict, mass reaction, etc. (c)

### **RELA4008 - Syndicalism and Cooperatives.**

*Three credits. Three hours of lecture per week Prerequisites: LARE 3005.*

Analysis of the "pros and cons" of the syndicalism and cooperatives joint movement in Puerto Rico. Special attention will be given to the historical evolution of the two movements and where and how they stand now. Different interrelations of the dynamics of these movements will be given during the course.

### **RELA4015 - Philosophical Foundations of Labor Law.**

*3 credits. Three hours of lecture per week.*

Origins and philosophical foundations of labor law in the world, United States and Puerto Rico. (c)

### **RELA4016 - Seminar: Labor Management Conflicts.**

*Three credits. Three hours of lecture per week.*

Discussion and analysis of conflict areas in the labor management relations. Labor conflicts such as strikes, pickets; their methods, objectives, and consequences; the lockout, its objectives and consequences, etc. Remedies and mechanisms for solving these conflicts are also analyzed.

### **RELA4025 - Seminar on Labor Relations in Public Employment.**

*3 credits. Three hours of lecture per week.*

Discussion of labor relation in governmental employment including analysis of the formulation of public policy; differences and similarities between the private and public sectors; the problems which collective bargaining poses for the theories of sovereignty and separation of governmental powers; the determination of appropriate bargaining units; the areas which are negotiable; the use of strike and the interruption of public services; contract administration and the difficulties which arbitration poses for the difficulties of governmental power, and selected aspects such as the conflict between the concepts of seniority and the merit principle. Discussion of existing and proposed legislation in Puerto Rico compared with the experience

of other countries. (c)

**RELA4035 - Mediation, Conciliation and Arbitration.**

*3 credits. Three hours of lecture per week Prerequisites: RELA 3005, 3015, 3031, 3035, 3045, 3065, 3115.*

Presentation, analysis, and evaluation of different systems and methods of mediation, conciliation, and arbitration in the labor management field. Among others, the following aspects will be considered: historical background; similarities; differences; scope of each of these resources for the rational solution of labor management; voluntary arbitration; compulsory arbitration and the position of the following; Puerto Rico labor relations board, the national labor board, Puerto Rico conciliation and arbitration bureau and its federal counterpart. (c) January 2014.

**RELA4045 - Practicum on Labor Relations.**

*Six credits. Meetings and 4-6 laboratory work per week Prerequisites: HAVE COMPLETED ALL THE REQUIREMENTS FOR THE MAJOR.*

Practical experience in the field of labor relations to fourth year students with a major in labor relations, observation and participation in processes related to labor-management relations. (c) course registered for first semester (August to December) 2002-2003.

**RELA4055 - Seminar on Comparative Systems of Industrial Relations in Industrially.**

*3 credits. Three hours of lecture per week.*

Study of the origins of labor relations and the development of comparative systems of industrial relations in industrially developed countries. Discussion of theories of economic development together with theories of interaction of labor, management and government in the productive process. Comparison, in general terms, of the differing development of labor movement and industrial relations as these are evolving in certain countries of western and eastern Europe, Japan and Australia.

**RELA4065 - Medical Plans and the Health of the Organized Workers.**

*3 credits. Three hours of lecture per week.*

Explanation of what a medical plan should offer to union members; the relationship with services of doctors, hospitals, and other aspects of medical services, the cost and quality control factor, preventive, curative and rehabilitation medicine; the rights of the consciousness of medical services; health levels as presented by statistic and priority fixing, health education and collaborative campaigns among unions to achieve better health for all workers. This will prepare the student to distinguish between plans that benefit the union movement and those that bring problems and ill will. Likewise, a broad and useful background of public health will be presented.

**RELA4075 - Healthy Organizations and Wellbeing at Work.**

*Three credits. Three hours of seminar per week.*

Course for undergraduate to promote the discussion of the characteristics, approaches, principles and applied practices. Processes and organizational dynamics will be study, promoting a healthy environment, quality of work life and wellbeing. It will also analyze, their impact in the efficiency and effectiveness in organizational processes and the compromise with social responsibility. It will examine the challenges for healthy workplaces and for the union to proactively address the circumstances that may threaten the employee well-being. We will discuss samples of policies, and programs that promote prevention and effective management of factors that may affect the quality of life and well-being of employees at work. It will emphasize the importance of a systemic approach from the perspective of the industrial/organizational psychology, occupational psychology, counseling psychology and human resources management.

**RELA4990 - Seminar on Special Topics in the History of the Labor Movements the One and.**

*Three credits. the one and three hours of seminar.*

Seminar of variable credits and themes aimed at studying special topics related to the labor history and the labor movements and that are relevant to the better understanding of the industrial relations. the student would be able to take the course more than once up to 6 credits. As long as it is offered on different topics. Topics: the labor movement in Puerto Rico during the economic crisis of the 1930s. P. H.

### **RELA4995 - Seminar on Special Topics in Labor Economics.**

*One to Three credits. One to three hours of seminar per week.*

Seminar variable credits and themes aimed at studying special topics related to the labor economics and that are relevant to the better understanding of the industrial relations. the student would be able to take the course more than once up to 6 credits, as long as it is different topics. This seminar will be offered in face-to-face and hybrid modalities.

### **SOCI3005 - Criminology.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Critical reflection about criminality, both historically and in contemporary society. Emphasis on discourses about crime, state practices toward criminality, and spaces of resistance of various subordinate sectors. This course will be offered face-to-face, hybrid and online modalities.

### **SOCI3045 - Sociology of Religion.**

*Three credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

The concept of religious experience and its expression in ideas within the circumstances that surround man to relations among men, and their history. the emergence of this relationism in the Hebrew prophet, its manifestations and transformations as illustrated in attitudes toward magic, tradition, innovation, economic behavior, and the scientific approach. Comparative analysis between ethic and exemplar prophecy. Intra-worldly and activist asceticism and supra-worldly and contemplative asceticism. Interrelationships between religious ideas and religious situations and their effects on behavior. (c) this course will be offered face-to-face, hybrid and online modalities.

### **SOCI3055 - Juvenile Delinquency.**

*Three credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Juvenile delinquency as a social phenomenon, its incidence. Analysis of factors that influence delinquent behavior. the role of the police, the courts, agencies of prevention and control; probation and parole system; influence of individual groups and the community in the prevention and treatment of juvenile delinquency. Case discussion, visits to youth institutions and conferences on the subjects by field authorities. (c) this course will be offered face-to-face, hybrid and online modalities.

### **SOCI3065 - Sociological Bases of Marxism.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245*

Discussion of the relevance of Marxism for contemporary culture. Debates about socialist states and their collapse, as well the possibilities for reconstituting Marxism. Emphasis on Marxism as an international movement composed of multiple intellectual efforts in politics and culture.

### **SOCI3076 - the Development of Sociology and the Social Sciences and the Political Process in Puerto Rico.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion*

Study of the main moments in the relation between the social sciences, particularly sociology, and the Puerto Rican political process, since the late nineteenth century to the present.



**SOCI3077 - the Sociological and Social-scientific Thought of Eugenio Maria de Hostos.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week Prerequisites: SOCI 3245.*

Analysis of Hostos' contribution to the development of the social sciences, particularly sociology. His intellectual evolution through various stages in his maturation process.

**SOCI3085 - Sociology of Culture.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Examination of various theoretical perspectives toward the concept of culture. Discussion of the relations between high and popular culture; tradition and innovation; artists, critics, and public; texts and contexts. Application to various genres such as the visual arts, literature, music, and sports.

**SOCI3095 - Sociology of Work.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Definitions of the concept of work, both paid and unpaid. Perspectives toward various aspects of the labor market, such as stratification and occupational mobility, salary inequality, and organizational behavior. Discussion of the effects of globalization on labor processes.

**SOCI3105 - Social Stratification.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Main social and economic dimensions of the class system in contemporary society. Discussion of the most important theories of social stratification. Articulation between class and other social divisions, such as gender, race, and ethnicity.

**SOCI3115 - Social Structure and Ideology.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Diagnosis of the contemporary era based on the redefinition of ideology in discursive regimes. Examination of the role of intellectuals, the reemergence of the pagan and prophetic tradition in the current society of spectacle. Assessment of the postmodern condition, ruptures, continuities, and paradoxes in the spheres of subjectivity and consumption.

**SOCI3135 - Sociology of Literature.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Panoramic view of the main theories about the social significance of literature. Examination of the relationship between literary research and the sociology of knowledge. Discussion of problems in the sociological study of the novel. Course face-to-face, hybrid and online modalities.

**SOCI3165 - Sociology of Gender and Sexuality.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI3245*

Discussion of the main critical theories and the social construction of categories about gender and sexuality in contemporary societies. Analysis of the way in which gender and sexuality intersect in social institutions.

**SOCI3175 - Sociology in Latin America.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Analysis of the main works in sociological thought about the region. Discussion of how social scientific paradigms articulate power relations and how alternate knowledges emerge from Latin America.

**SOCI3185 - Penology.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Historical development, theory, and philosophy of the penal system. Analysis of the correctional administration and treatment of inmates in government institutions.

**SOCI3195 - Sociology of Economic and Social Development.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245, CISO 3121, 3122.*

Critical analysis of the concept of development in economics and other social sciences. Discussion of dominant discourses, including liberal, neoclassic, and marxist ones. Examination of the relationship among development, private property, education, planning, urbanization, and globalization.

**SOCI3235 - Forensic Sociology.**

*3 credits. Three hours of lectures and four of laboratory work per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Analysis of social and legal variables in the study of criminal behavior. Application and relevance of sociological theories, methods, and data to the system of justice.

**SOCI3245 - Principles of Sociology.**

*3 credits. Three hours of lecture per week.*

Introduction to the basic concepts and diverse approaches of the discipline. Analytical, theoretical, and methodological perspectives to understand society, its institutions, and processes of formation and change. This course will be offered face-to-face, hybrid and online modalities.

**SOCI3267 - Sociological Research Techniques.**

*3 credits. Three hours of lecture and discussion per week.*

Discussion of various quantitative and qualitative strategies, including surveys and interviews. Analysis and interpretation of data, as well as the ethics and politics of sociological research. Emphasis on the critical articulation among theory, methods, and research techniques. Practices of the techniques through the execution of a research project. This course will be offered face-to-face, hybrid and online modalities.

**SOCI3275 - the Sociology of Deviant Behavior.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Analysis of behaviors defined as deviant from the viewpoint of dominant morality in contemporary societies. Discussion of the historical and social circumstances that contribute to the criminalization of certain practices

**SOCI3295 - History of the Sociological Thought.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245. FOURTH YEAR STUDENTS.*

Study of the most influential works in sociological analysis, from the classic period in Greece to the present.

**SOCI3305 - Demography.**

*Three credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

A comprehensive survey of all aspects of population growth, including an analysis of world population growth; theories of population growth; birth rate, death rate, and natural increase, international aspects of population growth; population policies, the composition of population migration. Emphasis will be given to population growth both in the United States and in Puerto Rico. (c)

**SOCI3315 - Sociology of the Family.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Examination of various theoretical definitions of the family and kinship through reflection and observation of contemporary society. Debates about the structures and functions of families, the political economy of households, and the social construction of gender and sexuality. Discussion of the complexity and diversity of

family practices and attempts to define a normative family.

**SOCI3325 - Urban Sociology.**

*3 credits. Three hours of lecture per week.*

Study of sociological theories about the city. Emphasis on the urbanization process in contemporary societies. Analysis of the consequences of the technological revolution and urban social movements.

**SOCI3335 - Social Problems.**

*3 credits. Three hours of lecture per week.*

Analysis of main social problems in the context of sociological theories and concepts. Critical examination of the generation, meaning, and alternative proposals to so-called contemporary social problems.

**SOCI3355 - Peoples and Problems of Latin America.**

*3 credits. Three hours of lecture per week.*

Study of the formation of Latin American societies, with their regional and national variants. Emphasis on the social, cultural, economic, and political consequences of colonization, and industrialization.

**SOCI3385 - Occupational Sociology.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Examination of the main changes in the composition of the labor force throughout the 20th century; their relationship to the economy, and the implications of the transition to the so-called postindustrial society.

**SOCI3395 - the Sociology of Protest.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Study of the main social movements oriented toward the affirmation and defense of civil and human rights, identity, education, peace, and religion.

**SOCI3405 - Utopian Thought.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Study of the principal historical manifestations of thinking about imagined forms of social organization; of the dialectic tensions with existing societies; and of the nature, function, variants, and consequences of utopian thinking in contemporary societies.

**SOCI4005 - Sociological Theory.**

*3 credits. Three hours of lecture per week.*

Systematic study of classical sociological theories (toward the end of the nineteenth century and the beginning of the twentieth) and their application to contemporary research. Analysis of ideas in their social and intellectual context of production. Emphasis on the formation and implementation of fundamental concepts and their explanatory or interpretive range. This course will be offered face-to-face, hybrid and online modalities.

**SOCI4008 - Topics in Sociology.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI3245, CISO3121-3122*

Study of a specific topic within one of the fields of specialization in sociology, ranging from theoretical to methodological or geographical aspects. the course may be repeated up to two times (six credits).

**SOCI4025 - Sociology of Mental Disease.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Analysis of behaviors classified as mental diseases. Emphasis on the creation of categories of mental illness

and health, the practices and institutions based on such labels, and sociocultural responses to persons considered to be mentally ill.

**SOCI4026 - Sociology of Racism and Social Violence.**

*3 credits. One hour lecture, one hour discussion and one hour seminar per week Prerequisites: SOCI 3245.*  
Examination of various types of behaviors based on ideas about difference, especially physical and cultural difference. Analysis of the social and ideological processes that produce racial and ethnic conflicts. Discussion of the practical impact of such ideologies, such as government policies, rebellions, protest, and riots.

**SOCI4035 - Sociology of Knowledge.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*  
Study of the fundamental problems in the social determination of knowledge through a discussion of the main works on the subject. Emphasis on the processes of cultural creation, political thought, intellectual formation, and ideological manipulation.

**SOCI4045 - Slavery and Race Relations in the Caribbean: Puerto Rico, Dominican Republic and Cuba During the Nineteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: SOCI 3245.*  
Slavery and race relations in these three societies of the Hispanic Caribbean lend themselves for a comparative analysis to solve the factors that explain the differences and similarities among them. The fact that in Dominican Republic slavery was abolished much earlier than in the other two societies while the sugar industry economy started much later than in the other two societies, allows for the study of the relation between sugar economy and race relations.

**SOCI4105 - Sociology of Health.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI3245.*  
Historical development and economic and political bases of medicine as science and as a social system. Discussion of the interrelation between demographic and social factors with illness, as well as with health care providers and receivers in various contemporary societies.

**SOCI4115 - Contemporary Sociology.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*  
Study of the major trends that characterize contemporary societies, in the context of tensions between local populations and the global economy. Emphasis on the social, political, and economic implications of the division of labor and large-scale bureaucratic organization, especially during the second half of the twentieth century and the beginning of the twenty-first.

**SOCI4155 - Social and Cultural Change.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*  
Analysis of the principles and theories of collective transformations. Discussion of the social and cultural effects of the major economic and technological changes since the nineteenth century.

**SOCI4170 - Sociology of Violence, Aggression and Dangerousness.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*  
Study of behaviors considered antisocial by the dominant discourse in contemporary societies. Emphasis on sociocultural perceptions and understandings, and the formulation and implementation of public policies to control aggression.

**SOCI4175 - Research Seminar: Sociology of Gender.**

*3 credits. Three hours of lecture and research per week Prerequisites: SOCI 3165, CISO 3121, 3122.*

Analysis and discussion of topics related to gender, according to the specialization of the faculty member in charge of the course. Since June 2008.

**SOCI4186 - Computer Techniques in Sociological Research: Scope and Limits.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245,3267,4005, CISO 3121, 3122.*

Use of the computer for quantitative research employing existing databases. Critical evaluation of quantitative techniques and their limitations through an examination of various theoretical, methodological, and empirical approaches. Integration of theory, methodology, and technique by means of a quantitative research project. Introduction to bibliographic research based on on-line catalogues, search engines, and electronic collections of journals and texts. This course will be offered face-to-face, hybrid and online modalities.

**SOCI4187 - Methodology of Sociological Research.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245, SOCI 3267, CISO 3121, 3122.*

Examination of the construction of the object of study, the use of various methods, the model of causality, and the claim to objectivity of different paradigms that constitute scientific practices in sociology. Elaboration of the connections among epistemology, theory, methodology, and research. This course will be offered face-to-face, hybrid and online modalities.

**SOCI4190 - Sociology of the State.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Study and assessment of the major theories of the contemporary state. Based on the analysis of biopower, emphasis is given to explain governmentality, the weakening of the nation-state, and the democratic imaginary. Consideration of current extreme logics of state power, such as genocide and fundamentalism in the context of globalization.

**SOCI4205 - Women, Work and Consciousness.**

*3 credits. Three hours of lecture per week Prerequisites: SOCI 3245.*

Analysis of the relations among the class structure, the sexual division of labor, and female consciousness. Emphasis on the effect of the organization of domestic labor and wage labor on female consciousness in different social classes.

**SOCI4215 - Sociological Analysis of Contemporary Caribbean.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121, 3122.*

Discussion of key texts for Caribbean social thought, devoted to examining the region as a whole, as well as the particular historical processes of each country in the area.

**SOCI4225 - Sociological Principles of Law.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121,3122.*

Analysis of the relationship between law and particular social structures, the historical origins of the subject of law, the evolution, of the legal person in specific socioeconomic formations, and the nature or juridical practice and ideology.

**SOCI4227 - Latino Cultures in the United States.**

*3 credits. Three hours of lecture and discussion per week Prerequisites: CISO 3121,3122.*

Analysis of the historical origins and contemporary situation of the populations of Latin American origin in the u. S. Emphasis on the construction and transformation of national identities among Latin American and

Caribbean immigrants. Discussion of the similarities and differences among the major Latino groups: Mexicans, Puerto Ricans, Cubans, and Dominicans.

**SOCI5009 - Critiques of Science from A Gender Perspective.**

*3 credits. Three hours of lecture per week Prerequisites: CISO3121-3122 (AN INTRODUCTION TO SOCIAL SCIENCES) AND SOCI3245 (PRINCIPLES OF SOCIOLOGY).*

Study of the creation of scientific knowledge and of how the production and consumption of this knowledge reflect social inequalities. Examination of the democratic deficit of key concepts in science and the application and resistance against scientific norms since the nineteenth century. Exploration of new paradigms that might address such critiques from a gender perspective.

**TSOC3005 - Social Welfare System.**

*3 credits. Three hours of lecture per week.*

This introductory course describes the nature of the social welfare system, its ethical and philosophical base, its relationship with other welfare systems and its functions and evolution in contemporary society. People's basic needs and society's contribution to their self-fulfillment are also considered.

**TSOC3015 - Social Work as A Profession.**

*3 credits. Three hours of lecture per week.*

This introductory course examines social work as a socially sanctioned helping profession oriented toward enhancing people's social functioning. the generic base of the profession is emphasized, as well as its orientation toward social justice and the dilemmas it faces.

**TSOC3131 - Scientific Research on Social Work I.**

*Three credits. Three hours of lecture per week Prerequisites: TSOC 3005-SOCIAL WELFARE SYSTEM, TSOC 3015-SOCIAL WORK AS A PROFESSION. COREQUISTE*

The discussion of scientific research and its utility in knowledge construction for social work practice, program and services evaluation and practice evaluation. It introduces the scientific method and the quantitative and qualitative approaches premises, methods, and teaching. Analysis of ethics issues, especially those related with the principles and values of the profession.

**TSOC3132 - Scientific Research in Social Work II.**

*Three credits. Three hours of lecture per week Prerequisites: TSOC 3131-SCIENT RESEARCH ON SOCIAL WORK I. Corequisites: TSOC 4015- PROFESSIONAL PRACTICE I.*

The course develops in depth knowledge and skills about instruments constructions, data collection and analysis, data presentation and the elaboration of final research report, through the use of computer and other technologies.

**TSOC4003 - Social Functioning Dynamics I.**

*3 credits. Three hours of lecture per week.*

The course analyzes the macro social forces impinging on the social functioning of human beings, within an interactional eco-systemic perspective. It examines the family, groups, organizations, social classes, economic forces and social institutions as socializing agents and their impact on people's quality of life.

**TSOC4004 - Social Functioning Dynamics II.**

*3 credits. Three hours of lecture per week Prerequisites: TSOC 3005, 3015 AND 4003.*

Critical analysis of the human development theories, considering the bio-psycho-social and spiritual factors involved. the human life cycle is examined as a process from pre-conception, conception, infancy, pre-school, puberty, adolescence, young adulthood, maturity, old age and death. the implications of these knowledge in

terms of professional practice is also studied.

### **TSOC4010 - Spirituality and Social Work.**

*Three credits.*

Explains how the spiritual dimension expands the biopsychosocial framework of the human being and increases understanding of human behavior from the generalist approach to social work. Students will learn the role of spirituality in social work as a subject binding to their professional work, sustained in the theories that explain the philosophical and ethical principles that guide the profession in Puerto Rico. It analyzes and discusses spirituality and its relation to the human being from the context of diversity, internalized and institutional oppression, social justice, human rights and ethical standards of practice culturally competent. Various instruments to explore spirituality and its usefulness in understanding the holistic human being are analyzed. In addition, several spiritual, religious and nonreligious perspectives of various existing spiritual groups are studied, from the influence that have their traditions or rules on behavior and health.

### **TSOC4011 - Generic Approach and Intervention with Individuals in His/her Family Context I.**

*Three credits. Three hours of lecture per week Prerequisites: TSOC 3005, 3015, 4003, 4004.*

Study the person as a system in his family context and other systems from a generic perspective of social work. The course main themes are the generic foundation of the professional intervention, use of self in the exploration and intervention process, communication, interviewing techniques the problem solving model and the system theory. The student will demonstrate competencies in data gathering through an interviewing techniques and social history records. The student will be guided to think and apply the concepts discussed in the course through the use of conference, learning exercises and field experience. The student will choose a social service agency to get acquainted with the roles, types of interviewing models, values and ethics foundations and the relationship between social worker-client. These will prepare the students for the field experience required in TSOC 4017. This course is required for all social work students.

### **TSOC4012 - Generic Approach and Intervention with Individuals in His/her Family Context II.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121, 3122*

The student will continue the study of the person in his family context and other systems from the generic approach in social work. He is introduced in the conceptual and written assessment, the design of the intervention plan emphasizing clients' strengths and factors that influence his situation, like the family and environment. The student will be exposed to other intervention tools like the crisis intervention model and the problem-solving model centered in tasks. The laboratory experience in a social service agency will offer the opportunity to connect theoretical concepts with practice according to the ethical code and the conceptual framework of the profession. The participation of the student in a 15-hour laboratory will develop her generic skills in the intervention process with individuals. The student will also participate in a six-hour writing workshop, coordinated with the linguistic competencies development center to improve his skills in this area in order to respond to work demands and to teaching and learning demands required by our department.

### **TSOC4015 - Professional Practice I.**

*3 credits. Three hours of lecture per week Prerequisites: TSOC 3005, 3015 Y 4003.*

The generic intervention perspective and the problem-solving model are examined, emphasizing the generic interventive sequence: relevant data gathering and analysis, assessment, selection of intervention modality, implementation of helping plan and evaluation. Necessary skills in each phase are emphasized, such as communication, establishment of helping relationship, interviewing, and helping strategies.

### **TSOC4025 - Professional Practice with Groups and Community.**

*3 credits. Three hours of lecture per week Prerequisites: TSOC 3005, 3015, 4003, 4004, 4015.*

Group systems are examined as client systems in social work intervention, as well as their dynamics, characteristics, group models in social work and the generic intervention sequence with groups.

**TSOC4026 - Personal and Professional Development.**

*3 credits. Three hours of lecture per week Prerequisites: TSOC 3005, 3015 AND 4003.*

This course promotes self-insight in the students regarding their capacities and personal skills to perform as social workers. It emphasizes the use of self in the helping situations, interpersonal relations, empathy and helping skills. Face-to-face, hybrid and online modalities. Effective august 2021.

**TSOC4027 - Community Organization and Social Policy.**

*3 credits. Three hours of lecture per week Prerequisites: TSOC 3005, 3015, 4003, 4004, 4015, 4025.*

Intervention as an empowerment tool is examined in its purpose of strengthening community problems specifically those related to the changes in the welfare state. the links between social policy formulation and community work is also examined. the generic interventive sequence is applied to community organization.

**TSOC4028 - Sociolegal Aspects Related to Social Work.**

*3 credits. Three hours of lecture per week.*

This elective course examines the main socio-legal processes in Puerto Rico related to social work practice. It also examines public policies related to families, children, adolescents, and handicapped persons, considering the legal implications to these policies.

**TSOC4029 - Social Intervention with the Disabled and the Family.**

*Three credits. Three hours of lecture per week.*

Study of basics concepts related to the social construction of disability from which the student will be directed to the implementation of critical thinking from the role of the generalist social worker. Through the conference, field experiences, analysis and discussion of readings and films will lead social worker students of second year on or students from other discipline to identify and combat various forms of oppression experienced by disabled people and their families, as well as to foster inclusion and participation in social tasks. It is elective course.

**TSOC4030 – Oppression, Inequality and Social Work.**

*3 credits. Three hours of lecture per week Prerequisites: CISO 3121, 3122*

Study of the manifestation of oppression, its political, cultural, social and economic dimensions and forces that generate and maintain it. By means of the conference, group and written works, critically analyze the conditions of inequality in vulnerable populations such as migrants, communities LGBT, socio- economically disadvantaged and discriminated groups for reasons of race, age, gender, class, ethnic group, among others. Presents models of transformation to dismantle and to deconstruct persistent conditions of oppression and inequality, promoting principles of social justice and human rights. the course expects the students to know, identify and understand discrimination conceptual bases regarding oppression and inequality of disadvantaged groups as well as developing competencies and affirmative actions to empower these excluded population

**TSOC4036 - the Social Work Practice and the Mental Health Services.**

*3 credits. Three hours of lecture per week Prerequisites: TSOC 3005, 3015, 4003, 4004 AND 4015.*

This elective course examines mental health problems, services provided by mental health institutions and the knowledge ad competences needed for social work practice with this population.

**TSOC4047 - Management of Human Welfare Agencies.**

*3 credits. Three hours of lecture per week.*



Basic principles of administration of social welfare agencies; the administrative process as an essential factor in rendering effective services and the role of welfare personnel as an integral part of the agency. Face-to-face, hybrid and online modalities. Effective August 2021.

**TSOC4065 - Supervised Practice.**

*6 credits. Supervised practice discussion (240 hours per semester) Prerequisites: TSOC 3005, 3015, 4003, 4004, 4015, 4025, 4027, CISO 3155 and 3205. CISO 3086 AND 3011 OR SUBSTITUTES RECOMMENDED BY THE DEPARTMENT.*

This course culminates the concentration sequence in social work, integrating theoretical content with a direct field practice experience in social welfare agencies. Students benefit from introductory practice seminars with the field practice professors and other agency personnel. the course requires a minimum of 400 hours per semester.

**TSOC4095 - Family Social Work.**

*3 credits. Three hours of lecture per week Prerequisites: TSOC 3005, 3015, 4015, 4003, 4004.*

This elective course examines the family system as a basic social institution satisfying people's basic needs. It also examines the family's nature as a dynamic socialization system. It provides knowledge, attitudes, and skills for family intervention.

**TSOC4195 - Gerontology and Social Welfare.**

*3 credits. Three hours of lecture per week.*

This elective course examines bio-psycho-social aspects inherent to the aging process, analyzing their impact on the elderly. It provides knowledge, and attitudes necessary in dealing with the aged.

**TSOC4205 - the Child and Community Resources.**

*3 credits. Three hours of lecture per week.*

This course acquaints the student with the main social service agencies geared toward children services. the main problems affecting children wellbeing are examined, as well as the main services available for these problems.

**TSOC4206 - Social Situation of the Feminine Gender and Social Work.**

*3 credits. Three hours of lecture per week.*

This elective course provides an overview of women issues, their social and historical roles in Puerto Rico and the world, and their role as social work clients.

**TSOC4215 - Homosexuality: Sexual Diversity.**

*3 credits. Three hours of lecture per week.*

An overview of feminine and masculine homosexuality across history, with emphasis on its nature within a bio-psycho-social perspective.

**TSOC4505 - Macro vision of the Social Work Intervention.**

*Nine credits. Ninety hours of lecture and 300 hours of practice Prerequisites: FOR PERSONNEL OF PUBLIC SERVICE AGENCY WITHOUT FORMAL ACADEMIC TRAINING OR PROFESSIONAL DEGREE. A HIGH SCHOOL GRADUATION AVERAGE OF NO LESS THAN 2.00 IS REQUIRED TO APPLICANTS.*

The basis aspects of the professional intervention, including its nature, skills and interventive models. It is oriented toward special population of students who even when working in the field do not possess the knowledge and expertise.

**COLLEGE OF EDUCATION**

**ECDO3005 - Child Growth and Development.**

*Three credits. Three hours of discussion per week.*

Study of the child growth and development since prenatal through infancy, preschool, school, and some aspects of the adolescent years. Emphasis is given to the influence of the family in the integrated development of the child and its implications in his guidance and care. Studies related to the Puerto Rico child are analyzed. Child observations are required. (c)

**ECDO3006 - Vision and Challenges of Professionals in Family and Consumer Sciences.**

*Three credits. Three hours of lecture discussion and seminar per week.*

Promotes personal reflection with reference to his or her role as a professional in family and consumer sciences, new trends in the profession, and research in the field. Emphasizes the use of the computer and new technologies to plan, develop, and create effective educational presentations.

**ECDO3007 - Life Cycle of the Human Being.**

*3 credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Integrated study of the characteristics and needs of human beings through their life span, from the prenatal through late adulthood and lastly to the process of dying. Different theoretical views are investigated in order to describe human development as well as the influences that the environment sets in it. Comparative analysis of the physical, cognitive, social, and emotional development from an educational and sociocultural perspective. Examines these developmental factors. Analyzes the role of Puerto Rican family as well as the influences that other contexts create in the growth, development, and wellness of individuals.

**ECDO3015 - Family Relationships.**

*Three credits. Three hours of discussion per week.*

An introductory course in the study of the family. Opportunity is given for the formulation and evaluation of personal attitudes and concepts regarding the family. It encourages discussion of theories and practices on family life with special attention to the impact of internal factors (personal and intrafamilial) and external factors (interrelationships with society) as they are evident in our society. The course includes, among others, the following topics: the family, roles, planning before marriage, adjustments, solving conflicts and crisis, parenthood, the law, and the family, its future as an institution. (c)

**ECDO3025 - Housing: Space Planning and Home Furnishings.**

*Three credits. Two hours of discussion and two hours of laboratory work per week.*

Introductory course in space planning and furnishings. Includes effective space planning to meet family needs, the study and application of design elements and principles, and the selection, construction, use and care of home furnishings. (c)

**ECDO3026 - Clothing and Creative Project Construction.**

*Three credits. Two hours of discussion and three hours of laboratory per week.*

Study, application, and development of sewing techniques used, with a commercial pattern, to make clothing and create or embellishment textile products. This course is offered to the school of family ecology and nutrition undergraduate students who will be educators. It will be offered throughout conference and laboratories. This course inactivates ecdo4002.

**ECDO3035 - Housing: Consumer's Problems.**

*Three credits. Two hours of discussion and two hours of laboratory work per week.*

Three credits. Two hours of discussion and two hours of laboratory work per week.

**ECDO3045 - Textiles and Consumer's Problems.**

*Three credits. Two hours of discussion and three hours of laboratory work per week.*

A study of recent textile development with emphasis on fibers, new construction techniques and finishes as related to consumers decisions. Physical and chemical textile testing in laboratory work with emphasis on the current situation of the textile industry in Puerto Rico.

**ECDO3046 - Clothing and Textiles: Selection and Purchase.**

*Three credits. Two hours of discussion and three hours of laboratory work per week.*

It includes the study of socio-cultural concepts that impact clothing selection and purchasing. Elements to be considered in the selection, purchasing and care of clothing and textile products are evaluated. Students are required to prepare samples of clothing construction techniques.

**ECDO3055 - Aspects of Clothing and its Psychological, Cultural and Social Economic Implications on the Consumer Behavior.**

*Three credits. Three hours of discussion per week.*

Introduction to the study of the psychological, cultural, artistic and social economics aspects of clothing and its relation to the consumer behavior. Fundamentals of the selection, purchase, and care of clothing. Experience on some clothing techniques to obtain better and more use of the clothing that is made or purchased. Independent study is required.

**ECDO3065 - Study Travel to New York: Manufacture, Marketing of Clothes, Textiles and Related Topics.**

*Three credits. Ten hours of lecture following by a field trip Prerequisites: PERMISSION OF THE PROFESSOR.*

Educational tour to the city of New York to observe the various processes and phases of the textile and apparel industry. Visits to textile mills, institutes, factories, fashion houses, department stores and museums. Pre-tour lecture series on related topics.

**ECDO3075 - Child Nutrition.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Basic concepts on nutrition with special emphasis on children up to 12 years. Emphasis in development of alimentary patterns. (c)

**ECDO3095 - Basic Techniques of Clothing Construction.**

*Three credits. Two hours of lecture and three hours of laboratory work per week Prerequisites: FOR STUDENTS WITH LITTLE OR NO SEWING EXPERIENCE AT ALL, AND THAT WILL NOT TAKE THE COURSE AS A REQUIREMENT.*

Includes the study and analysis of the commercial pattern, using it in the creation of different garments in order of complexity. During the construction of such garment the techniques and principles of sewing will be discussed, analyzed, and used.

**ECDO3096 - Basic Techniques of Clothing Construction II.**

*Three credits. Two hours of lecture and two hours of workshop per week Prerequisites: HOEC 3095. IT WILL BE OFFERED TO STUDENTS WHO ARE NOT MAJORING IN HOME ECONOMICS.*

This course has been designed to provide the student with a broader understanding and educational experience in sewing. It will include the modifications of commercial patterns to create new designs and special sewing techniques in accordance to different types of textiles used.

**ECDO4001 - Basic Principles of Clothing Construction.**

*Three credits. Two hours of discussion and three hours of laboratory work per week Prerequisites: HOEC 3045.*  
Three credits. Two hours of discussion and three hours of laboratory work per week Prerequisites: HOEC 3045.

**ECDO4002 - Advanced Clothing Construction.**

*Three credits. Two hours of discussion and three hours of laboratory work per week Prerequisites: HOEC 4001.*  
Three credits. Two hours of discussion and three hours of laboratory work per week Prerequisites: HOEC 4001.

**ECDO4015 - Pattern Making.**

*Three credits. Two hours of discussion and three hours of laboratory work per week Prerequisites: HOEC 4002.*  
Emphasis in the fitting of a basic commercial pattern for the development of a slope. Analysis of and experience in the system of developing fashion designs through the flat pattern method. Designing from a sloper, pattern cutting and garment construction.

**ECDO4016 - Infants and Toddlers Curriculum.**

*Three credits. Three hours of lecture per week Prerequisites: ECDO 4125 AND EDFU 3002.*  
Study, analysis, and application of basic principles approaches for the designing, development and implementation of infants and toddler's curriculum. Study of different curriculum approaches. the theory will be enriched with professional and field experiences in centers. (c) 08-16-99

**ECDO4025 - Design and Interior Decoration.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: HOEC 3025.*  
The development of knowledge and skills in interior design and decoration by means of analysis, synthesis and evaluation of related problems. Includes the design of floor plans, selection of color harmonies and furnishings considering their function, character and purpose. Consideration is also given to the estimates including cost of materials and labor and the basic principles skills related to the profession.

**ECDO4032 - Menu Design and Food Service.**

*Three credits. Two hours of discussion and three hours of laboratory work per week Prerequisites: HOEC 4031.*  
Three credits. Two hours of discussion and three hours of laboratory work per week Prerequisites: HOEC 4031.

**ECDO4035 - Planning, Preparing and Serving Family Meals for Diverse Population.**

*Three credits. Two hours of conference and three hours of laboratory per week.*  
Philosophical model for planning, preparation, and service of family meals. Includes the principles of decision making and planning as medullary elements of the process. Emphasizes in the selection of nutritive foods, efficient use of money and conservation of time and energy to respond to the needs of individuals and the challenges of emergent lifestyles. Considers the psychological aspects, the multicultural food patterns the population with special needs and the new trends in recent research in the food industry. 13-08-02

**ECDO4042 - Basic Principles of Nutrition.**

*Three credits. Two hours of discussion and two hours of laboratory work per week.*  
A course designed for none-home economics students who need a background of nutrition for their field, including teachers, nurses, physical health education students and others. Fundamental knowledge of dietary essentials. Special emphasis on food composition and factors involved in the planning and selection of diets to meet these needs for all age groups and different special conditions.

**ECDO4088 - Theory and Use of Microwaves in the Preparation of Foods.**

*Three credits. Three hours of lecture per week Prerequisites: HOEC 4031 AND HOEC 4042 OR PERMISSION OF THE DIRECTOR.*

Theory and practice of microwave energy cooking methods and techniques. Laboratory experiences in the preparation of food according to its chemical composition. Basic concepts of food, nutrition, and menu planning.

### **ECDO4095 - Organization and Methodology for Family and Community Education.**

*3 credits. Two hours of discussion and 2 of laboratory per week Prerequisites: EDFU3012, ECDO 3007, 3015,4255,3035,3046,4042 OR ECDO4035 Corequisites: ECDO4115 AND 4185.*

This course includes the philosophy, objectives and laws of the agriculture extension service and other agencies with programs and services for family and community education. Relates the student with the educational programs for youth, adults, voluntary leaders, and community development. Includes the basic theory about teaching and methodology. Visualized processes evolution and educational methodology within the family and consumer science discipline.

### **ECDO4105 - Personal Finances.**

*Three credits. Three hours of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Study of the management of money--a non-human resource--by the family. Analysis of family income, expenses, saving, investment, credit, retirement plans, insurance, taxes, wills, and the agencies which provide maintenance programs for families in financial need.

### **ECDO4115 - Independent Living Techniques for Diverse Population in Family and Consumer Sciences.**

*3 credits. Three hours of discussion per week.*

Techniques and practices in family consumer sciences helping develop independent living skills in diverse populations. Alternatives of assistive equipment and modification for daily living activities are explored.

### **ECDO4122 - Supervised Experience in A Nursery School.**

*Three credits. Prerequisites: HOEC 4121.*

Supervised teaching is offered in selected public or private nursery schools. Experiences in instructional and administrative aspects of the nursery school program are required. All activities are coordinated with the college supervisor and with the supervisory teacher. Self-evaluation is emphasized.

### **ECDO4128 - Curriculum for Preschool Children.**

*Three credits. Two hours of lecture and three hours of workshop per week Prerequisites: ECDO 4016.*

Study, analysis and application of basic principles, approaches for the designing, development, and implementation of preschool curriculum. The theory will be enriched with field and practicum experiences in centers. (c) 08-16-99

### **ECDO4135 - Introduction to Gerontology.**

*Three credits. Three hours of lecture per week Prerequisites: HOEC 3015 OR ITS EQUIVALENT.*

Three credits. Three hours of lecture per week Prerequisites: HOEC 3015 OR ITS EQUIVALENT.

### **ECDO4146 - Sustainable Consumption in the Family and Society.**

*Three credits. Two hours of lecture and 3 of laboratory per week.*

Analyze different kinds of individual, family and society consumption modalities. Develop research projects about sustainable consumption in the areas of environmentally friendly purchases, organic gardens, recycling, or compost. As part of the learning process the course includes field trips to places of ecological interest and to places that show the consequences of unsustainable consumption. At the end of the

semester the students should apply the sustainable development concept to his or her own study area and show their acquired competences for the implementation of sustainable consumption projects.

#### **ECDO4148 - Methods for Teaching Family Science-secondary Level.**

*Four credits. Four hours of seminar per week Prerequisites: EDFU3001, OR EDFU3011, EDFU3002 OR EDFU3007,3017,4019, FAED4001, EDES4006 AND 75% OF MAJOR COURSES WITH A GRADE NO LESSER THAN C. Corequisites: FAED4002*

Instructional analysis in the specialty areas focused on the philosophy and the actual curriculum in our Puerto Rican reality, relation, and comprehension of professional documents of the teacher in the family and consumer sciences area. Focused the teaching planning design across the five teaching areas in the family and consumer sciences field. Studies and application of teaching strategies, evaluation, assessment and principles of action research. Will be offered 30 hours of clinical experience related with the course objectives.

#### **ECDO4185 - Resource Management for Families.**

*3 credits. Two hours of lecture and three hours of laboratory work per week Prerequisites: ECDO3007, 3015, 3035, 4035 OR 4042.*

The basic aspects of the family resources administration and its application in home life or other environments are studied using systems theory. They emphasize the problems facing the family to use the human and nonhuman resources to achieve goals. Encourages the application and integration of management principles in the process of decision making in diverse family situation.

#### **ECDO4205 - Field Experience in Sciences of Family and Community.**

*5 credits. Four hours of seminar and 16 weekly hours Prerequisites: ECDO4095 ADN 4235.*

Include observations and supervised practice in family and community work with the agricultural extension service and other agencies with programs or educational services under the philosophy of the profession of family and consumer sciences though not limited to these. Also involves educational activities with youth, adults, and community leaders. Among other experiences with the agency's philosophy and practice requirements. We discuss problems and issues related to work experiences in the field and possible solutions to them.

#### **ECDO4215 - Seminar on Nutrition Through the Life Cycle.**

*Three credits. Three hours of discussion per week Prerequisites: CONSENT OF THE PROFESSOR.*

Analysis of recent literature related to nutrition through the different stages of the life cycle. Emphasis to biochemical, physiological, psychological, and social aspects and their application to real life situations.

#### **ECDO4235 - Field Experiences in Community Agencies.**

*4 credits. Three hours of lecture and six of field experiences per week Prerequisites: ECDO4095*

This course offers students a variety of experiences in their area of interest within the professional field of family and consumer sciences. Includes observation and participation in activities of public and private institutions in the service of family and community in rural and urban areas. Students must submit application for permission of the professor previous semester to registration. the student will pay travel and dietary expenses.

#### **ECDO4995 - Independent Study in Home Economics.**

*One to Three credits. Three hours of lecture per week Prerequisites: FOR FOURTH YEAR STUDENT, PERMISSION OF THE PROFESSOR.*

Course designed to provide undergraduate students the opportunity for independent study to explore in depth an area of home economics of special interest to him. the projects will include experimental or other

type of research and the presentation of a written report.

**ECDO5006 - Curriculum and Methodology for Teaching Home Economics to Exceptional Students.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4006, EDPT 4005 AND EDPT 4006 OR ITS EQUIVALENT.*

Designing and adapting home economics curriculum to meet the needs of exceptional students. Preparing and using the individualized educational plan. Selection and use of adequate techniques and methods for teaching these students. Study of alternatives for organizing programs.

**ECDO5009 - the Nature of the Adult and its Implications in the Teaching-learning Process.**

*Three credits. Three hours of lecture per week Prerequisites: HOEC 3005, HOEC 3015 OR PERMISSION OF THE PROFESSOR.*

Study and analysis of the nature of adult human beings and the implications in the teaching-learning process. Emphasis on family education programs.

**ECDO5015 - Methods in Teaching Occupational Home Economics.**

*Three credits. Two hours of lecture and three hours of workshop per week Prerequisites: ONE OF THE FOLLOWING COURSES OR ITS EQUIVALENT*

Philosophy, curriculums, and teaching strategies in occupational home economics education. Organization and implementation of occupational programs and the legislation that provides for their development. Laboratory experiences in public schools, business, and industry.

**ECDO5017 - Theory and Methodology of Adult Education in Home Economics.**

*Three credits. Three hours of lecture per week*

In depth analysis of theories, methods and strategies for adult education in home economics. Clinical experiences in programs dealing with adult education.

**ECDO5996 - Seminar on Special Topics in the Area of Clothing and Textiles.**

*One to Three credits. the hours of lecture and workshop will be in agreement with the number of* Special topics in the area of clothing and textiles. Emphasis will be given to new tendencies in the use of materials, equipment, techniques, buying and handling of textile products.

**EDES3002 - Field and Laboratory Experiences for Students of Education of Elementary School Level.**

*One to Two credits.*

Students of education will begin a sequence of laboratory and field experiences that will introduce them to the school system, the school communities and to the teaching process and other curricular activities. They will be assigned to school in different socio-economic areas for observation and gradual participation as teacher aides. They will be exposed to the teaching profession and its problems through movies, lectures and seminars.

**EDES3008 - New Approaches to the Visual Arts.**

*Three credits. Three hours of lecture and two of laboratory work per week.*

Three credits. Three hours of lecture and two of laboratory work per week.

**EDES3010 - Diagnostic and Assessment of Young Children with Handicaps.**

*Three credits. Three hours of discussion per week.*

the study and analysis of the factors, methods, and instruments with intervene in the assessment and diagnostic process of young children with handicaps. Emphasis will be provided to the selection,

development, evaluation, and implementation of this process. Field experience is required. 12-08-97

**EDES3015 - Field and Laboratory Experiences for Students of Education of Secondary School Level.**

*Two to Three credits.*

Students of education will begin a sequence of laboratory and field experiences that will introduce them to the school teaching process and other curricular activities. They will be assigned to schools in different socio-economic areas for observation and gradual participation as teacher aides. They will be exposed to the teaching profession and its problems through moving lectures and seminars.

**EDES3016 - Field and Laboratory Experiences for Students of Education of Secondary School Level.**

*Two to Three credits.*

Students of education will begin a sequence of laboratory and field experiences that will introduce them to the school teaching process and other curricular activities. They will be assigned to schools in different socio-economic areas for observation and gradual participation as teacher aides. They will be exposed to the teaching profession and its problems through movies lectures and seminars.

**EDES3025 - Nature and Needs of Pre-school Handicapped Children.**

*Three credits. Three hours of lecture per week.*

Study of the effects of handicapping conditions on the development of the preschool child and their educational implications. (c)

**EDES3026 - Physical Education for Pre-school Handicapped Children.**

*Three credits. Three hours of lecture per week.*

Knowledge and skills for the improvement, amelioration, or correction of handicapping conditions in preschool children through physical activities.

**EDES3027 - Curriculum and Methods for Teaching Exceptional Adolescents.**

*Three credits. Three hours of lecture per week.*

Curriculum areas and adaptable teaching techniques for teachers of exceptional adolescents. Laboratory experiences in institutions for this population form part of the course which is offered to third-year undergraduate students.

**EDES3028 - New Trends for the Education of the Exceptional Child in the Regular Classroom.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**EDES3035 - Seminar: Curriculum and Methodology for Teaching of Pre-school Handicapped Child.**

*Three credits. Three hours of lecture per week.*

Basic course on the teaching of pre-school handicapped children, analysis of their educational problems, planification and organization of educational activities. Emphasis will be given to the study and analysis of this stage of development and its implications for curriculum and teaching.

**EDES3045 - Parent Involvement in Preschool Handicapped Children's Education.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4006, 3025, 3035.*

Competencies and techniques for preschool handicapped children, parents' involvement in their children's education and development. Handicapping conditions effects on the family, parent-teacher communication strategies and parent involvement in developing this special child's potential are studied and analyzed within a functional context.



**EDES3205 - Assistive Technology in Special Education.**

*Three credits. Three hours of conference per week.*

Analysis of the theoretical and practical basis of the use of assistive technology for the education of the people with disabilities. Emphasizes the integration of assistive technology in education and within a familiar environment, as well as in terms of service models and related to the process of evaluation and identification of student`s needs. Field experiences are required. 12-08-97

**EDES4000 - Teaching Methodology in Special Education K-12.**

*3 credits. Three hours of lecture per week Prerequisites: EDPE 4121, 75% CONCENTRATION COURSES AND FAED 4002.*

Laboratory and field experiences for special education teacher-students. They will participate in the processes of planning, teaching, and evaluating students with special needs in the regular and specialized contexts of the k-12 levels. In turn, they will identify and analyze the best educational practices to meet the particular needs of their students and their school contexts. the main purpose of these field experiences is to expose the teacher-student to the immediate reality of the field of special education that allows him to reflect on the theoretical and practical aspect of the teaching and learning pr process of children with special needs and the factors that affect them. This course will be offered in face-to-face, hybrid, distance and online modalities. Effective august 2021.

**EDES4001 - Field and Laboratory Experiences for Students of Education of Elementary School Level.**

*One to Two credits. Six hours of clinical experiences and laboratory per week.*

The students will be assigned to classrooms where they will teach from one to three groups. They will plan, teach, and evaluate their classes assisted by a team of clinical professor. They will identify student and school problems and plan cooperatively toward their solutions.

**EDES4002 - Field and Laboratory Experiences for Students of Education of Elementary School Level.**

*Four credits. Fifteen hours of practice per week.*

The students will be assigned to classrooms where they will teach from one to three groups. They will plan, teach, and evaluate their classes assisted by a team of clinical professors. They will identify student and school problems and plan cooperatively toward their solution.

**EDES4005 - Nature and Needs of Children and Adolescents with Behavior Disorders.**

*Three credits. Three hours of lecture per week Prerequisites: EDFO 3001-3002.*

Broad discussion of the most common behavior disorders in children and adolescents, possible factor contributing to their etiology and some of therapeutic as well as educational provisions that can be provided in these cases. The course provides the students the opportunity of relating with and evaluating some of the most known approaches in the prevention and intervention of behavior disorders. It concludes with a general vision of the most recent innovations concerning the treatment of these children and adolescents. (c) this course will be offered face-to-face, hybrid, distance, and online modalities. Effective August 2021.

**EDES4006 - Natural and Needs of Exceptional of Learners.**

*3 credits. Three hours of lecture per week.*

If offers an overview of the psychological and educational needs of exceptional learners. It provides the experiences and knowledge necessary for the design and implementation of curricular programs, techniques and appropriates strategies for these students. Laboratory and field experiences will be an integral part of course, including observations of exceptional students in regular and special classrooms. the course can be offered in face to face and online course.

**EDES4008 - Education of Multiple Handicaps Child.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4006.*

A basic course in curriculum and methodology for the severely multiple handicapped. Emphasis will be given to the application of behavior modification techniques, sensory stimulation, early intervention, and total communication. Face to face, hybrid, and online course

**EDES4015 - Nature and Needs of the Mentally Retarded Child.**

*Three credits. Three hours of lecture per week.*

Basic course of the psychology and principles of education of the mentally retarded. Gives the background necessary for the adequate understanding of the educable, trainable, and profound mentally retarded child. Among the topics included for study are the following: 1) the use of psychometry tests for the diagnostic, classification, and prognostic of the mentally retarded behavior in social and learning situations; 2) the definitions, natures, causes and types of mental retardation and its prevention; 3) educative programs for the rehabilitation of the retarded, 4) parents' orientation. Face-to-face, online and hybrid course. Effective January 2021.

**EDES4016 - Methods and Curriculum for the Mentally Retarded Child.**

*Three credits. Three hours of lecture per week.*

This course gives the student experiences in the adequate methods and techniques for the education of the educable mentally retarded in the different areas of the curriculum and the application of psychological and learning principles for their teaching. Emphasize the study of the special curriculum for the retarded, the preparation of instructional material and the diagnostic and individualization of instruction for the educable mentally retarded child. This course must be taken a semester previous to the intensive practice teaching. Face to face, hybrid, and online course

**EDES4018 - Teaching of the Trainable Mentally Retarded Child.**

*Three credits. Three hours of lecture per week.*

the course offers an intensive and detailed study of the nature of the moderate and severe mentally retarded children, his limitations and potentialities and the implications of these aspects in his training. Analysis of the appropriate curriculum and study of the areas of training, learning principles, techniques and strategies effective for his training. the course emphasizes the study of systematic teaching applied for the training of the moderate and severe mentally retarded and the selection of appropriate equipment and materials for his training.

**EDES4019 - Nature and Diagnosis of Specific Difficulties in Children.**

*Three credits. Three hours of lecture and two of laboratory work per week.*

A clinical course in the diagnosis of specific learning difficulties in children. the course includes a) study and analysis of neuropsychologic and psychology theories related to learning difficulties; b) the study and analysis of instruments used for the diagnosis of specific learning difficulties in children. (c) this course will be offered face-to-face, hybrid, distance, and online modalities. Effective august 2021.

**EDES4026 - Management of the Inclusive Classroom.**

*3 credits. Three hours of lecture per week Prerequisites: EDES 4006.*

Through this course the student will develop skills and competencies to adequately manage the academic and administrative challenges of the inclusive classroom. the student will relate to those educational strategies and practices that have proven to be effective in dealing with these challenges, especially in areas such as behavior management, documentation related to student achievement, compliance with procedures established by the department of education, and interactions with parents of children with special needs.

This course will be offered face-to-face, hybrid and online modalities.

**EDES4028 - Introductory Course on the Nature and Needs of the Visually Handicapped.**

*Three credits. Three hours of lecture per week.*

This course gives an introduction to the psychological, educational, and sociological problems of the Puerto Rican visually handicapped as he relates to his cultural heritage and national ethos. The nature and needs of the visually impaired will be stressed through practical structured observations of these handicapped children in the available educational setting. Other highlights of the course include visits to diagnostic and instructional materials center and introduction to the techniques (formal and informal) used in the detection of visual impairment. (c)

**EDES4029 - Curriculum in the Education of the Visually Handicapped.**

*Three credits. Three hours of lecture per week.*

This course deals with the fundamental principles of the methodology of teaching the visually handicapped, and techniques in the adaptation of current curriculum materials to the needs of the visually handicapped in the Puerto Rican socio-economic and cultural settings. Curriculum areas of instruction, as well as specific orientation and mobility skills adapted to the geographic conditions of Puerto Rico, early childhood, industrial arts, and vocational education for the visually handicapped will also be stressed. Students will have an early exposure to the visually handicapped through pre-practicum experiences such as tutorial situation and short internship at the instructional material center. Survey of commercial materials and adaptation and design of didactic aids to meet the educational needs of the visually handicapped Puerto Rican children will be also part of this course. (c)

**EDES4035 - Education for the Academically Talented Student.**

*Three credits. Three hours of lecture per week Prerequisites: FOR PRINCIPALS AND TEACHERS OF ELEMENTARY AND SECONDARY SCHOOLS.*

This course will include the identification, educational provisions (enrichment, grouping, acceleration), study of existing school programs, problems of personal, social, and educational adjustment, guidance of the academically talented student.

**EDES4037 - Communication Skills for the Visually Handicapped.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4028, 4029.*

This course will stress the mastery of Spanish and English braille and techniques utilized in reading and writing the braille systems. Educational aids for the partially seeing will be introduced and evaluated by students in the course. Extensive laboratory sessions will be conducted to apply the braille skills in transcribing instructional materials not available for the visually handicapped children in Puerto Rico. (c)

**EDES4038 - Mobility and Orientation.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4028, 4029.*

This course deals with psychological aspects, skills and techniques in orientation and mobility of the severely visually impaired. Cane travel techniques suited to the geographical problems involved in the orientation and mobility of the visually handicapped in Puerto Rican setting. (c)

**EDES4039 - Techniques for Correcting Specific Learning Disabilities in Children.**

*Three credits. Three hours of lecture and two hours of laboratory work per week Prerequisites: SPED 4019.*

This course provides for the study of strategies and techniques for the correction of specific learning disabilities in children which affect them in the acquisition of knowledge and skills relevant to the school learning. It also provides experiences for the use of diagnostic instruments as basis for the planning of individual instruction.

**EDES4040 - Braille System with Contractions and Mathematics.**

*Three credits. One hour and a half of discussion and one hour and a half of workshop per week Prerequisites: EDES4037*

Through this course the student studies and analyzes the theoretical principles, strategies, and methodologies for teaching the braille system with contractions in English, the Nemeth code (braille used for mathematics) and the use of the Cranmer abacus used for the teaching of students with vision impairments.

**EDES4045 - Field and Laboratory Experiences for Students of Education of Secondary School Level.**

*Two to Three credits. Three hours of lecture per week.*

The students will be assigned to classroom, where they will teach from one to three groups. They will plan, teach and evaluate their classes. They will identify student and school problems and plan cooperatively toward their solutions.

**EDES4046 - Field and Laboratory Experiences for Students of Education of Secondary School Level.**

*Two to Three credits.*

The students will be assigned to classroom, where they will teach from one to three groups. They will plan, teach, and evaluate their classes. They will identify student and school problems and plan cooperatively their solutions.

**EDES4047 - the Education of Emotionally Disturbed Children.**

*Three credits. Three hours of lecture per week Prerequisites: EDES 4005.*

The study of the learning problems of children with behavior disorders. Analysis of modern approaches to their education, including special programs, strategies, materials, and special techniques for coping with individualized education. the role of the teacher in the professional team, working with parents, and use of educational resources and records will be also discussed.

**EDES4048 - Behavior Modification and its Application to the Classroom.**

*Three credits. Three hours of lecture per week.*

Analysis and management of the principles and techniques to alter, change, and modify abnormal, inappropriate, and deviant behavior, associated with the teaching-learning process.

**EDES4055 - Educational Strategies for the Inclusion of Students with Special Needs in the Regular Classroom.**

*Three credits. Three hours of lecture per week Prerequisites: EDES 4006.*

The emphasis of this course is on the practical aspect of the process of educating students with disabilities in the regular classroom. in this course, future teachers will plan, taking into consideration the individual differences of the students in the classroom, will prepare materials adapted to wide array of human capabilities, and will develop educational strategies directed towards properly managing the context of diversity. This course is based on the perspectives of universal design for learning and differentiated instruction. This course will be offered face-to-face, hybrid and online modalities.

**EDES4057 - Curriculum and Educational Practices for Students with Emotional or Behavioral Problems.**

*Three credits. Three hours of lecture per week Prerequisites: EDES 4005 AND EDES 4047.*

The systematic study of the curriculum based on various theoretical models, research and local and national standards that are adapted to the needs of students with emotional or behavioral problems. Educational strategies that have been proven effective for this population are studied. Areas of the general curriculum are integrated and adapted to the individual needs of the students. Emotional, social, and daily living skills

are integrated in the general subject area. Students work on educational planning, selection and preparation of materials that meet the particular needs of the student and his or her cultural background. In this course students are required to complete an individualized education program (IEP), a transition plan and a functional behavioral assessment. The appropriate use of technology is integrated as a tool for learning.

**EDES4065 - Nature and Needs of the Student with Specific Learning Disabilities.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4006.*

Study of the basic components in the field of learning disabilities. Presentation and analysis of concepts related to the etiology, the theoretical background, and current trends within this field of study.

**EDES4067 - Inclusion and Motivation of Students with Special Needs.**

*Three credits. Three hours of lecture per week.*

Development of skills for the adequate attention of student with special needs in the regular classroom. The course will emphasize the development of teaching skills according to different learning disabilities. It will include motivation and sensitization techniques. The skills are based on the laws that guarantee the educational rights of individuals with disabilities. (c)

**EDES4069 - Transition from School to the World of Work.**

*Three credits. Three hours of lecture per week.*

Development of knowledge and basic skills needed to provide transition from school to work services to students with disabilities between ages 16 to 21. Emphasizes teaching skills for the transition process. Includes applications of specialized teaching methodology to the transition in the middle, high school, and post-secondary level. (c)

**EDES4075 - Nature and Needs of the Auditory Handicapped Children.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4006.*

Introductory course which provides an overview of the general concepts related to hearing problems and their effects on the teaching-learning process of students with learning impairments.

**EDES4076 - Curriculum and Teaching of the Hearing, Impaired Child.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4006.*

The curricula, methodology, materials, and equipment for teaching the hearing, impaired child.

**EDES4077 - Communication Techniques for the Auditory Impaired.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4006, 4075 AND 4076.*

Course for student teachers in communicative skills for the audio impaired. (c)

**EDES4085 - Methodology for the Design, Organization and Management of Resource Room Programs in Special Education.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 4006.*

Discussion of the various components to be considered in designing, organizing, and managing resource room programs. It includes the application of the diagnostic process the use of instructional alternatives in program development at the elementary, intermediate, and secondary levels.

**EDES4095 - Visual Arts Education for the Exceptional Child.**

*Two credits. One hour of lecture and one hour of laboratory or workshop per week Prerequisites: SPED 4006.*

Theoretical and functional study of the visual arts as a resource for educating the exceptional child. Basic art principles and properties as well as the educational and therapeutic value of these are studied. Includes methods for the teaching of art to the exceptional child and workshops for the students to have practice in

both techniques and materials appropriate for this child.

**EDES4105 - Practicum in Teaching in Special Education with Severely Mentally Retarded Children.**

*4 credits. Twenty hours of practice per week Prerequisites: COMPLETE 100% OF THE PROFESSIONAL COURSES AND THE 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDES4106 - Practicum in Teaching in Special Education with Severely Behaviorally Disordered Children.**

*4 credits. Twenty hours of practice per week Prerequisites: COMPLETE 100% OF THE PROFESSIONAL COURSES AND THE 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDES4107 - Practicum in Teaching in Special Education with Visually Impaired Children.**

*4 credits. Twenty hours of practice per week Prerequisites: COMPLETE 100% OF THE PROFESSIONAL COURSES AND THE 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school, that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDES4108 - Student Teaching in Preschool Special Education.**

*Four credits. Three hours of lecture and twelve hours of supervised practice per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The student is assigned to a public or private preschool, special education teaching experience three hours daily, five days a week. Four days will be devoted to teaching and participation in other teacher-oriented activities. One day a week will be spent in a seminar with the university supervisor to analyze and discuss the problems students are facing in student teaching. In this experience the student is helped in his self-learning by a cooperating teacher, a school director, and a college professor.

**EDES4109 - Practice Teaching in Specific Learning Disabilities.**

*Four credits. Prerequisites: TO COMPLETE ALL THE REQUIREMENTS ON THE PROFESSIONAL COMPONENT AND MAJOR COURSES. FAED4001 AND FAED4002 Corequisites: FAED4003. THE COURSE REQUIRES*

*KNOWLEDGE ON COMPUTER IN ORDER TO WORK WITH BLACKBOARD PLATFORM.*

In their practice teaching, students are required to plan and facilitate the teaching-learning process in a public or private school with children with specific learning disabilities, participate in activities and attend professional seminars at the university. These experiences provide students with theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum practice experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher, and the school director.

**EDES4110 - Practice Teaching of Hearing Impaired.**

*Four credits. Four hours of seminar and 16 hours of supervised practice Prerequisites: TO COMPLETE ALL THE REQUIREMENTS ON THE PROFESSIONAL COMPONENT AND MAJOR COURSES. FAED4001 AND FAED4002 Corequisites: FAED4003. THE COURSE REQUIRES KNOWLEDGE ON COMPUTER IN ORDER TO WORK WITH BLACKBOARD PLATFORM.*

In practice teaching, students are required to plan and facilitate the teaching learning process in a public school with children who are hearing impaired, participate and attend professional seminars at the university. These experiences provide students with the theoretical tools, technique, practices and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher, and the school director.

**EDES4115 - Teaching Reading to Deaf and Partially Deaf Students.**

*Three credits. Three hours of conference per week Prerequisites: EDES 4006, EDES 4075, EDES 4076 AND EDES 4077.*

The course analyzes contemporary practices, methods and strategies used to teach reading to students who are deaf, partial deaf and with hearing problems, as well as the factors which lead to successful outcomes. The course requires 10 hours of field experiences for the observation and implementation of these methods and strategies in a real context.

**EDES4116 - Language Development in Deaf Students and Partial Deaf Students.**

*Three credits. Three hours of conference per week Prerequisites: EDES 4006, EDES 4075 AND EDES 4077.*

Analytical study of theories, methodologies, strategies, and appropriate practices for language development and teaching the deaf, partial deaf and hard of hearing student, with speech and language disorders in different educational contexts. Emphasizes the relation of these disorders with the behavior, exceptionality (condition) of the student in the classroom, methodology and materials to develop the academic potential of these exceptional learners. It includes students with hearing loss, partially and totally deaf. This course substitutes EDES 4025.

**EDES4125 - Autism: psychosocial and Neurobiochemical Aspects.**

*Three credits. Three hours of lecture per week.*

The course amply discusses the area of autism from birth to adulthood. A historical background and theoretical foundations are included simultaneously with both state and federal laws; and the public policy to protect the rights of this population is presented. Characteristics as well as diverse current definitions that correspond to establish protocols in the area of mental health are discussed. The course includes possible causal factors of the conditions such as: psychological, neurological, biochemical, and exogenous. Studies of various disciplines such as pediatrician, pediatric gastroenterologist, psychologists, speech-language pathologists, occupational therapists, geneticists, nutritionists-educators, and others in the area of autism

management. the epidemiology, diagnosis and treatment of the condition are included. Accommodations technology support and educational practices appropriate for this population are analyzed.

### **EDES4126 - Multisensory Communication of Students with Autism.**

*Three credits. Three hours of lecture per week.*

In depth study of multisensory and multimodal communication theories and practices for individuals with autism. Emphasis on diverse augmentative and alternative communication tools for these students. Also, on appropriate educational practices for attention and/or intervention on specific communication difficulties. It includes field experience in centers and schools that offer services to this population. It would involve observation and implementation of the material taught in the classroom.

### **EDES4127 - Applied Analysis Behavior Therapy and Autism.**

*Three credits. Three hours of lecture per week.*

In depth study of the theory and practice of applied behavior analysis(aba) and behavior therapy (BT) for autistic populations. Emphasis on benefits of aba and bt for these students. Study of the connections and uses between aba and be with the processes and practices of assessment, evaluation, curriculum, settings assistive technology and teaching strategies. Includes field experiences in centers and schools that offer services to this population.

### **EDES4128 - Curriculum and Educational Practices for Autism.**

*Three credits. Three hours of seminar per week Prerequisites: EDES4125*

The course examines basic curriculum practices applied to autism such as definition and characteristics which serve as framework for the curriculum. It includes essential curriculum concepts, curriculum areas basic to the individual education program (IEP) and principal strategies for working with the continuum of autism. Appropriate strategies for intervening with students with autism are specified. Both the teacher's role and the work with the families are emphasized. All the above is integrated in case studies and curriculum proposals that foster development as per the profile of the population with autism. It includes field experiences with families or in centers/schools that offer services to this population. This course will be offered face-to-face, hybrid and online modalities.

### **EDES4129 - Assistive Technology for People with Autism.**

*Three credits. Three hours of lecture per week.*

Functional study of the operational bases, practices, software, equipment, applications, networks and other content of technology (t) and assistive technology (at) for people with autism. It will also provide emphasis on the uses, benefits and connections for the education of people with this condition. Similarly, the skills related to t and at in the processes and practices of assessment, evaluation, curriculum, environment and teaching strategies will be integrated. Students will have clinical experiences in the centers and schools that offer services for this population.

### **EDFI3009 - Folk Dance I.**

*Two credits. One hour of lecture and two of laboratory work per week.*

Short history of the development of the dance; information about the origin and styles of specific dances and about the customs of the people who practice them. Simple folk dances with emphasis on the fundamental movements. Dance exercises. (c)

### **EDFI3010 - Social Dance.**

*Three credits. One hour of discussion and two of laboratory work per week.*

Presentation of a social dance program to teach, learn and practice, following a progressive method, the fundamental elements of the most known and practiced social dances. Covers the teaching, learning and the



practice of the following social dances: fox trot, lindy, swing or jitterbug, waltz, rumba, mambo cha-cha-cha, tango, samba, paso doble, salsa in clave and merengue. Includes how to direct and follow the partner and the basic skills related to the turns. This course is directed to all the students that do not know how to dance the social dances. 12-08-96

**EDFI3017 - Elementary Fencing.**

*Two credits. One hour of lecture and two hours of laboratory work per week.*

Introduction, history, evolution, rules and scoring procedure; theory and practice of the fundamental skills and their application during individual competition.

**EDFI3018 - Exploration of the Movement of the Human Body.**

*One credits. One hour of lecture and one of laboratory work per week.*

Methodology and study of the dynamics of the movement of the human body by means of rhythmic activities, creative activities, exercises, and dances.

**EDFI3019 - Rhythmic Aerobics Exercises.**

*Three credits. Three hours of lecture per week.*

Program of physical conditioning which utilizes exercises, locomotion, and dance steps with music, aimed to the physical fitness components of strength, flexibility, cardiovascular resistance and muscular resistance. the course includes the design and implementation of rhythmic aerobic exercise programs. (c)

**EDFI3020 - Step and Slid Aerobic Rhythmic Exercise.**

*Two credits. One hour of discussion and two of laboratory work per week.*

Presentation of a physical conditioning program of aerobic rhythmic exercises for a health population, using steps and slide. Discussion of the theoretical and practical aspects in the design, implementation, and evaluation of the program. 19-08-96

**EDFI3025 - Elementary Volleyball.**

*Two credits. One hour of lecture and two of laboratory work per week.*

Includes the theory and practice of the sport. Knowledge of the skills and fundamental techniques, preparation and training for the sport. Development of skills at an advanced level. Techniques of competition. (c)

**EDFI3030 - Aqua-aerobics.**

*Two credits. One hour of discussion and two of laboratory work per week.*

Presentation of an aqua-aerobics program with music for a healthy population. Discussion of the theoretical and practical aspects in the design, implementation, and evaluation of the program.

**EDFI3035 - Elementary Basketball.**

*Two credits. One hour of lecture and two hours of laboratory work per week.*

Includes the theory and practice of the sport. Knowledge of the skills and fundamental techniques, preparation, and training for the sport. Development of skills at an advanced level. Techniques of competition. (c)

**EDFI3045 - Softball.**

*Two credits. One hour of lecture and two of laboratory work per week.*

Two credits. One hour of lecture and two of laboratory work per week.

**EDFI3055 - Judo.**

*Two credits. One hour of lecture and two hours of laboratory work per week.*

Includes the theory and practice of the sport. Knowledge of the skills and fundamental techniques, preparation, and training for the sport. Development of skills at an advanced level. Techniques of competition. (c)

### **EDFI3056 - Introduction to the Analysis of Movement.**

*Three credits. Three hours of lecture per week.*

Analysis of the basic principles in the teaching and learning of human movement. Introductory concepts in motor learning and kinesiology will be analyzed. In addition, the development of basic movement patterns and their relations to human development process.

### **EDFI3065 - Elementary Baseball.**

*Two credits. One hour of lecture and two of laboratory work per week.*

Two credits. One hour of lecture and two of laboratory work per week.

### **EDFI3075 - Skills, Training and Techniques in Sports (track and field).**

*Two credits. Minimum of three hours of laboratory work per week.*

Field instruction in the development of skills necessary to demonstrate the different events making up the athletic program in track and field including cross country. (c)

### **EDFI3090 - Physical Education for the Preschool Level.**

*Three credits. Three hours of lecture per week.*

The fundamentals of perceptual-motor, intellectual and socio-emotional development of the preschooler and its application to physical education. Includes the teaching and learning process of physical education with emphasis on the selection, organization, and evaluation of movement activities for this age level. (c)

### **EDFI3095 - Coaching Basketball.**

*Two credits. One hour of lecture and three hours of laboratory per week.*

Advanced theory and practice of fundamentals of the game, offensive and defensive systems, and training.

### **EDFI3115 - Physical Education as A Teaching Vehicle (kindergarten-third Grade).**

*Three credits. One hour of lecture and four hours of laboratory work.*

Discussion of the modern concepts of physical education for the primary grades. Emphasis will be given to the selection, organization and administration of activities that contribute to the perceptual-motor, socio-emotional, physical, and intellectual development of the child. Evaluation of these activities as teaching vehicles in the total elementary school program. Face-to-face, hybrid and online course

### **EDFI3125 - Physical Education for Grades Fourth to Sixth.**

*Three credits. One hour of lecture and four hours of laboratory work.*

Discussion of the modern objectives of a physical education program for elementary schools. Emphasis will be given to the selection, organization and administration of rhythmic activities, gymnastics, lead-up games, outdoor education, camping and aquatic activities in terms of their contribution to the child's total development. (c)

### **EDFI3135 - Coaching Track and Field.**

*Three credits. One hour of lecture and three hours of laboratory per week.*

The theory and practice of track and field events from the coaching point of view. Study of personnel selection, physical, technical, and psychological conditioning. Current coaching theories studied and practiced with particular emphasis on the Puerto Rican needs.

**EDFI3145 - Life Saving.**

*Two credits. One hour of lecture and two of laboratory per week Prerequisites: PHED 3441-3442.*

Skills involved in rescue: entry, carry, holds, etc. Equipment and clothing. Practice of styles used in life saving inverted side stroke, breast-stroke, butterfly, diving, etc. Resuscitation. Certification.

**EDFI3147 - Swimming and Diving.**

*Two credits. Three hours of lecture per week.*

Development of skill in both swimming and diving. Special emphasis in the learning of the basic strokes in swimming as a means of teaching elementary swimming in schools and supervised recreation programs. (c)

**EDFI3155 - Principles and Problems of Conditioning.**

*Three credits. Three hours of lecture per week.*

Scientific principles underlying the conditioning program of the athlete for any sport, be it of a physiological or psychological nature.

**EDFI3165 - Officiating.**

*Three credits. One hour of lecture and three hours of laboratory work per week.*

Knowledge of the rules and mechanics of officiating and their application to the different sports. Field work in intramural activities.

**EDFI3175 - Physical Education for the Mentally Retarded Child.**

*Three credits. Three hours of lecture per week.*

Offers the opportunity to the future teacher to study and research the nature and problems of the mentally retarded child in programs of physical education and recreation. Study of school programs for the mentally retarded.

**EDFI3185 - Corrective Physical Education.**

*Three credits. Three hours of laboratory work and one of lecture per week.*

Programs of special activities to condition and develop students with physical limitations, in accordance with their interests, capacities and limitations. Analyses the relationship with school personnel, medical personnel, the family, and the community.

**EDFI3195 - Massage and Protective Strapping.**

*Two credits. Three hours of lecture per week.*

A practical course aiming to familiarize the student with the elements of massage and its physiological effect, as well as the need and application of preventive and protective strapping. (Students must supply their own materials). (c) face to face hybrid and online course

**EDFI3356 - Soccer and its Modalities.**

*Three credits. Two hours of workshop and one hour of lecture per week.*

Teaching and mastery of the rules, techniques, tactics and training principles of the soccer modalities. Discussion on the physical, mental benefits and inclusive adaptations. Economic and social impact in the society, are discussed. the course prepares students with the require knowledge to participate in the different modalities of the soccer. Course will be offered face-to-face and hybrid. New description begins on August 2022.

**EDFI3357 - Introduction to Triathlon.**

*Three credits. Two hours of workshop and one hour of lecture per week.*

Teaching and mastery of the rules, techniques, tactics and training principles of the modalities (swimming, cycling and running) of triathlon. Discussion on the physical, mental benefits and inclusive adaptations. Economic and social impact in the society, are discussed. the course prepares students with the require knowledge to participate in a triathlon event. Course will be offered face-to-face.

**EDFI3385 - Physical Fitness.**

*Two credits. Three hours of lecture per week.*

Knowledge and understanding of physical fitness and its relationship to health. Methods for achieving the level of conditioning necessary to obtain and maintain desirable physical proportions. (c) face to face hybrid and online course

**EDFI3395 - Physical Education for the Exceptional Child.**

*Three credits. Three hours of lecture per week.*

The adaptation of physical education to the needs of the exceptional child who deviates from the normal in his mental, physical, or social characteristics. Special emphasis on programs for the handicapped.

**EDFI3405 - Gymnastics.**

*Two credits. Minimum of three hours of laboratory per week.*

Leading to the development of skills in the basic exercises comprising the gymnastic competitive program. (c)

**EDFI3407 - Intermediate Gymnastics.**

*Two credits. One hour of lecture and two hours of laboratory work per week Prerequisites: PHED 3405, PERMISSION OF THE PROFESSOR.*

Introduction to the intermediate level skills of artistic gymnastics. Emphasis on the teaching of the practical and theoretical aspects of the intermediate level skills needed to perform the different events that compose artistic gymnastics.

**EDFI3415 - Self Defense.**

*Two credits. One hour of lecture and two hours of laboratory work per week*

Methods and materials in self-defense. Preventive methods used in self-defense.

**EDFI3427 - Resistance Training.**

*2 credits. One hour of lecture and two hours of supervised practice per week.*

Introduction to the principles and practices related to resistance training with weights for the development of physical fitness.

**EDFI3441 - Introduction to Swimming.**

*Two credits. One hour of lecture and two of laboratory work per week.*

Brief history of swimming. Elementary skills and analysis of basic movements. Safety procedures in the water. Different elementary styles and introduction to diving. Open for men and women. (c)

**EDFI3442 - Intermediate Swimming.**

*Two credits. One hour of lecture and two of laboratory work per week Prerequisites: PHED 3441.*

Refinement of the basic skills and styles. Physical conditioning. Other advanced styles. Introduction to life saving.

**EDFI3451 - Tennis.**

*Two credits. One hour of lecture and two of laboratory work per week.*

Two credits. One hour of lecture and two of laboratory work per week.

**EDFI3452 - Advanced Tennis.**

*Two credits. One hour of lecture and two hours of laboratory work per week Prerequisites: PHED 3451 OR ITS EQUIVALENT.*

Two credits. One hour of lecture and two hours of laboratory work per week Prerequisites: PHED 3451 OR ITS EQUIVALENT.

**EDFI3455 - Analysis of Tennis Skills.**

*Two credits. One hour of lecture and two hours of laboratory work per week.*

Analysis of the basic movement patterns in the sport of tennis. Methods to detect and correct common errors in the process of learning the tennis and learning the tennis skills. Organization of activities to aid in the teaching and learning of tennis skills, rules, score systems and history.

**EDFI3475 - Softball, Volleyball and Baseball.**

*Two credits. Minimum of three hours of laboratory per week.*

Leading to the development of skill in the basic aspects of those sports necessary to demonstrate adequately in a physical education class. (c)

**EDFI3525 - Handcrafts for Recreation.**

*Two credits. One hour of lecture and two hours of laboratory work per week.*

Two credits. One hour of lecture and two hours of laboratory work per week.

**EDFI3555 - History and Principles of Physical Education.**

*Three credits. Three hours of lecture per week.*

Historical survey of physical education from its origins to the present time. Study and interpretation of the basic principles underlying modern physical education programs. (c) face-to-face, hybrid and online course. Effective for January 2021.

**EDFI3556 - Introduction to Computer in Physical Education and Recreation.**

*Three credits. One hour of lecture and two hours of workshop per week.*

Includes the basics concepts of regarding computer information management and provides skills for computer application programs which are relevant to physical education and recreation.

**EDFI3565 - Intermediate Folk Dance.**

*Two credits. One hour of lecture and two of laboratory work per week Prerequisites: PHED 3009 OR ITS EQUIVALENT.*

Main emphasis in origin, sociological background, folk customs pertaining to specific dances or areas; folk costumes and styles particular to a dance. Dances with more advanced patterns and figures. Dance movement exercises. 17-01-02

**EDFI3585 - Basic Rhythms.**

*Two credits. Two hours of lecture per week.*

Theory and practice of rhythms as applied to the physical education programs. (c)

**EDFI3595 - Basketball and Soccer.**

*Two credits. Minimum of three hours of laboratory per week.*

Covering the basic aspects necessary to demonstrate adequately in a physical education class. (c)

**EDFI3645 - First Aid and Safety Procedures.**

*Two credits. One hour of lecture and two of laboratory work per week.*

Incidence causes and prevention of accidents in physical education, together with the treatment of injuries. Standard first-aid instruction leading to certification. (c) face to face hybrid and online course

### **EDFI3655 - Games for Elementary School.**

*Two credits. One hour of lecture and two of laboratory work per week.*

Theory, practice and methods in games of simple organization, relays, lead-up games and sports, track and field events and special activities.

### **EDFI3675 - Life, Health, and Well-being.**

*Three credits. Three hours of lecture per week.*

Study of the significant health problems confronted by groups and individuals. Emphasis in the relation between the lifestyles and external factors and its consequences in the individual and society well-being. Basic aspects of security, prevention, and management of risk and accidents in daily life in the home and the community. (c) face to face, hybrid and online course

### **EDFI3686 - Motor Skills Learning.**

*Three credits. Three hours of lecture per week.*

Studies aspects related to the control and performance of motor skills. Concepts of control processes, practice, transfer and other related to skill execution. Face-to-face, hybrid and online course

### **EDFI3687 - Fundamentals of Psychology in Sports and Physical Activity.**

*3 credits. Three hours of lecture per week.*

Theory and research of the psychology of sports and physical activity and its application to physical education and competitive sports. Practical applications using psychological strategies.

### **EDFI3689 - Psychology of Child and Youth Physical Activity.**

*3 credits. Three hours of lecture per week.*

Theory and research related to the participation of children and youth in physical activity and sports. Emphasis given to psychological behavior as a result of participation. Basic concepts of sports psychology and its relation to physical and mental development will be discussed.

### **EDFI4001 - Swimming Games and Aquatic Activities.**

*Three credits. Two hours of workshop half an hour of lecture and half an hour of discussion per week*

*Prerequisites: EDFI3555*

Demonstrate mastery of the basic rules, tactical concepts, psychomotor skills and games of the different water sports and activities. Apply methodological and curricular knowledge for the teaching of the water sports and games. Plan short and long term for teaching different water sports and games at pk-12 levels. Design assessment strategies to evaluate student learning. Face to face, hybrid, and online course

### **EDFI4002 - Fundamentals of Individuals Sports.**

*Three credits. Two hours of workshop, half an hour of lecture and half an hour of discussion per week*

*Prerequisites: EDFI3555*

Demonstrate mastery of the basic rules and psychomotor skills of the different individual sports. Apply methodological and curricular knowledge for the teaching of individual sports. Plan short and long term for teaching different individual sports at different individual levels. Design assessment strategies to assess student learning. Face to face, hybrid, and online course

### **EDFI4003 - Fundamentals of Net Games.**

*Three credits. Two hours of workshop half an hour of lecture and half an hour of discussion per week*

*Prerequisites: EDFI3555*

Demonstrate mastery of the basic rules, tactical concepts, and psychomotor skills of the different net games. Apply methodological and curricular knowledge for the teaching of net games. Plan short and long term for teaching different net games at different levels. Design assessment strategies to assess student learning. Face to face, hybrid, and online course

#### **EDFI4004 - Swimming Games and Aquatic Activities.**

*Three credits. Two hours of workshop, half an hour of lecture and half an hour of discussion per week*

*Prerequisites: EDFI3555*

Demonstrate mastery of the basic rules, tactical concepts, psychomotor skills of the different invasion games. Apply methodological and curricular knowledge for the teaching of invasion games. Plan short and long term for teaching different invasion games at different levels. Design assessment strategies to assess student learning. Face to face, hybrid, and online course

#### **EDFI4015 - Advanced Volleyball.**

*Three credits. One hour of lecture and three hours of laboratory work per week.*

Study and analysis of the game; offensive game; the selection of players by positions; the tactic game; practical problems in the coaching of teams; management and control of the players. (c)

#### **EDFI4018 - Methodology for Teaching Education at the Elementary Level.**

*Three credits. Prerequisites: EDFI3090, EDFI3115, EDFI3125.*

This course study the basic principles of the physical education curriculum for elementary school. Emphasis will be placed on the design, assessment, review, organization and adaptation of the content that better serves the needs and capacities of the students. the theoretical, philosophical and research approaches that establish curriculum principles, are discussed. Topics includes theories, teaching methodologies and evaluation, assessment, group management for the elementary level. Research principles and ethical issues in teaching elementary school level are discussed. Emergent technology as a teaching strategy for the elementary level is used. This course requires clinical observational experiences at an elementary school setting. Face-to-face, hybrid and online course

#### **EDFI4019 - Fundamentals for Tennis Teaching.**

*Three credits. Three hours of lecture per week.*

Analysis, and application of fundamental principles for teaching tennis. Proficiency of basic skills is required in order to demonstrate and teach the sport in class.

#### **EDFI4025 - Advanced Basketball.**

*Three credits. One hour of lecture and three hours of laboratory work per week Prerequisites: PHED 3035.*

Study and analysis of the game; offensive game; the selection of players by positions; the tactic game; practical problems in the coaching of teams; management and control of the players.

#### **EDFI4028 - Fundamentals for Softball Teaching.**

*Three credits. Three hours of lecture per week.*

Analysis, and application of fundamental principles for teaching softball. Proficiency of basic skills is required in order to demonstrate and teach the sport in class.

#### **EDFI4035 - Advanced Baseball.**

*Three credits. One hour of lecture and three hours of laboratory work per week Prerequisites: PHED 3065.*

Study and analysis of the game; offensive game; the selection of players by positions; the tactic game;

practical problems in the coaching of teams; management and control of the players.

**EDFI4036 - Fundamentals for Track and Field Teaching.**

*Three credits. Three hours of lecture per week.*

Analysis, and application of fundamental principles for teaching track and field. Proficiency of basic skills is required to demonstrate and teach the sport in class.

**EDFI4037 - Fundamentals for Swimming Teaching.**

*Three credits. Three hours of lecture per week Prerequisites: EDFI3441*

Analysis and application of fundamentals principles for teaching swimming. Proficiency of basic skills to demonstrate and teach the sport in class.

**EDFI4045 - Evaluation in Physical Education.**

*Three credits. Two hours of lecture and two of laboratory work per week.*

Fundamental and general consideration of test; introduction to research and analysis; use and limitations of test and evaluations; introduction to statistics; characteristics of a good test; kinds of test; validity of a test. (c) face to face hybrid and online course

**EDFI4046 - Fundamentals for Baseball Teaching.**

*Three credits. Three hours of lecture per week.*

Analysis, and application of fundamental principles for teaching beisbol. Proficiency of basic skills is required to demonstrate and teach the sport in class.

**EDFI4047 - Fundamentals for Football Teaching.**

*Three credits. Three hours of lecture per week.*

Analysis, and application of fundamental principles for teaching football. Proficiency of basic skills is required to demonstrate and teach the sport in class.

**EDFI4048 - Fundamental for Handball Teaching.**

*Three credits. Three hours of lecture per week Prerequisites: EDFI3555.*

Analysis and application of fundamental principles for teaching handball. Proficiency of basic skills is required to demonstrate and teach the sport in class.

**EDFI4049 - Fundamentals for Volleyball Teaching.**

*Three credits. Three hours of lecture per week Prerequisites: EDFI3555.*

Analysis and application of fundamental principles for teaching volleyball proficiency of basic skills is required to demonstrate and teach the sport in class.

**EDFI4056 - Fundamentals for Basketball Teaching.**

*Three credits. Prerequisites: EDFI 3555.*

Analysis and application of fundamental principles for teaching basketball proficiency of basic skills is required to demonstrate and teach the sport in class.

**EDFI4057 - Fundamentals for Gymnastic Teaching.**

*Three credits.*

Analysis and application of fundamental principles for teaching gymnastic. Proficiency of basic skills is required to demonstrate and teach the sport in class.

**EDFI4105 - Physiology and Physiology of the Exercise.**



*3 credits. Three hours of lecture and laboratory per week Prerequisites: EDFI 4115.*

Introduction to the study of the acute and chronic effects of physical activity on the functions of the human body applied to physical education, recreation, and sports. Discussion of theoretical concepts and practical application through laboratory experiences on physical conditioning and its relationship with the functions of the human body. Face-to-face, hybrid and online course.

### **EDFI4115 - Anatomy and Kinesiology.**

*Three credits. One hour of lecture and three hours of laboratory work per week.*

An introduction to the human body and its movements, based on lectures and demonstrations followed by a study of the organic system. Study of joint and muscle mechanisms. Analysis of working forces and movements of the body in relation to physical education. (c) face to face, hybrid, and online course

### **EDFI4125 - Administration and Supervision of Physical Education.**

*Three credits. Three hours of lecture per week.*

Effective procedures in relation with the organization, administration, and supervision in the field of physical education. the buying, care, and use of equipment. Distribution of time and space. Organization of routine procedures and activities necessary for an effective administration. Special emphasis will be given to activities at the secondary school level. (c) face-to-face, hybrid and online course. Effective for January 2021.

### **EDFI4130 - Preventive and Rehabilitative Exercise.**

*3 credits. Three hours of lecture per week.*

Introduction to exercise as a health alternative for youth, adults, and special populations. Prescription, injuries prevention, and relaxation techniques suited to the needs of the participants in exercise programs.

### **EDFI4135 - Introduction to Graded Exercise Testing.**

*3 credits. Three hours of lecture per week.*

Fundamentals of electrocardiography. Basic principles related to the administration of strength tests and prescription of physical exercise for healthy adults as well as persons with cardiovascular, pulmonary, or other chronic conditions.

### **EDFI4146 - the Law and Responsibility in Physical Education and Recreation.**

*3 credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Parameters of legal responsibility pertaining to the physical educator and recreation professionals concerning the performance of activities. Standards and guidelines related to security and supervision of games and sports in the areas of instruction, competition, and recreation. Application of those standards and guidelines to equipment use, facilities, physical education classes and organized recreation. Case studies.

### **EDFI4187 - Physical Conditioning for the Elderly.**

*3 credits. Three hours of lecture per week.*

Theories on aging and the principal ailments affecting the elderly. Exercises and physical activities that promote physiological, psychological, and social development within this group.

### **EDFI4235 - Principles of Exercise Programs for the Development of Physical Fitness.**

*Three credits. Three hours of lecture per week.*

Discussion of the scientific principles that apply to the design of exercise programs for the development of health-related components of physical fitness: cardiorespiratory, resistance, muscular strength and resistance, flexibility, and body composition. Face-to-face, hybrid and online course 13-08-02

### **EDFI4305 - Fundamentals of Sport Coaching.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Demonstrate mastery of the basic functions of sports coaching and the pedagogical strategies that effect sports training. Understand and apply the talent identification and development processes of young athletes. Plan short and long-term training for different populations. Examine the contemporary issues that permeate sports coaching and training. This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDFI4306 - Seminar on Sport Nutrition, Prescription of Exercise for Functional Diversity, Management of Facilities and Legal Aspects in Training.**

*Three credits. Three hours of seminar per week.*

Applied discussion of the fundamental concepts in sports nutrition, prescription of exercises in special populations, management of facilities and legal aspects in training. This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDFI4307 - Entrepreneurship and Management in Sport and Recreation.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

The aim of this course is to provide teaching learning experiences that emphasizes fundamentals, theories, and sport-recreation entrepreneurship concepts. The selection process, design, development and evaluation of sport- recreation entrepreneurship projects with business focus are promoted. Reflexive actions regarding effective leadership styles, budget and promotion in the sport and recreation entrepreneurship field is worked too. This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDFI5015 - Introduction to Research in Physical Education and Recreation.**

*Three credits. Three hours of lecture per week Prerequisites: EDFI 4045 AND RECR 4095.*

Introduction to the scientific method, research approach, literature review, theoretical and ethical aspects of data collection, data analysis and interpretation in the field of physical education and recreation. This course will be offered in face-to-face, hybrid, distance, and online modalities. Effective august 2021. 08-16-99

**EDFU3001 - Human Growth and Development I.**

*Three credits. Three hours of lecture per week.*

The first semester will be devoted to an inquiry on the nature of psychology as background for a better understanding of the educational process. the growth and development of children and adolescents will be examined as well as the natural and environmental forces which influence the development of a well-balanced personality. the second semester the student will analyze the psychological principles which underlie the teaching-learning process and the individual and social conditions which act upon it. Analysis of the process of evaluation and the principles underlying the creation of educational testing and grading. (c)

**EDFU3002 - Human Growth and Development II.**

*Three credits. Three hours of lecture per week Prerequisites: EDFO 3001.*

The first semester will be devoted to an inquiry on the nature of psychology as background for a better understanding of the educational process. the growth and development of children and adolescents will be examined as well as the natural and environmental forces which influence the development of a well-balanced personality. the second semester the student will analyze the psychological principles which underlie the teaching-learning process and the individual and social conditions which act upon it. Analysis of the process of evaluation and the principles underlying the creation of educational testing and grading. (c)

**EDFU3006 - Organization and Administration of School Libraries.**

*Three credits. Three hours of lecture per week.*

The role of the school library in the modern educational program; standards for school libraries; selection

and acquisition of books and other materials; cataloging and classification of books and administration of school libraries. Laboratory work in the libraries of the university elementary school and university high school will be an essential part of the course.

### **EDFU3007 - Social Foundations of Education.**

*3 credits.*

The social foundations of education course introduce the student to the study and analysis of the educational system base in the theoretical concepts of sociology, anthropology, economics, and political science disciplines. the principal theoretical perspectives that examined the educational aspects and implications are studied. the course explores the school as a social institution and its relations with other social institutions along with the historical, political, social, cultural, economic, technological, and legal factors affecting its operation. It critically examines the importance and the effect of these factors and processes in the curricula and educational practices, as well as the academic and social performance of the teachers and students. in addition, discussed the social function of the school and its relationship with social and educational equity. This course will be offered face-to-face, hybrid, distance and online. 08/2023.

### **EDFU3008 - Educational Implications of the Social and Economic Problems of Puerto Rico.**

*Three credits. Three hours of lecture per week.*

A condensed and intensive analysis and interpretation of the main social and economic problems of Puerto Rico, and of their educational implications. Population, production and distribution, standards of living, health, prostitution, crime, illegitimacy, race, education, and political status; their relationship with the school task in the community; and the possible solutions offered by the school for these problems.

### **EDFU3009 - Principles of Cataloging and Classification.**

*Three credits. Readings, lectures, and laboratory work.*

The theoretical and practical procedures for cataloging and classifying books and other materials. It comprises the study of the different kinds of card catalogs and systems of classification, especially the Dewey decimal system of classification, the organization of a dictionary card catalog and the study and determination of subject headings.

### **EDFU3010 - Foundations of Child Development.**

*Three credits.*

Study of the foundations of cognitive, social, emotional, and physical development in the human life cycle, with special attention to childhood. the various paradigms associated to these areas of development are discussed and analyzed from an integral perspective and their implications for primary education in Puerto Rico are examined.

### **EDFU3011 - Foundations of Human Development.**

*Three credits. Three hours of lecture and discussion per week.*

The course introduces future teachers to the study of the cognitive, social emotional and physical development in the human life cycle, with special attention to adolescence. the various paradigms associated to these areas of development are discussed and analyze from an integral perspective and their implications in Puerto Rico are examined.

### **EDFU3012 - Foundations of Educational Psychology.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: EDFU 3010 OR EDFU 3011. Corequisites: FAED 4001.*

The course introduces future teachers to the study of the psychological theories, investigations and innovations that explains the learning and thinking processes in the school context. Examines the basic

concepts of the behaviorist cognitive, sociocultural and humanist theories, among others in their relationship to school teaching, motivation, diversity and life together. Analyze their application to educational practice in contemporary Puerto Rican society. Requires field experience in school setting.

### **EDFU3013 - Evaluation of Learning.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 3001 AND EDFU 3002.*

The course intends to develop awareness in the teacher candidate about the philosophy of evaluation as part of the education process. It aims to promote student knowledge of quantitative and qualitative evaluation techniques and their applications. It will analyze the valid and reliable evaluation techniques to identify, stimulate, predict, and guide student behavior characteristics. It will include the appropriate techniques for differentiated and alternative assessment. Also, it will discuss the organization, presentation and statistical analysis of data obtained by measurement instruments and the interpretation of the data to make decisions related to teaching strategies.

### **EDFU3015 - Bibliography and Reference.**

*Three credits. Three hours of lecture per week.*

A study of the most important works in the different fields of research, including the basic types of reference materials; encyclopedias, dictionaries, yearbooks, handbooks, periodical indexes, and bibliographies.

### **EDFU3016 - Selection and Evaluation of Library Materials.**

*Three credits. Readings, lectures, and laboratory work.*

The study of the problem of selection of library materials and the different methods used for selection: bibliographic handbooks, guides, catalogues, books, reviews, etc. the study of the criteria used in the evaluation of materials.

### **EDFU3020 - Psychology of Reading.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 3001, 3002; EDFU 3017.*

Study of the reading process on the basis of psychological and cognitive orientation as well its educational implications. the course provides opportunities for getting acquainted with the various models to explain the development and consolidation of the reading process, as well as the psycholinguistic, sociolinguistic and pedagogical dimensions that underline it. Students will have the opportunity to study the ways in which reading achievement is measured.

### **EDFU3025 - Education for Family Life.**

*Three credits. Three hours of lecture per week.*

Importance of the family as a social and educational institution. Discussion of problems related to courtship, mate selection, husband-wife relationship, child-parent relationship, and the educational and social implications of these problems. (c)

### **EDFU3029 - Seminar of Personal Development.**

*One credits. Three hours of seminar per week.*

Personal growth experiences in small groups through which the student enters in a process of self-exploration and self-knowledge. It places emphasis on the student's values, attitudes, feelings, beliefs, motivations, and needs, in as much as these have bearing upon his personal and occupational performance. the seminar employs the group-counseling strategy in the process of giving and receiving aid. (c) 12-08-97

### **EDFU3030 - Education for Peace.**

*3 credits. Three hours of lecture per week.*

The central concepts, components, and practices of peace education are studied and critically analyzed.

Human rights, non-violence, the appreciation of diversity, conflict resolution, disarmament, and sustainable development are core themes. This course adopts an interdisciplinary perspective and is open to students from diverse faculties. Emphasis is placed on the interrelationship between theory, reflection and action in peace education initiatives. The proposals and implications that arise from peace education are explored in their relation to pressing social and educational issues globally and in Puerto Rico.

**EDFU3031 - Seminar: Child, Family, Society and Culture I.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Child center interdisciplinary seminar with field experience in different socioeconomic environment. (c)

**EDFU3032 - Seminar: Child, Family, Society and Culture II.**

*Two credits. Three hours of lecture and three of laboratory work per week Prerequisites: EDFU 3031.*

Child center interdisciplinary seminar with field experience in different socioeconomic environment. (c)

**EDFU3035 - School Discipline.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

A wide perspective on the models of discipline and the practical use of these models either in simulation or classroom.

**EDFU3036 - Evaluation in Early Childhood.**

*Three credits. Three hours of discussion per week Prerequisites: EDFU 3001 OR ECDO 3007; EDFU 3002.*

This course examines the foundations, methodology and interpretation of the evaluation process in the different stages of early childhood learning and development. Requires fifteen (15) hours of field experiences. 16-08-99

**EDFU3037 - History of Education in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Analysis of the changes that had happened in the Puerto Rican educational system as a result of the historical events in the Spanish colonization and in the change of sovereignty. It will discuss the ideas, problems, and historical views of this events.

**EDFU3046 - Health Education in the Elementary School.**

*3 credits. Two hours of lectures and one hour of laboratory per week Prerequisites: CONSENT OF THE DIRECTOR.*

Study of the basic content, objectives, organization, and implementation of a health program in the elementary school. Laboratory experiences required. (c).

**EDFU3050 - Health and Safety in the Education of Preschoolers.**

*Two credits. Two hours of lecture and one of laboratory work per week.*

Emphasizes the identification of problems, planning, and evaluation of health services and security in the education of preschoolers. Analyzes public policy, laws, and regulations in force. Requires a minimum of fifteen (15) hours of field experience. 16-08-99

**EDFU3055 - Legal Foundations of Education.**

*Three credits. Three hours of lecture and discussion per week.*

Legal aspects related with the overall process of education, the teachers, the students, and the community are examined and analyzed. Two analytical models or schemes will be used, the hierarchy of norms and the jurisprudence. The course includes, in its legal approach, the following aspects. Among others: the right to

education and the constitution of the commonwealth of Puerto Rico vis a vis the constitution of the United States, the special education law, the Puerto Rican department of education's organigram (functions, levels of authority and administrative apparatus), students and teachers civil rights and duties, corporal punishment, discipline, teacher's assaults, vandalism, drug abuse, laws related with child and youth's affairs, law number 30 (people access to schools), and the legal implications of aids in the school environment.

**EDFU3057 - Critical Thinking and Education.**

*Three credits. Three hours of lecture per week.*

Analysis of theoretical and practical models of the critical thinking applied to education.

**EDFU3070 - Biomedical Aspects of Health Education.**

*Three credits. Three hours of discussion per week Prerequisites: BIOL 3711-3712.*

Study of the general development of modern illnesses and its different levels of prevention. Includes de basic principles of epidemiology, microbiology, parasitology, and immunology; the

**EDFU3087 - Pedagogical Implications to Woman's Study.**

*Three credits. Three hours of lecture per week.*

This course analyses the pedagogical implications of the woman's study. It deals with the modeling of the cooperative learning skills and the epistemological and axiological models proper to this field of study.

**EDFU3095 - Aids: Education and Prevention.**

*Three credits. Three hours of lecture per week.*

This course discusses the biomedical, psychosocial, and legal-ethical aspects of immune deficiency acquired syndrome. It has a multidisciplinary and interdisciplinary focus, it is directed not only to the traditional university community but, also, to the Puerto Rican community, its public and private agencies and organizations and institutions. 21-01-97

**EDFU4001 - Seminar: Child, Family, Society and Culture III.**

*Two credits. Three hours of lecture and three of laboratory work per week Prerequisites: EDFO 3032.*

Child center interdisciplinary seminar with field experience in different socio-economic environment. (c)

**EDFU4002 - Seminar: Child, Family, Society and Culture IV.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: EDFU 4001.*

Child center interdisciplinary seminar with field experience in different socio-economic environment. (c)

**EDFU4003 - Seminar: Child, Family, Society and Culture V.**

*Two credits. Three hours of lecture and three of laboratory work per week Prerequisites: EDFU 3031-3032.*

Seminar for students in the special education program dealing with the discussion of field experiences in different cultural school environments and other social agencies and institutions at the service of exceptional children.

**EDFU4004 - Seminar: Child, Family, Society and Culture Vi.**

*Three credits. Three hour of lecture and three of laboratory work per week Prerequisites: EDFO 3031-3032.*

Seminar for students in the special education program dealing with the discussion of field experiences in different cultural school environments and other social agencies and institutions at the service of exceptional children.

**EDFU4006 - the Child and His Social Milieu.**

*Three credits. Three hours of lecture per week.*

Study of the child from the social and cultural viewpoints; analysis of the social forces and their effects on human behavior; the socializing function of the more important agencies and their contribution to the realization of educational objectives.

#### **EDFU4007 - Introduction to Educational Research.**

*3 credits. Three hours of lecture per week Prerequisites: EDFU3012 OR EDFU3007.* In this course different positions regarding the theoretical and practical problems of the methodologies used to conduct educational research are analyzed enabling possible problems are identified for the research and educational emphasis on the teacher as researcher. Tucked and different research techniques used to conduct research in education are also practiced. This course will be offered face-to-face, hybrid, distance and online. Effective august 2023.

#### **EDFU4008 - the Role of the Teacher in Guidance.**

*Three credits. Three hours of lecture per week.*

This course introduces teachers to the various facets of the guidance function and provides practical help in the operations of that function in the school. Emphasis is given to understanding the needs of children and youth, recognition of recent findings about child and adolescent development, ways of studying individual students, the dynamics of group interaction, the relationship of guidance and the curriculum, opportunities for guidance afforded to the teacher in the classrooms, homerooms, and cocurricular activities, cooperation with parents in encouraging pupil adjustment, and the ways of involving the total school staff in a coordinated guidance program.

#### **EDFU4009 - Montessori: Alternatives in Education.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

The course will familiarize the future teacher in early-childhood education in the Montessori method.

#### **EDFU4015 - Foundations of Public Health Education.**

*Three credits. Three hours of lecture per week.*

The role of education in developing basic concepts of public health and the means for preserving, improving and promoting individual and community health. Emphasis on public health problems in Puerto Rico and the contribution of the school and other agencies to their solutions. the prevention of illness, environmental sanitation, nutrition, personal, dental, and industrial hygiene, safety and first aid and mental hygiene.

#### **EDFU4016 - Basic Statistics in Education.**

*Three credits. Three hours of lecture and one hour of laboratory work per week.*

Introduction to the principles of statistics with special emphasis on non-parametric methods. Designed to prepare students for an advanced research course in education at a graduate level. It will cover elements in data collection, notions on probability, the normal curve, central tendency and dispersion, all these leading to the study of the most common non-parametric techniques. Laboratory experiences will be an essential part of this course.

#### **EDFU4017 - Ethics and Education.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 4019.*

This course deals with the philosophical foundations of ethics as it relates to the field of education. the analytical approach; concepts like value, axiology, morality, autonomy, heteronomy, equality, value clarification among others, concepts, and problems of the Puerto Rican education in the domain of the ethics. (c)

#### **EDFU4018 - Issues of the Puerto Rican Family and Their Educational Implications.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 3001 AND EDFU 3032.*

Through this course the student will study in depth the socio-historical background of the institution which is the Puerto Rican family. the change it has undergone from an agricultural society to an industrial one. Some of the topics to be discussed are the sacred responsibility in family rearing, economical emancipation of women, etc.

### **EDFU4019 - Philosophical Foundations of Education.**

*3 credits. Three hours of lecture per week.*

This course is an introduction to philosophical reflection on education. the purpose is that the students involved in the activity of philosophical education critical and imaginative way. Authors and currents of philosophical thought relevant to education are studied, from Socrates to today. They are discussed, considering different perspectives of interpretation, ontological questions, epistemological, ethical, and sociopolitical interviewing theorizing and practice education. Philosophies, educational theories and practices in Puerto Rico and other contexts are analyzed. the course, which is face, using various strategies of teaching, learning and assessment that stimulate the active participation of the students and reflection, analysis and questioning of ideas studied.

### **EDFU4025 - School Health Education.**

*Three credits. Three hours of lecture per week.*

A study of the health problems of pupils. the scope of an overall health program in the school; the healthy school environment; provisions for immediate health services; the development of desirable health habits and attitudes; the responsibility of the teacher in the program; the role of health education in the school and in the community.

### **EDFU4026 - Introduction to the Cognitive Theory of Jean Piaget and its Application to the Classroom.**

*Four credits. Three hours of lecture and one of laboratory work per week Prerequisites: EDFU 3001-3002.*

Through this course the student teacher will be able to understand the theory of Piaget and apply the same in his work as teachers.

### **EDFU4027 - Seminar on Group Dynamics.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 3001-3002, 3007, 4046.*

Study of the structure, interaction, and leadership in social groups. Special emphasis on the role of the teacher working with groups of adolescents, on the diagnosis of specific group problems and techniques for solving them in a democratic way. (c)

### **EDFU4028 - Aesthetics and Education.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 4019 OR ITS EQUIVALENT.*

This course introduces the future teacher into the realm of aesthetics theories and their relation to culture and education. The "Instituto de Cultura Puertorriquena" will offer practical experience through workshops and seminars with leading Puerto Rican artists.

### **EDFU4029 - Educational Psychology: Topics and Special Issues in Child Development.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 4002 OR EDFU 4038 OR EDPE 3046.*

Seminar on topics and fundamental issues in child development, emphasizing in the Puerto Rican child.

### **EDFU4035 - Communication and its Effect on Social Behavior.**

*Three credits. Three hours of lecture per week.*

The course will try to develop in the student a clear understanding of the process of human communication.



the variables involved and the psychological and sociological factors which affect and condition communication, to give the communicator or encoder scientific knowledge and control of the process. A study of the theory of communication and a survey of relevant theoretical fields, such as theories of learning, group theory, etc. A detailed analysis of various communicative vehicles will follow, comprising the written word, pictorial, photographic and graphic presentations, film with sound, radio and television. Opportunities will be provided for the students to develop skills and understanding pertaining to the effective utilization and the production of messages through these media.

**EDFU4036 - Issues, Problems and Legal Considerations Affecting Minors in Puerto Rico: Educational Implications.**

*Three credits. Three hours of lecture per week Prerequisites: ONE COURSE IN SOCIOLOGY AND EDFU 3007.*  
This course will give a foundation in the legal aspects and civil rights which affect the student and teacher.

**EDFU4037 - Logic, Language and Education.**

*Three credits. Three hours of lecture per week Prerequisites: FOR 3RD AND 4TH YEAR STUDENTS.*  
Introduction to applied logic in education. Analysis of the logical structure of communication in the schoolroom.

**EDFU4038 - Educational Implications of the Psychology of Childhood.**

*Three credits. Lectures, readings, discussions, and observations Prerequisites: EDFU 3001-3002 OR ITS EQUIVALENT.*

Psychology of childhood from birth to adolescence and its application to the problems of children in the school.

**EDFU4039 - Transactional Analysis and its Application in the Classroom.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*  
Theory and techniques of transactional analysis and its application and usefulness in the classroom.

**EDFU4040 - Transactional Analysis in Classroom - Games and Script - Second Part.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 4039.*  
Analysis and study of the games and scripts so as to apply it to obtain better discipline and environment in the classroom.

**EDFU4045 - Educational Implications of the Psychology of Adolescence.**

*Three credits. Lectures, readings, discussions and study of problems Prerequisites: EDFU 3001-3002 OR ITS EQUIVALENT.*

Psychology of adolescence, with special reference to practical behavior problems at home and at school.

**EDFU4046 - Mental Hygiene in Education.**

*Three credits. Lectures, readings, demonstrations, case studies and small group research.*  
A general consideration of the psychology of human adjustment with special reference to the mental health of both the teacher and the child. Emphasizes the preventive and remedial therapy of behavior problems, the relation of mental hygiene with the school and the community; mental conflicts and personality maladjustments in teachers and children; the understanding of human attitudes and behavior, human relations and mental hygiene.

**EDFU4047 - Sexual Education for Elementary and Secondary School.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 3025.*  
This course will deal with the methodology necessary for teaching sexual concepts for both elementary and

secondary school. Emphasis in sensitivity techniques which will help the teacher to deal with sexual problems in modern society. (c)

#### **EDFU4048 - Career Education.**

*Three credits. Three hours of lecture per week.*

The course comprises the study and analysis of the career education concept. Emphasis is given to the different ways in which all curriculum and guidance activities can be geared to prepare the individual for his economic independence and to the appreciation of the dignity of work. It also includes the discussion of the different existing occupations, the possible barriers in the achievement of the necessary skills and knowledge which allow incorporation in them, and the importance of the mastery of basic areas of knowledge allowing for a successful life in his particular occupation.

#### **EDFU4055 - Fundamentals of Environmental Sanitation.**

*Three credits. Three hours of lecture per week.*

A review of environmental sanitation and sanitary control of the environment with the purpose of preventing disease. Topics considered are air, water, soil, and food sanitation; pest control; the major problems concerning swimming pools, beaches and industrial establishment, and effective ways of dealing with them with existing resources.

#### **EDFU4056 - Problems of the Puerto Rican Adolescent.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 4045.*

Seminar for the study of the problems facing Puerto Rican adolescents. Analysis of the problems that the different socioeconomic environments presents and the possible effects in the aforementioned problems have on the physical, social and psychological changes that take place at this stage of human development and growth, intensive study of cases from the different socioeconomic levels. Implications for the secondary school teacher.

#### **EDFU4057 - Education and Rural Life in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

A research course concerning the rural social organization of Puerto Rico in order to understand the social environment of our rural school. An analysis of research work done by specialists in the field and a study of the techniques of social research. Emphasis will be given to the changing structure of our rural society, urban-rural inter-relationships, the nature of the curriculum for the elementary school of the rural community, and plans for the enrichment of rural life.

#### **EDFU4058 - Educational Implications of the Psychology of Adulthood.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 3001-3002.*

Study of the psychological principles necessary for understanding the post-adolescent and adult periods of life. Thorough study of adult education programs and teaching methods.

#### **EDFU4059 - the Nature of the Culture of Poverty and its Educational Implications.**

*Three credits. Three hours of lecture per week.*

Theories on poverty. the different aspects of the economics problems that face various groups in poverty areas. Aspects such as cultural change, geographical mobility, population, ecology, and the impact of these and other problems in the development of this culture and upon the school. Economic and educational implications of poverty with reference to Puerto Rico. the approach will be anthropological, sociological, and educational with emphasis on present-day Puerto Rico.

#### **EDFU4065 - Society, Economy, and Education in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

A study of culture and society in Puerto Rico and their relation to education. Study of the traditional and changing patterns of Puerto Rican culture; economic development and problems of social change in Puerto Rico; politics and the strategy of educational programming in a historical perspective; problems of educational control in Puerto Rico; natural and human resources and the social distribution of national production; population growth and structure and educational requirements; urbanization and industrialization and educational projections and social class and educational opportunities.

#### **EDFU4066 - Advanced Educational Sociology.**

*Three credits. Lectures, readings, reports, and discussion.*

An advanced course on the sociological foundations of education, dealing with the relation of education and such topics as: culture, socialization, social stratification, social control, social disorganization, and social change. The patterns of human relations within the school and the relation between the school and the community will be examined. Implications of these topics for education in contemporary Puerto Rican culture will be dealt with throughout the whole course.

#### **EDFU4067 - the Organization and Administration of Health Education Programs in School and Community.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 3007.*

Principles of organization and administration for health education programs in school and communities; factors promoting community developments; administrative structure and participating agencies; the various possible health services patterned and how these could be operational; ways and means of financing such programs, utilization of the human resources in the instrumentation of the health education programs.

#### **EDFU4992 - Seminar on Gender and Education.**

*One to Six credits. One to three hours per week.*

Explores the relationship between education and gender studies from an interdisciplinary perspective. The course approaches concepts such as difference diversity, and alterity in connection to the constitution of gender, sexuality, and race identities/subjectivities. It examines current debates on these topics from formal and informal educational contexts, and from theoretical and practical perspectives. It can focus on a diversity of disciplines, among others pedagogy, history, anthropology, sociology, philosophy, the arts, and literature. The course opens up possible research themes arising from discussions on inequality, knowledge androcentrism, as well as from the fundamental theory and practice of democracy and human rights. Courses on specific themes taught under this umbrella may be repeated up to three times as long as the topic is different.

#### **EDIN3005 - Basic Foundations of Vocational Education.**

*Three credits. Three hours of lecture per week.*

An analysis of the objectives governing the operation of the various types of vocational education programs.

#### **EDIN3006 - Special Methods in Industrial Education.**

*Three credits. Three hours of lecture per week.*

Practices in the techniques of analysis, determination of curriculum, content and preparation of instruction sheets in industrial vocational education.

#### **EDIN3008 - Elementary Plastics.**

*Two credits. Two-thre- hour periods of combined lecture and laboratory work.*

This is a basic course in plastics technology. An analysis of the different processes by which plastic products are manufactured, such as: injection molding, heat forming, extrusion, etc. Design and manufacture of

different plastics products.

**EDIN3009 - General Woodwork.**

*Four credits. Six hours of workshop and two hours of lecture per week.*

Work on a series of simple furniture pieces which give the students practice in the basic wood-working processes on the work bench with the most common hand tools. General principles and fundamental operations in simple wood-turning work, spindle and face plate turning.

**EDIN3015 - Technical Drawing.**

*3 credits. Two hours of discussion and four hours workshop per week.*

Principles of drafting with instruments for drawing mechanical plans. Includes the use of symbols design and problem solving the application of geometrical concepts in preparing simple parts. Provide applications for blue-print reading, design, diagrams, and CADD drawing.

**EDIN3016 - General Finishing.**

*Three credits. Four hours of workshop and two hours of lecture per week.*

Finishing on different materials; wood, metals, plastic, staw, etc. the use of stains, fillers, varnishes, enamels, acid bleaching and air spraying.

**EDIN3017 - General Crafts.**

*Three credits. Three hours of lecture and four hours of laboratory per week.*

Provides the student the basic principles to teach the exceptional children to prepare projects taking in consideration their age, intelligence, and special abilities. the course also deals with the correlation of the manual activities and the academic areas of instruction.

**EDIN3018 - Cabinet Making I.**

*Four credits. One hour of lecture and nine hours of workshop per week Prerequisites: INED 3009.*

Introduction to machine work. Table construction; paneling and drawer construction. Thorough training in the skills of the trade needed to meet satisfactorily the requirements of the woodworking shops of the Puerto Rican elementary and secondary schools.

**EDIN3019 - Introduction to Occupational Training.**

*Two credits. Two hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR OF THE DEPARTMENT.*

Three basic concepts having to do with the occupational world are studied: personality, work, and training. in relation to the first, the prospective teacher is expected to assist his student in knowing themselves and the importance of certain personality aspects that affect work. During the second, the prospective teacher is expected to learn how to put his students in contact with the world of work including the different occupations, employment opportunities, requisites and qualifications, future trends, human relations at work, labor organization and safety. the third is intended to help students in making occupational choices, how to be trained, job opportunities, economic assistance and self-evaluation of progress.

**EDIN3020 - Introduction to the Study of Technology.**

*3 credits. Two hours of lecture and four hours of laboratory per week.*

This course is an introduction to the study of technology and its implications for human beings. It is designed to develop mastery and necessary attitudes in students to understand the nature of technology. It includes understanding, analyzing, and discussing the changes caused by technology in the history of humanity. in this course are studied the concepts, functions, and modern practices of technological advances plus the creation of instruments and machines to facilitate human living. Students must design concepts of techno- logical instrumentation while they simulate possible tools for the future.

**EDIN3025 - Introduction to the Technology of Occupations.**

*Two credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

A study of the evolution of technology and its relation to science and industry. Analysis of the basic elements of technology such as machine, materials, process for converting raw materials and energy sources. Emphasis is placed on the function of information including its storage and processing of statistics. the relation between man and machines is studied including their design, construction, operation, and maintenance and how to use the human element to the maximum of its efficiency.

**EDIN3026 - Ceramics.**

*Two credits. One hour of lecture and three of laboratory work per week.*

A study of the processes of hand building, throwing and turning at the potter's wheel, and the techniques essential to decorating, glazing and firing of wares produced. Attention will be given to work that can be produced using Puerto Rican clay.

**EDIN3027 - Leather Crafts.**

*Three credits. Six hours of combined lecture and laboratory work.*

Introduction on designing, cutting, punching, lacing, stamping, tooling, and carving leather. Suggested projects: coin purses, key cases, belts, costume ornaments and jewelry.

**EDIN3029 - Cooperative Programs in Occupational Training Three Credits. Three Hours of Lecture Per Week. Prerequisites: INED 3005**

*3006. credits.*

Organization, administration, and evaluation of a cooperative occupational training program.

**EDIN4005 - Tests and Measurements for Industrial Vocational Education.**

*Three credits. Three hours of lecture per week.*

A course designed to develop knowledge of the relationship between scientific evaluation and effective teaching in industrial vocational education. the essential principles of psychometry as applied to shop courses; the construction, administration, interpretation, and application of achievement, performance, and aptitude test; the organization and presentation of evaluative data; and the conversion of raw scores to letter or standard grades as used in the school system of Puerto Rico.

**EDIN4006 - Labor Relations.**

*Three credits. Three hours of lecture per week.*

Development of the labor movement. Organized labor and its relations to industry and school. Labor legislation and its applications in Puerto Rico.

**EDIN4007 - Metal Technology.**

*Three credits. Two hours of lecture and two of laboratory work per week.*

Fundamentals and principles of metallurgy and metallography. Laboratory techniques and practical work in dimensional metrology, sheet metal, hand tool work, pattern making, foundry and metal casting. General framework, welding, and heat-treatment of metal. Metal cutting and shaping machine. Techniques and elementary practices. General principles of metal design, surface, polishing and finishing.

**EDIN4015 - Fiber, Reed, and Withe Weaving.**

*Three credits. One hour of lecture and four hours of laboratory work per week.*

An elementary course in the design, preparation, and construction of project, using different kinds of fibers,

reeds, and withe.

**EDIN4016 - Architectural Drawing.**

*Two credits. Two-two hours drawing periods per week Prerequisites: INED 3015.*

A brief course in essential principles and characteristics of architectural drawing. Elements of construction symbols and conventions, details, footing and foundations, etc. Working set of plans and elevations showing roof plan detail, sanitary and electrical installations, and auxiliary details.

**EDIN4018 - Advanced Graphics Arts.**

*Two credits. Four hours of combined lecture and laboratory work.*

Fundamental principles of the basic methods and procedures of lithography as applied to offset printing.

**EDIN4019 - Construction Technology.**

*Three credits. Two hours of lecture and two of laboratory work Prerequisites: INED 3009, INED 3018.*

A study of the world of construction to provide opportunity to learn and apply basic knowledge and skills of the construction industry. Readings and discussion are applied in laboratory activities to increase understanding of how projects are constructed and serviced. the world of construction is divided into three major sections: 1) an introductory section 2) an analysis of the management-personnel-production system of construction 3) a synthesis of housing construction practices on city and regional planning practices.

**EDIN4025 - Introduction to Electronic.**

*Three credits. Two hours of lecture and four hours of laboratory weekly Prerequisites: INED 4009.*

Introduction to the study of electronics and its applications to modern life. Study of laws and formulas for electromagnetism, inductive and capacity reactance; analysis of dc and ac circuits in series, parallel and series parallel. Study of electronic symbols and schematic diagrams. Use of instruments for trouble shooting. Problem solving and experimentation will be stressed in laboratory work.

**EDIN4026 - Individualized Instruction and Modules Preparation.**

*Three credits. Three hours of lecture per week Prerequisites: FOR TEACHERS IN VOCATIONAL SERVICE.*

Course to prepare industrial education teachers in the comprehension and use of resources and materials, teaching techniques and evaluation instruments applicable to this field. Special emphasis is given to individualized instruction through the use of training modules as well as instruments utilized with such system by the vocational instruction program and techniques of high skills. At the same time, as principal vehicle for the teaching of this course, its utilized 16 teachers training modules which offer the specific orientation on the application of the individualized instruction system for the training of student in industrial occupations and services.

**EDIN4027 - Advanced Course in Electronics.**

*Three credits. Two hours of lecture and four hours of laboratory work per week Prerequisites: INED 4025.*

Advanced concepts in electronics multivibrators, voltage regulators, transmission lines and antennas, television circuits, radar and microwaves, circuit design and analysis, semi-conductors and transistor circuits, digital computers, gaseous tubes, photoelectric control circuits, industrial electronics.

**EDIN4028 - Manufacturing Technology.**

*Three credits. One hour of lecture and four hours of laboratory work per week Prerequisites: BACHELOR IN ARTS.*

This course has the purpose of training industrial arts teachers about the basic concepts and methods of an organized manufacturing system. Includes the simulation of the mass production of articles in an industrial arts laboratory. Studies are made about management personnel, raw material, production planning and

process, distribution and service of products as developed in plant or factory. Activities include role-playing situations and laboratory experiences in designing, studying materials, developing and producing products.

**EDIN4029 - Shop Organization and Management.**

*Three credits. Three hours of lecture per week.*

A course designed to offer an opportunity for the discussion of problems related to shop organization and management. Includes practices and procedures in the field of industrial education, type of shop organization, layouts and housing, light, ventilation equipment, supplies, inventories and requisitions, community needs, records and reports, safety practices, organization of activities, student control and other shop administrative problems in vocational industrial education.

**EDIN4035 - Industrial Safety and Occupational Health.**

*Three credits. Three hours of lecture per week Prerequisites: INED 3005 AND INED 4029.*

Discussion and analysis of the basic principles related to industrial safety and health and its relation to the teaching of vocational industrial education.

**EDIN4045 - Applied Art and Design in Industrial Arts.**

*Two credits. Two hours of lecture and four hours of laboratory work per week Prerequisites: INED 3015.*

Application of the principles of art and design to the content of the several shop courses of the industrial art curriculum. This will be accomplished by means of free-hand sketching, mechanical drawing principles, etc.

**EDIN4046 - General Metalwork.**

*Four credits. Eight hours of workshop per week.*

Analysis of the different aspects of the metal industry. An introduction to the different methods by which metal products are manufactured, such as: sheet metal manufacturing, metals and casting, welding processes (oxyacetylene, arc, mig, and tig welding). Design and manufacturing of several metal products.

**EDIN4049 - Graphic Communications Technology.**

*Three credits. Two hours of lecture and four hours of laboratory per week Prerequisites: INED 3020*

Theory and practice of graphic design and composition, process cameras and darkroom procedures, photography, silk screen methods, platemaking, stripping, binding and finishing methods applied to the printing industry. 21-01-98

**EDIN4055 - Construction Drafting I.**

*Three credits. Two hours of lecture and four hours of laboratory work Prerequisites: INED 3015, 4045, 4016.*

Fundamentals of technical drawing for draftsmen. the theory of projection, applied geometry, orthographic drawing, development of intersections, pictorial drawing, free hand sketches in order to develop the necessary skills for the preparation of working drawings and layouts used in industry.

**EDIN4059 - Power Technology.**

*Three credits. Two hours of lecture and four hours of laboratory work per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Introduction to the study of power technology. Analysis of power technology. Analysis of power production as prime mover of modern industrial technology. Methods used to convert energy into power. Emphasis is given to actual energy crisis and the need for alternatives.

**EDIN4065 - Curriculum and Methodology for the Teaching of Industrial Vocational Education to Exceptional Adolescent.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 3027, SPED 4006.*

Curriculum modifications and teaching strategies appropriate for teaching industrial vocational education to exceptional adolescent.

**EDIN4085 - Curriculum and Teaching Strategies for Teaching Industrial Arts to Exceptional Adolescent.**

*Three credits. Three hours of lecture per week Prerequisites: SPED 3027, SPED 4006, PERMISSION OF THE DIRECTOR.*

Curriculum modifications and teaching strategies appropriate for teaching industrial arts to exceptional adolescents.

**EDIN4095 - Computer Use for Design and Numerical Control Cad-cnc.**

*Three credits. Two hours of lecture and four hours of workshop per week Prerequisites: INED 3015.*

Study of microcomputers and their application in design and numerical control of machines.

**EDIN4105 - Transportation Systems Technology.**

*Three credits. Two hours of discussion and four of laboratory work per week Prerequisites: EDIN 3020*

Study of the transportation systems designed and used by human beings for the displacement of people and products over land, sea, air, and space. Includes the evolution of transportation systems, technology systems, ecology and problem solving. Requires laboratory experiences. 12-08-97

**EDIN4106 - Design and Evaluation of Training Programs.**

*Three credits. Three hours of discussion per week Prerequisites: EDIN3006*

Studies related to curriculum foundations and different models that apply to course content design for occupational education. the course is directed for occupational education in service and future teachers to prepare them in all aspects of design and development of specialized contents for technical training in vocational schools and technical institutes. Participants will analyze and design according to the characteristics of occupational and technical curriculum and implement it in a real scenario.

**EDPE3001 - Linguistic Notions of Content and Methods for the Teaching of Spanish in the Elementary School.**

*Two credits. Three hours of lecture and one of laboratory work per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

Theories of language content of methodology of all the language arts. Listening, talking, writing, pictorial appreciation and creation. (c)

**EDPE3002 - Linguistic Notions of Content and Methods for the Teaching of Spanish in the Elementary School.**

*Two credits. Three hours of lecture and one of laboratory work per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

Theories of language content of methodology of all the language arts. Listening, writing, pictorial appreciation and creation. (c)

**EDPE3003 - the Teaching of the Language Arts in the Elementary School.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: SPAN 3101-3102.*

the vernacular as an instrument of learning in the elementary school; the nature of the linguistic process; the importance and functions of the vernacular as an instrument for communication and expression; the relationship between the process of development and growth of the human being and the development of language; language arts as part of the general curriculum, the progressive teaching program for the vernacular in its listening, speaking, reading and writing context; the techniques, teaching aids and other



resources available for the development of language proficiency.

**EDPE3004 - Diagnosis and Correction of Deficiencies in Reading and Writing.**

*Two credits. Three hours of lecture and discussion per week Prerequisites: EDPT 3031-3032.*

Study of the difficulties in reading and writing in the elementary school with emphasis in diagnosis and correction of such difficulties. Discussion of tests and techniques for diagnosis. Field experiences required.

**EDPE3006 - Teaching of Social Studies in the Elementary School.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: CONSENT OF THE DIRECTOR OF THE DEPARTMENT.*

Curriculum trends, instructional practices, teacher pupil planning and evaluation, unit organization, use of community resources. Clinical experience required. (c) face to face, hybrid, and online course

**EDPE3010 - Teaching Social Studies Fourth-sixth.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: CISO3121, CISO3122 EDFU3007*

This course is a compulsory course for all students in the elementary school program. The course aims to offer to the future teacher, relevant skills related to this area. There will be particular attention to the concepts and generalizations that nourish the contents of social studies which have been derived from the broad field of knowledge in the social sciences, history, geography, sociology, anthropology, psychology, science, politics, and economics the curriculum of the elementary school social studies will be analyzed. This course exists in other campus. Created for UPR-RP since January 2015.

**EDPE3011 - the Teaching of Mathematics in the Elementary Level K-3.**

*3 credits. Three hours of lecture and one hour of laboratory per week Prerequisites: APPROVE THE CORRESPONDING COURSE OF THE AREA OF LOGICAL MATHEMATICAL REASONING ACCORDING TO THE STUDENT'S CONCENTRATION, SOME OF THESE COURSES MAY BE*

Methodology and basic content of mathematics in elementary school, kinder to third grades. It emphasizes the mathematical content that prospective teachers need to teach this discipline, problem solving methods and the integration of technology to teach this subject. The recommendation offered by different professional organizations on the teaching of this discipline are studied, and documents related to this matter are analyzed. Also, the student is introduced to the professional literature related to the teaching of mathematics. This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDPE3012 - the Teaching of Mathematics in the Elementary Level K-3.**

*3 credits. Three hours of lecture and one hour of laboratory per week Prerequisites: APPROVE THE CORRESPONDING COURSE OF THE AREA OF LOGICAL MATHEMATICAL REASONING ACCORDING TO THE STUDENT'S CONCENTRATION, SOME OF THESE COURSES MAY BE*

Methodology and basic content of mathematics in elementary school, kinder to third grades. It emphasizes the mathematical content that prospective teachers need to teach this discipline, problem solving methods and the integration of technology to teach this subject. The recommendation offered by different professional organizations on the teaching of this discipline are studied, and documents related to this matter are analyzed. Also, the student is introduced to the professional literature related to the teaching of mathematics. This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDPE3013 - Teaching the Vernacular at the Elementary School.**

*3 credits. Three hours of discussion per week.*

Analysis of the linguistic system's structure as a conceptual framework to promote the development of language and thought. The content, methodology and materials are studied to prepare students for the teaching of the vernacular in the elementary level, with emphasis in oral language. Field experience is

required. This course will be offered in face-to-face, hybrid, distances, and online modalities.

**EDPE3017 - the Teaching of Music in the Elementary School.**

*Three credits. Three hours of lecture per week Prerequisites: FIFTEEN*

The study of music in relation to the social, intellectual, physical, and cultural development of the individual; its importance in the school curriculum and in the life of the community. Introduction to the materials used in teaching the different aspects which are included in the music education program (songs, rhythms, folk dancing, musical instruments, film strips, etc.) fundamentals and theory presented as a means of developing better appreciation of the art of music.

**EDPE3018 - the Teaching of English as A Second Language.**

*Three credits. Three hours of lecture per week.*

Analysis of the nature and function of language: study of the phonological, morphological and syntactic characteristics of American English and the basic differences between it and the Spanish spoken in Puerto Rico; study of the principles underlying the teaching of foreign languages; analysis of the problems arising, when teaching English to Puerto Ricans; specific methods; examination of textbooks used in Puerto Rico; plan development for guiding and evaluating the teaching of English as a second language. Laboratory experiences in the elementary schools is required. (c)

**EDPE3020 - Music and Corporal Movement in the Primary Grades.**

*Three credits. Three hours of discussion per week.*

Integration of music and corporal movement as fundamental elements for the physical/motor, cognitive, affective, social, and cultural development of primary level student in the regular, special, and integrated mainstream. Emphasis in a planning. Execution and evaluation of psychomotor and rhythmic activities. Demonstration and practice are required. (c)

**EDPE3025 - Remedial Course on Basic Writing Skills with Special Emphasis on Orthography.**

*Two credits. Three hours of laboratory work per week Prerequisites: STUDENT MUST BE REFERRED BY A PROFESSOR AFTER EVALUATION.*

The course aims at strengthening the basic writing skills with particular emphasis on the importance and use of orthographic rules. As remedial course, it will attend to the needs of both elementary and secondary level students.

**EDPE3026 - Science in the Secondary School.**

*Three credits. Two hours of lecture and two laboratory work per week.*

Three credits. Two hours of lecture and two laboratory work per week.

**EDPE3030 - Reading and Writing: Basic Processes.**

*Three credits. Three hours of discussion and field work per week.*

Study and analysis of the principles that serve as a foundation to the development of literacy skills in the elementary school students. Development of competencies that enable the student to learn and apply critically educational approaches, methods, techniques, and strategies to teach reading and writing.

**EDPE3031 - the Teaching of Reading and Writing in Preschool and Primary Level.**

*Two credits. Two hours of lecture per week Prerequisites: EDPT 3002.*

Two credits. Two hours of lecture per week Prerequisites: EDPT 3002.

**EDPE3032 - the Teaching of Reading and Writing-grade Fourth to Sixth.**

*Two credits. Two hours of lecture per week Prerequisites: EDPT 3002.*

Two credits. Two hours of lecture per week Prerequisites: EDPT 3002.

**EDPE3034 - Assessment and Diagnosis in the Literacy Process.**

*3 credits. Three hours of lecture per week.*

Study and analysis of the various factors involved in the learning of literacy in relations to the assessment and evaluation of the diagnosis; support for literacy processes, and behaviors and instruments that strengthen the validity and reliability of the process and the product of the assessment and teaching, its authentic, continuous, holistic, and functional character. This course will be offered face-to-face, hybrid, distance, and online modalities.

**EDPE3038 - Design for Teachers of Art.**

*3 credits. Four hours of laboratory work per week Prerequisites: ART 3127.*

Designing with media and structures which are adaptable to art teaching at various levels in the elementary and secondary school. Emphasis on the function of basic design in the art curriculum of the schools of Puerto Rico. (c

**EDPE3039 - the Arts in Early Childhood Education.**

*Three credits. Three hours of lecture and discussion per week.*

Study of the contribution of music and the plastic arts to the integral development of the child. Analysis of their influence upon the development of his creative and socialization processes. Emphasis upon the selection of materials according to the different levels of child development. Study of the means used to acquaint children with these arts.

**EDPE3040 - Theater Techniques for the Elementary School.**

*Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week.*

Study of different theatrical manifestations (creative drama, puppet theatre, pantomime, readers theatre, fluorescent theatre, and others) and its application to the teaching-learning process in the elementary school.

**EDPE3041 - Science in the Elementary School.**

*Three credits. Two hours of lecture and two hours of laboratory work per week.*

Three credits. Two hours of lecture and two hours of laboratory work per week.

**EDPE3045 - the Plastic Arts in the Elementary School.**

*Three credits. Three hours of lecture per week.*

The different stages of creative youth, laboratory work including experimentation and practice with different media, methods of teaching art in the elementary school and evaluation of student's work.

**EDPE3046 - the Plastic Arts in the Secondary School.**

*Three credits. Three hours of lecture per week.*

Study of the different stages of creative youth of the adolescent, methods, practice and experimentation with different media, evaluation of student's work and artistic display techniques.

**EDPE3047 - Seminar on Creative Dramatics for the Elementary School.**

*Six credits. Three hours of lecture and discussion and three hours of workshop per week.*

Six credits. Three hours of lecture and discussion and three hours of workshop per week.

**EDPE3048 - Integrated Course in Chemistry and Physics for Elementary School Teachers.**

*3 credits. Two hours of lecture and one hour of laboratory work per week Prerequisites: CONSENT OF THE*

**DIRECTOR.**

Fundamental principles and concepts of biology, physics and chemistry for elementary school teachers. Stress is given to interrelationships among principles and concepts in these areas. Face to face, hybrid and online course

**EDPE3049 - the Kindergarten in the School Program.**

*Three credits. Three hours of lecture and discussion per week.*

A general survey of the education of pre-school children; the suggested curriculum for their personal and academic improvement and mastery of the skills necessary for them to function adequately. Includes lectures, discussion, the preparation of teaching materials and classroom laboratory work. Outstanding literature on the subject will be studied. (c) this course will be offered face-to-face, hybrid and online modalities.

**EDPE3050 - Plastic and Performing Arts in the Primary Grades.**

*Three credits. Three hours of discussion per week.*

Study and analysis of the strategies, skills, and knowledge in the teaching of the visual and theatrical arts in the primary level. It offers the opportunity to select, develop, explore, experiment, and evaluate creative activities related to these arts. (c)

**EDPE3051 - the Teaching of Biology for Teachers of Intermediate School I.**

*Four credits. Three hours of lecture per week.*

The biology content to be taught in seventh grade. It also includes the methodology and techniques applied in this area. Due to its own nature, the course exposes students to laboratory experiences.

**EDPE3052 - the Teaching of Biology for Teachers of Intermediate School II.**

*Four credits. Three hours of lecture per week Prerequisites: EDPT 3051.*

The biology content to be taught in seventh grade. It also includes the methodology and techniques applied in this area. Due to its own nature, the course exposes students to laboratory experiences.

**EDPE3055 - Introduction to Children Literature.**

*Two credits. Two hours of lecture per week Prerequisites: EDPT 3001, 3002.*

This course studies the significance of language from different points, going from everyday communication to the refined literary levels, in the light of the Puerto Rican child realities.

**EDPE3056 - Perceptual Motor Development Through Corporal Movement in Primary Level.**

*Two credits. Two hours of lecture and one of laboratory work per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Enables the student to organize, select, guide, execute and evaluate movement activities that will stimulate the perceptual motor development of the primary grade children. (c)

**EDPE3058 - the Teaching of Grammar in the Elementary Level.**

*Three credits. Three hours of lecture per week.*

The teaching of Spanish grammar following a systematic approach closely related to the language arts and the cognitive development of the elementary school student. (c) face to face, hybrid, and online course 21-01-97

**EDPE3060 - Literacy Development in the K-3 Primary Level.**

*Three credits. Three hours of discussion per week Prerequisites: EDPT 3002.*

Analysis of the principles that lay the foundation for the development of the reading and writing processes in

the primary level. It fosters the acquisition of skills needed to be able to implement approaches, methods, and techniques to teach reading and writing. It requires field experiences. (c) this course face-to-face, hybrid, distance, and online modalities. Effective January 2022. 19-08-96

**EDPE3061 - the Teaching of Physic Science for Teachers of Intermediate School.**

*Four credits. Four hours of lecture per week.*

The physic science content taught in seventh grade. It also includes methodology and techniques applied in this area. Due to its own nature, the course exposes students to laboratory experiences.

**EDPE3062 - the Teaching of Physic Science for Teachers of Intermediate School.**

*Four credits. Four hours of lecture per week Prerequisites: EDPT 3061.*

The physic science content taught in seventh grade. It also includes methodology and techniques applied in this area. Due to its own nature, the course exposes students to laboratory experiences.

**EDPE3067 - Linguistic Development in Preschool Children.**

*Three credits. Three hours of lecture per week.*

Study of oral and written language development as an integrated process from birth to age four. Design of appropriate activities that foster oral and written language development. Analysis of procedures to select and adopt materials. (c) this course will be offered face-to-face, hybrid and online modalities. 12-01-2000

**EDPE3068 - Introduction to the Montessori Method.**

*Three credits. Three hours of lecture per week.*

Study through lectures and workshops of the Montessori philosophy and methodology.

**EDPE3069 - Science Teaching in Elementary Level K-3.**

*3 credits. Three hours of lecture per week,*

The study of the nature of science with an emphasis on its attributes, content, methodology and values. Appropriate science learning practices are modeled and analyzed at the k-3 level. in addition, the appropriate assessment techniques and instruments for this level are discussed. It requires additional hours for field experience. This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDPE3070 - Literacy Development in the 4th-6th Grades.**

*3 credits. Prerequisites: EDPE 3013, EDPE 3060.*

Analysis of the fundamental principles and methodologies in the teaching and learning processes of literacy in grades four through six. Practical experiences are required in using the appropriate methods, materials, and activities to teach reading and writing at these levels. This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDPE3075 - Curriculum and Methodology in the Teaching of Socioeconomic Courses for the Minors of Secretarial Sciences, Accounting and Marketing.**

*3 credits. Three hours of lecture per week.*

A generic course for future teachers in the areas of accounting, secretarial sciences, and marketing. Discussion and analysis of the general aspects of the organization and methodology of teaching, assessment techniques and the use of technology in teaching. Development of thinking skills. the students will work each subject of the course on his/her particular area of interest.

**EDPE3086 - Systematic Approach to Laboratory Experiences in Business Education.**

*2 credits. One hour of lecture and two hours of laboratory work per week Prerequisites: EDPT 4047, EDPT 4048 OR EDPT 4049.*

Systematic perspective of the lab experiences for commercial education in public and private schools of the secondary and post-secondary levels. the student-teacher will familiarize with the school context, the physical facilities, the services and lab areas of a commercial education program. in addition, the student, participates in activities related to class administration, systematic observation, and in the active and gradual process of teaching and learning. This course requires field experiences.

### **EDPE3105 - Teaching and Use of the Metric System.**

*Three credits. Two hours of lecture and two hours of laboratory work per week.*

the metric measurement system and its use in the different fields: educational, scientific, and in daily life. Technological and interdisciplinary approach.

### **EDPE3106 - Teaching Statistics and Probability in Elementary Grades.**

*3 credits. Three hours of lecture per week Prerequisites: EDPE 3012 OR EDPE 3011.*

The course will provide prospective elementary teachers, the opportunity to meet some content issues including the teaching of statistics and probability. It also integrates the discussion of activities that can be used to teach concepts related to this material. This will enable them to process the knowledge they need to teach this content in their professional practice. in addition, they provide students, alternative use of technological tools and manipulatives to develop the concepts. Similarly, it will enable them to integrate it into math classes they will teach. This course will be offered in face-to-face, hybrid, distance, and online modalities. New description begins in January 2022.

### **EDPE3117 - Workshop in the Preparation of Educational Materials and Learning Aids for Elementary School Mathematics.**

*Three credits. Three hours of lecture per week.*

Seminar-workshop to design and to prepare educational materials to facilitate the teaching of mathematics in the elementary school level. Students will use their creativity to convert inexpensive and disposable supplies in teaching materials. Evaluation of educational commercial resources analysis and demonstration of different strategies and devices that teacher may use to enrich math courses, such as: instructional modules, use of math games, computer programs, bulletin boards, daily life math.

### **EDPE3118 - Geometry and Measurement for Educators.**

*3 credits. Three hours of lecture per week.*

The course emphasizes the following topics: how the child learns mathematics, learning processes in mathematics, basic Euclidean ideas, two and three dimensional figures, polygons, circle, similarities, congruencies, transformations, area, perimeter, volume, system of measurements. Different strategies are used to integrate the mathematical content with the methodology of teaching geometry and measurement at the elementary level. the strategies, models and activities presented in the course are based on the results of research in the field, on the recommendations of professional organizations and on the curricular standards for the teaching of mathematics presented by the department of education of Puerto Rico. This course will be offered in face-to-face, hybrid, distance, and online modalities.

### **EDPE3119 - Concepts of Algebra for Elementary Level Educators.**

*3 credits. Three hours of lecture per week.*

The major emphasis of the course is toward the study of the following topics: learning mathematics, problem solving, sets, numbering, integers, number theory, rational numbers, real numbers, graphs, and functions. the teaching methodology will constitute one of the main components of the course. Methodological applications will be incorporated into class discussions. Importance will be given to problem-solving strategies across all topics. Different technological tools will be used to teach algebraic concepts. This course will be offered in face-to-face, hybrid, distance and online modalities.

**EDPE3120 - Teaching Geometry to Talented Students in Secondary School.**

*Three credits. Three hours of lecture and discussion per week.*

Emphasis on the content and methodology of geometry, the discovery method, laboratory and problem solving. the geometric content from the intermediate to the high school level will be identified and analyzed.

**EDPE3127 - Scientific Research with Pedagogical Approach.**

*Three credits. One and a half hour of conference and one and a half hour of workshop per week Prerequisites: EDPT 3026.*

Designed for prospective teachers majoring in science education. It requires the planning and implementation of a research project in the physical or biological sciences. Detailed consideration will be given to the method used in scientific research as a component of the task of science teaching in the elementary and secondary schools.

**EDPE3129 - the Use of Microcomputers in the Classroom.**

*Three credits. Three hours of lecture per week.*

Introductory course on the role of microcomputers in the classroom. Special emphasis will be given to the use of microcomputers in the school setting, resources that are available to the classroom teacher, and how to integrate computers to teaching. Workshop experiences and special assignments will complement class discussions.

**EDPE3135 - General Science for Elementary School Teachers.**

*Two credits. Two hours of discussion per week.*

Study of the basic integrating concepts of biology, physical sciences, earth and spatial science for primary level teachers (k-3). the scientific concepts are developed using the corresponding methodology with emphasis in the inquiry method and in the basic and integrated processes. Field experiences required. (c) 12-08-97

**EDPE3145 - Music for Early Childhood.**

*Three credits. Three hours of discussion per week.*

Study of selection criteria and creation of musical activities in early childhood education. Organization, development, and evaluation of activities that promote development in infants and preschool children. Face-to-face, hybrid and online course. Effective January 2021. 12-01-2000

**EDPE3155 - the Development of the Thinking Skill in the Social Studies.**

*Three credits. Three hours of discussion per week.*

Study and analysis of the methodology that promotes the development of the thinking skills in the social studies for elementary and intermediate level students. Face to face, hybrid and online course

**EDPE3205 - Educational Mediation Centered in the Individual Needs.**

*Two credits. Two hours of discussion per week.*

Analysis and study of approaches, models, methodologies and development of educational techniques to individualize the teaching and learning process according to the student's particular needs. Field experiences are required. (c)

**EDPE3215 - Adult Educator Function.**

*Three credits. Three hours of lecture per week.*

Study and critical analysis of the teacher's function in adult education. Emphasis in the competencies and characteristics that the adult educator should possess and its application in diverse settings. Field

experiences are required outside class hours. 08-06-98

**EDPE3235 - Teaching Methodology of Literary Genres and Thinking Skills.**

*Three credits. Three hours of lecture per week.*

Analysis of the comprehension process and the internal mechanisms of reading literary genres within a teaching-learning situation. They are studied as mediators between the text and the development of thinking skills.

**EDPE3236 - Nature of Science for Elementary School Teachers.**

*Three credits. Three hours of lecture per week.*

Study of the nature of sciences as a subject-matter, placing emphasis on its attributes, content, methodology and values. In addition, the course intends to analyze the present relationship among science, technology and society; and to offer students the opportunity to become familiar with scientific research and to visit a variety of related scenarios. This course will be offered face-to-face, hybrid and online modalities.

**EDPE3237 - Science Teaching At the Elementary Level (4th-6th Levels).**

*3 credits. Three hours of lecture per week.*

Study of the importance, approaches, trajectory of science education, the implications in its teaching and learning at the elementary level. The analysis and application of the methodologies that promote the development of scientific culture is emphasized. It includes the study of public policy, new trends and controversies related to the teaching of science. The student will relate to the pedagogical investigation of the teaching of science and carry out field experiences. This course will be offered under the classroom face-to-face, hybrid and online modalities.

**EDPE4001 - Theory and Methodology of Teaching in the Elementary School I.**

*Three credits. Three hours of lecture per week.*

Review of the philosophy and objectives of education and the study of the educational system of Puerto Rico; the curriculum of the elementary school as well as those aspects of the child's health which every elementary school teacher must know to understand and direct him better in his learning; general aspects of the organization and methodology of teaching. The student participates in a series of especially designed observations in the public and private schools.

**EDPE4002 - Theory and Methodology of Teaching in the Elementary School II.**

*Three credits. Three hours of lecture per week.*

The study of the curriculum of the student's area of specialization, based on the present programs of the educational system and the innovations in these curriculum areas. Students participate in a series of clinical experiences in private and public schools.

**EDPE4007 - Children's Literature for Children.**

*3 credits. Three hours of lecture and discussion per week.*

A critical study of the form and content of literature for children (3 to 12 years old) from ancient folklore to modern writing. Critical selection of a universally representative anthology of stories for children and ways of developing an appreciation of literature in elementary school children in Puerto Rico. Study of problems and laboratory projects including production of creative literary projects. This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDPE4008 - the Teaching of Reading in the Elementary School.**

*Three credits. Three hours of lecture per week.*

Discussion and analysis of the different aspects related to the organization and development of the reading



program in the elementary school: child development and reading principles and foundations of reading; reading practices currently in use, selection and use of reading materials, diagnosis and correction of reading difficulties.

**EDPE4010 - Teaching of the Written Discourse in Elementary School.**

*Three credits. One hour and a half of discussion and one hour and a half of workshop per week.*

In this course the student will review and analyze the theoretical principles, strategies and methodologies that are needed in order to teach the written discourse in elementary grades (k-6). The course, which is intended for prospective teachers in elementary school, delivers a practical approach to the written process, its components and stages. From a critical and a practical perspective. The student will work with theoretical and literary texts in order to create a variety of written discourses, and with the design of pedagogical plans that incorporates strategies and techniques adequate for the writing process. Face to face online and hybrid course. Effective January 2021.

**EDPE4011 - Early Childhood Curriculum.**

*Three credits. Three hours of lecture per week Prerequisites: EDFO 3032.*

Study of basic principles underlying curriculum construction and innovative instructional practices in major areas of early childhood. Emphasis on the integration with other areas and the importance role of play, exploration, experimentation and solving problems in the early child curriculum. (c)

**EDPE4012 - Early Childhood Curriculum.**

*Three credits. Three hours of lecture per week Prerequisites: EDFO 3032, EDPT 4011.*

Study of basic principles underlying curriculum construction and innovative instructional practices in major areas of early childhood. Emphasis on the integration with other areas and the importance role of play, exploration, experimentation and solving problems in the early child curriculum.

**EDPE4016 - Practicum in Teaching of Elementary English.**

*6 credits. Twenty hours of practice per week Prerequisites: TO COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that the teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. A university professor a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4017 - Integration of Abbreviation Systems for Writing in Spanish.**

*Three credits. Three hours of lecture per week Prerequisites: ESPA 3102.*

This course focuses on learning various abbreviated systems (Shorthand in Spanish and speed writing). Provides the student with the knowledge and skills for taking dictation and for transcription in Spanish. The teacher candidate will be guided towards the analysis and study of teaching skills and its essential components. In addition, teacher candidates develop skills related to the basic grammar rules of writing in Spanish.

**EDPE4021 - Seminar: Curriculum, Instruction, Learning and Evaluation.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: EDFO 3031-3032.*

Study of basic principles of instruction in elementary schools with major emphasis upon selection, organization, and sequential arrangement of materials to meet the needs, styles and capacities of children.

**EDPE4022 - Seminar: Curriculum, Instruction, Learning and Evaluation.**

*Two credits. Three hours of lecture and three of laboratory work per week Prerequisites: EDFO 3031-3032, EDPT 4021.*

Study of basic principles of instruction in elementary schools with major emphasis upon selection, organization, and sequential arrangements of materials to meet the needs, styles and capacities of children.

**EDPE4029 - Teaching Modern Grammar in the Elementary School.**

*Two credits. Two hours of lecture per week.*

Teaching of grammar through a systematic approach through the language arts and the intellectual development of the child from elementary level.

**EDPE4030 - Manipulatives and Technology in Secondary Mathematics.**

*Two credits. Two hours lecture per week Prerequisites: MATE3151,3152,3040,3019,3026 (OR MATE3101 OR EDFU4016)*

the course will provide the student teachers the opportunity to learn about different virtual manipulatives for integration into the teaching-learning process secondary level students. Also, will provide alternative use of technological tools for the development of mathematical knowledge which is covered in the level that is going to teach. Face to face, hybrid and online course

**EDPE4034 - Constructivist Strategies for Reading Comprehension.**

*Three credits. Three hours of lecture per week.*

Students will develop skills to propitiate the development of reading comprehension in kindergarten to 6<sup>th</sup>. grade students through the study and analysis of literary genres and other discursive modes. This course will be offered in face-to-face, hybrid distance and online modalities. New descriptions began on January 2022.

**EDPE4035 - Creative Expression in the Early Years.**

*Two credits. Three hours of discussion per week.*

Study and analysis of creative expression during early beginning developmental stages; its role in the wholistic development of children and early childhood education. Study of appropriate practice for early childhood. Emphasis on theory and practical experiences. 08-16-99

**EDPE4036 - Neurobiological Development: Implications for the Education of Early Childhood.**

*Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week Prerequisites: HAVE TAKEN TWO COURSES OF METHODOLOGY K-3.*

Analysis of the neurobiology research during the last twenty (20) years and their implications for the early childhood. the structure and function of the different parts of the brain related with memory and learning will be discussed. the stages of development and brain plasticity will be emphasized. 08-16-99

**EDPE4037 - the Teaching of Marketing in the Secondary School.**

*Three credits. Three hours of meeting per week Prerequisites: COMPLETION OF AT LEAST 15*

Analysis of instructional techniques in the area of distributive education as perceived in the current offering at our secondary and post-secondary schools. Laboratory experiences will be organized according to the various units of instruction.

**EDPE4038 - Science Teaching Technique for Elementary School.**

*3 credits. Three hours of lecture per week Prerequisites: EDPE 3048.*

Study of different techniques used in the teaching of science with emphasis in investigation, use of materials and equipment common to science laboratories and to the processes used by the scientist in his work.

**EDPE4039 - the Teaching of Modern Grammar.**

*Three credits. Three hours of lecture per week Prerequisites: ESPA 3291-3292.*

The course will review the methodology of language teaching through the use of a modern linguistic approach. This should enable students to obtain a more thorough understanding of the structure and function of language and also will improve their oral and written expression. Face-to-face, online and hybrid course. Effective January 2021.

**EDPE4045 - Workshop for the Preparation of Materials for Teaching of Science.**

*Three credits. Three hours of lecture per week Prerequisites: EDPT 3041, 4002.*

Workshop to train science teachers for the elementary level in the preparation of materials and simple equipment which are essential in the teaching of this matter. It will require the identification and creative use of materials found around every home, as well as other free or cheap materials that the teacher will prepare or organize. This will enable the teacher to enrich the activities in such a way that the student can develop the skills and acquire the knowledge he needs and are indispensable in the teaching of science, thus establishing the needed coordination between the practical and technical aspects of the teaching experience.

**EDPE4046 - Special Topics in Primary Education.**

*Two credits. Two hours of lecture per week Prerequisites: EDPT 4011-4012, EDPT 4021 RECOMMENDABLE.*

Seminar on special topics related to early childhood emphasizing research findings, innovations, evaluation of the child development and sex education. (c)

**EDPE4048 - Curriculum and Methodology in the Teaching of Abbreviated Writing System.**

*3 credits. Three hours of lecture per week Prerequisites: EDFU 3007, 3001-3002. MINIMUM OF 30*

Discussion and analysis of the various methods, approaches, and techniques for teaching gregg shorthand and other abbreviated alphabetic systems in the elementary and advanced phases and skill-building exercises. Demonstration classes using technology and multimedia. Practice in preparing short and long-term planning and assessment techniques. Development of thinking skills.

**EDPE4049 - Innovations in the Teaching of Accounting.**

*Three credits. Three hours of lecture per week Prerequisites: EDFO 3007, EDFO 3001-3002, MINIMUM OF 20*

This course will equip the student with the required competencies for teaching elementary and advanced accounting.

**EDPE4055 - Course of Biology for Teachers of Elementary School.**

*3 credits. Three hours of lecture per week Prerequisites: EDPE 3236. Corequisites: EDPE 3236.*

Course which considers the curriculum of science in the elementary school harmonizing content and basic and integrated processes of the sciences.

**EDPE4056 - Trends and Program Alternatives in Primary Level.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

This course studies different programs and pedagogical alternatives in childhood education. It gives emphasis among others to the school without walls, Montessori methods, childhood developmental centers, head start programs and mainstreaming. (c)

**EDPE4057 - Principles and Concepts of Science for Teachers of Elementary School.**

*3 credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

A basic course on earth and space science for elementary school teachers. Includes the fundamental

concepts of astronomy, geology and meteorology.

**EDPE4058 - Development of Speech and Language: Problems in its Development.**

*Three credits. Three hours of lecture per week.*

Study of language formation in children, factors that could limit its development, common speech problems. Therapeutic measures and techniques used in the remediation of speech and language problems are also discussed.

**EDPE4060 - Methodology for Teaching Keyboarding and Technology Integration.**

*Four credits. Two hours of lecture and two of workshop per week Prerequisites: EDFU3001, FAED4001, ADSO4105.*

Development of professional competencies to teach keyboarding and information processing at intermediate, secondary, and postsecondary levels. Training in method and strategies to guide skills learning related to keyboarding and integration of technology into education. These competencies will be developed through the study and analysis of essential components for learning; field study; specialized materials and projects development; case discussion, demonstrative lessons, and preparation of daily, unit and semester plans.

**EDPE4061 - Design and Curriculum Development at the Intermediate School I.**

*Three credits. Three hours of discussion per week.*

Study and analysis of the curriculum design and development which responds to the needs of the intermediate level student. Beginning with the different academic areas, principles of curriculum integration, teaching strategies and the different techniques of assessment for this level will be studied. Requires clinical and field experience. 19-08-96

**EDPE4062 - Design and Curriculum Development At the Intermediate School I.**

*Three credits. Three hours of discussion per week Prerequisites: EDPT 4061*

Study and analysis of the curriculum design and development which responds to the needs of the intermediate level student. Beginning with the different academic areas, principles of curriculum integration, teaching strategies and the different techniques of assessment for this level will be studied. Requires clinical and field experience. 19-08-96

**EDPE4065 - Creativeness Through Plastic, Musical and Dramatic Arts.**

*Three credits. Two hours of lecture and one hour of laboratory work per week.*

Enables the student to create, select, execute, and evaluate creative activities in the area of art, music and drama. (c)

**EDPE4066 - Materials and Techniques for the Teaching of the Plastic Arts in the Elementary School.**

*Three credits. Two hours of lecture and one hour of laboratory work per week.*

The student is guided to develop skills in the utilization of basic dimension techniques. Includes the student's participation in laboratory experiences.

**EDPE4067 - Seminar on the Teaching of Reading and Writing.**

*Six credits. Six hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Seminar type course designed to enhance elementary school teachers' preparation in teaching processes in reading and writing, emphasizing basic skills, special techniques, audiovisual aids, individualized instruction, evaluation, and special attention to students with reading disabilities.

**EDPE4068 - Practicum in Elementary Level.**

*4 credits. Twenty hours of practice per week Prerequisites: COMPLETE 100% OF THE PROFESSIONAL COURSES AND THE 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. Attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar. (c)

**EDPE4070 - the Purposes of the Student Teaching Program and the Tasks of the Cooperating Teachers.**

*Three credits. Three hours of lecture per week Prerequisites: EDPT 4006 OR 4016 OR SPED 4068, TEACHER'S CERTIFICATE.*

Discussion, analysis and practice of different strategies related to the tasks implemented by the cooperating teacher during student teaching activities. This course will be offered face-to-face, hybrid, distance and online modalities. Effective august 2021.

**EDPE4075 - Creative Experiences in the Plastic Arts, Music and Theater for the Elementary Level.**

*Three credits. Three hours of laboratory per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Integrated course. Individual and group experimentation with color, movement, rhythm, feelings, sound, volume, surface and space concepts in order to explore their relationships within the esthetic experience. Observations and interaction with the child's environment. Laboratory experience.

**EDPE4076 - Perceptual Motor Development Through Corporal Movement - 4th to 6th Grade.**

*Two credits. Two hours of discussion and one hour of laboratory work per week.*

This course provides for the student to organize, select, guide, execute and evaluate movement activities that will stimulate the perceptual motor development of the elementary school child attending the upper levels of the elementary school (4th - 6th grades).

**EDPE4077 - Curriculum and Methodology in the Instruction of Computer Skills to Students with Disabilities.**

*3 credits. Three hours of lecture per week Prerequisites: ESSENTIALS OF THE EDUCATION EDFU 3001-3002, LEARNING OF THE KEYBOARD ELEMENTARY AND INTERMEDIATE (KEYBOARDING), AND A COURSE OF ELECTRONIC PROCESSING OF INFORMATION ADSO 3035, ADSO 3036,*

Development of professional competencies for the instruction of the computer to students with disabilities: methods, teaching techniques, specialized materials, modifications, equipment adaptations, and lab experiences.

**EDPE4092 - Seminar II: Musical Groups.**

*One credits. One hour of seminar per week Prerequisites: EDPE 4091.*

A practical perspective of the educational process. All aspects related to the instruction of musical groups will be studied for public elementary and secondary schools. The basic content includes the preparation, adaptation, and utilization of resources and the technical methodology and teaching strategies. Students will learn to organize these groups in vocal or bell choruses, flute, rhythmic bands, and other sound utilities. These experiences will provide the teacher-students the skills and knowledge to develop themselves as musical educators in the Puerto Rican context.

**EDPE4093 - Seminar III: Trends in Musical Education.**

*One credits. One hour of seminar per week Prerequisites: EDPE 4091, EDPE 4092.*

A practical perspective of the educational process. All aspects related to research in music, international experiences and musical arrangements will be studied. the basic content includes the preparation, adaptation, and utilization of resources and the technical methodology and teaching strategies in the preparation of computer-generated musical pieces. Pedagogical musical research at the international level is emphasized in order to meet the curricular needs of the elementary and secondary music students and the formation of the student -teacher as an educator and researcher.

**EDPE4116 - Methodology for Teaching Science in Secondary Level.**

*Four credits. Four hours of seminar per week Prerequisites: EDFU3001 OR EDFU3011,3002 OR EDFU3012 EDFU3007, EDFU3017,4007,4019 TEED3018, FAED4001, EDES4006 AND 75% OF THE MAJOR COURSES WITH NO LESS THAN C. Corequisites: FAED4002*

In this course, emphasis is placed on the nature of science, considering its epistemology, ethics and history. A constructivist approach, founded on the method of inquiry, discovery and problem solving is stressed. the process of instructional planning is developed within the context of various learning theories based on curricular analysis and the methodology for teaching science. Instructional planning is developed at three levels: unit, lesson and daily plan strategies, methods and techniques for teaching science are used for instructional design and planning. the importance of research in action is highlighted and students are familiarized with educational policies related to the science program, students are required to complete 30 hours of field experience at the secondary level. This course will be offered face-to-face, hybrid, distance, and online course. Effective august 2021.

**EDPE4121 - Seminar: Curriculum, Instruction, Learning and Evaluation I.**

*3 credits. Three hours of lectures and three hours of field experience per week Prerequisites: 50% IN MAJOR COURSES INCLUDING FAED4001, EDFU3001-3002 EDFU3017 EDFU4019, TEED3017, EDES4006. 50% IN THE AREA OF THE MAJOR.*

First part of a one-year seminar. the seminar consists of three hours of lectures and three hours of field experience per week. Study will focus on curricular design, development, implementation, and evaluation in order to promote meaningful learning for all students according to their individual needs, strengths and learning capabilities, within a framework of the foundations of education in the elementary school level. Face-to-face, online and hybrid course. Effective January 2021.

**EDPE4122 - Seminar: Curriculum, Instruction, Learning and Evaluation II.**

*3 credits. Three hours of lecture and three hours field experience per week Prerequisites: EDPE4121, FAED4001-4002*

Second part of a one-year seminar. the seminar consists of three hours of lectures and three of field experience per week. Study will focus on curricular design, development, implementation and evaluation in order to promote meaning full learning for all students according to their individual needs, strengths and learning capabilities, within a framework of the foundations of education in the elementary school level. Face-to-face, online and hybrid course. Effective January 2021.

**EDPE4125 - Teaching Techniques and Evaluation in Adult Education.**

*Three credits. Three hours of lecture per week Prerequisites: EDFO 3001, 3002 AND/OR 3007, 4019 OR EQUIVALENT COURSES.*

Major emphasis is placed upon the development and implementation of various methods and techniques for the teaching evaluation of adult learners.

**EDPE4126 - Methodology for Teaching Secondary Level Social Studies and History.**

*4 credits. Four hours of seminar per week.*

The course emphasizes the theoretical and practical study of the teaching and learning of social studies and history in secondary education. The epistemology of the discipline, its history and its methodological peculiarities are analyzed. The methods, techniques and strategies that promote the learning of the discipline are studied, including both emphases, as well as the basic curricular materials. The development of teaching skills is studied in the areas of planning and creating lessons and teaching units. In addition, it covers the study of action research, the implementation of active learning strategies, and assessment, in the practical context of the area. It is required for the student to develop laboratory experiences (30 hours per semester.) This course will be offered in face-to-face, hybrid, distance, and online modalities.

**EDPE4128 - Methodology for Teaching Mathematics in Secondary Level.**

*Four credits. Four hours of seminar per week Prerequisites: EDFU3001 OR EDFU3011,3002 OR EDFU3012,3007,3017, 4019, TEED3018, FAED 4001, EDES4006 75% OF MAJOR COURSES WITH A GRADE NO LESSER THAN C.*

The course provides a combination of theoretical and practical foundations that allows the student to deal effectively with the responsibilities and attitudes of a teacher of mathematics at the secondary level. It studies a panoramic view of the history of education and the conditions of current education. In addition, it covers the theories underpinning the principles of teaching and learning. Students work with the curriculum framework, curriculum standards, and the existing curriculum of mathematics at the secondary level. Students learn about planning strategies needed to teach class in the area. The course integrates theory, practice and research through field experiences in public or private secondary schools. It requires 30 hours of field experience during the semester in a public or private school. Face-to-face, hybrid and online course

**EDPE4131 - Theory and Methodology for the Instruction of Art in the Elementary School.**

*3 credits. Three hours of lecture per week Prerequisites: 50%*

All aspects related to the instruction of art at the elementary level will be studied: planning, innovative instruction and curricular analysis; basic content - in this area of specialty; preparation, adaptation and use of resources; methods, techniques and instructional strategies; fundamentals of measurement and evaluation. The course content is practical in nature. Students must complete twenty (20) hours of lab experiences in a public or private school. These experiences will prepare the student-teachers to develop critical, dynamic and creative attitudes towards issues related to education in Puerto Rico.

**EDPE4132 - Theory and Methodology for the Instruction of Art in the Secondary School.**

*Three credits. Three hours of lecture*

All the aspects related to the education of the art in the secondary school will study planning, the innovating education and the curricular analysis; basic content in this one area of specialty; preparation, adaptation and use of the resources; methodology, techniques and strategies of education; foundations of the measurement and evaluation. The content is integrated to a practical base. All the students will have to complete a minimum of 20 hours laboratory in a state school or deprived. These experiences will prepare the student to develop attitudes critical, dynamic and creative by the problems of the education in Puerto Rico.

**EDPE4135 - Theory and Methodology in the Teaching of Science in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of science in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization, preparation, adaptation and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are

integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic and creative attitudes toward Puerto Rican educational problems. (c)

**EDPE4141 - Theory and Methods for Teaching Theater at the Elementary School Level.**

*3 credits. Three hours of lecture per week Prerequisites: 50% OF THE COURSES OF THE MAJOR IN THEATER, EDFU 3001, EDFU 3002, EDFU 3007, EDPE 4019 Y FAED 4001, EDES 4006, EDFU 4007, TEED 3018.*

*Corequisites: FAED 4002.*

A theoretical and practical view of the education and learning process of all the aspects related to the education of theater standouts such as planning, curricular analysis, educational innovations; basic curricular content, and principles of evaluation; adaptation and utilization of resources and materials, are emphasized. Students will study the k-12 methodology, techniques and strategies related to the instruction of theatrics. This course is designed to be offered in two consecutive semesters: theater part I and II. The educational system is viewed from a practical perspective therefore requiring students to complete 20 hours of field experiences in public or private schools. One semester will be dedicated to the elementary level and one to the secondary level. This course offered face-to-face, hybrid, distance, and online course. August 2021.

**EDPE4142 - Theory and Methods for Teaching Theater at the Secondary School Level.**

*3 credits. Three hours of lecture per week Prerequisites: 75% OF THE COURSES OF THE MAJOR; EDPE4141, FAED4001, FAED4002,*

A theoretical and practical view of the teaching-learning process. All aspects related to the instructional process of theatrics such as planning, curricular analysis, educational innovations; basic curricular content, and principles of evaluation; adaptation and utilization of resources and materials, are emphasized. Students will study the k-12 methodology, techniques and strategies related to the instruction of theatrics. This course is designed to be offered in two consecutive semesters: theatre part I and II. The educational system is viewed from a practical perspective therefore requiring students to complete 20 hours of field experiences in public or private schools. One semester will be dedicated to the elementary level and one to the secondary level.

**EDPE4145 - Theory and Methodology in the Teaching of Mathematics in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of mathematics in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation, and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems. (c)

**EDPE4147 - the Calculator in the Teaching of Mathematics.**

*Two credits. Two hours of lecture per week.*

Methods for integrating the calculator in the solution, exploration, and reinforcement of concepts as well as in the experimentation with mathematical ideas are demonstrated and analyzed. The student will participate in laboratory activities through which skills for the utilization of the calculators as a tool for learning will be developed.

**EDPE4149 - the Teaching of Mathematical Problem Solving the Elementary Level.**

*3 credits. Three hours of discussion per week.*



Study and analysis of the different strategies to learn and teach the process of problem solving in mathematics at the elementary level. It emphasizes in the creation and development of a problems and on how to evaluate students learning using different assessment techniques. Face-to-face, hybrid and online course

### **EDPE4151 - Curriculum Methodology for Teaching Music in the Elementary School.**

*3 credits. Prerequisites: 50% IN THE MAJOR Corequisites: FAED 4002.*

This course provides a theoretical and practical perspective of the teaching-learning process. Aspects that are highlighted throughout the course include planning, Innovative instruction, curricular analysis, basic content, basic principles of evaluation: preparation, adaptation and utilization of resources and materials. Methods, techniques, and instructional strategies for students, from kindergarten to sixth grade, will be studied as well as the fundamentals of assessment, action research and the use of technology. Twenty (20) hours of laboratory experiences are required. These experiences will help teacher candidates develop attitudes that are critical, dynamic, and creative towards the educational issues related to the Puerto Rican context. Face-to-face, hybrid and online course. Effective January 2021.

### **EDPE4152 - Curriculum and Methodology for Teaching Music at the Secondary School Level.**

*3 credits. Three hours of lecture per week Prerequisites: 75%*

This course provides a theoretical and particular perspective of the teaching-learning process. Aspects that are highlighted throughout the course include planning, innovative instruction, curricular analysis, basic content, basic principles of evaluation: preparation, adaptation and utilization of resources and material. Methods, techniques, and instructional strategies for students at the secondary level will be studied, as well as, the fundamentals of assessment, action research and the use of technology. Twenty (20) hours of lab experiences are required. These experiences will help teacher candidates develop attitudes that are critical, dynamic, and creative towards the educational issues related to the Puerto Rican context.

### **EDPE4155 - Theory and Methodology in the Teaching of History and Social Studies in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of history and social studies in secondary school are studied: planning, innovative education and curriculum analysis, basic content in this area of specialization; preparation, adaptation, and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems.

### **EDPE4165 - Theory and Methodology in the Teaching of Art in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of art in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation, and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems.

**EDPE4166 - Practicum in Teaching of Art in Secondary School.**

*6 credits. Twenty hours of practice per week Prerequisites: TO COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4175 - Theory and Methodology in the Teaching of Music in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of music in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation, and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems.

**EDPE4176 - Practicum in Teaching of Music in Secondary School.**

*6 credits. Twenty hours of practice per week Prerequisites: TO COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4178 - Theory and Methodology of Ballet Teaching in the Secondary School.**

*Three credits. Three hours of discussion per week.*

Theoretical and practical analysis of the teaching-learning process of ballet at the secondary school. Emphasis will be given to the following aspects, curriculum analysis and the basic content of the area; preparation, adaptation, and use of educational materials methodology and lesson planning; learning evaluation. Field experience is required. 21-01-97

**EDPE4185 - Theory and Methodology in the Teaching of Theater in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of theatre in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are

integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic and creative attitudes toward Puerto Rican educational problems. (c)

**EDPE4186 - Practicum in Teaching of Theater in Secondary School.**

*6 credits. Twenty hours of practice per week Prerequisites: TO COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4187 - Practicum in Teaching of Business Education in Secondary School.**

*6 credits. Twenty hours of practice per week Prerequisites: COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four-hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4188 - Practicum in Business Education-marketing.**

*Four credits. 20 hours of seminar and practice per week Prerequisites: THE COURSE IS OFFERED TO STUDENTS WHO HAVE COMPLETED THE*

The course requires that teacher candidates lead the process of learning and teaching in business education with emphasis in marketing, that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences, teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. Also, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4189 - Practicum in Business Education-accounting.**

*Four credits. 20 hours of seminar and practice per week Prerequisites: THE COURSE IS OFFERED TO STUDENTS WHO HAVE COMPLETED THE*

The course requires that teacher candidates lead the process of learning and teaching in business education with emphasis in the accounting area, that they participate in school activities and attend seminars offers at the university of Puerto Rico. Through these experiences, teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. Also, we discuss and analyze current topics the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise

the teacher candidate. the teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

### **EDPE4195 - Theory and Methodology in the Teaching of Industrial Arts in Secondary School.**

*Three credits. Three hours of lecture and fifteen of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of industrial arts in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation, and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems.

### **EDPE4196 - Practicum in Teaching of Industrial Arts in Secondary School.**

*6 credits. Twenty hours of practice per week Prerequisites: COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. in addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. the teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

### **EDPE4205 - Theory and Methodology in the Teaching of Industrial Vocational Education in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory work or workshop per week.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of industrial vocational education in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation, and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experience in public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems.

### **EDPE4206 - Practicum in Teaching in Vocational Industrial Education in Secondary School.**

*6 credits. Twenty hours of practice per week Prerequisites: COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. in addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. the teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4215 - Theory and Methodology in the Teaching of Physical Education in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of physical education in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems. (c)

**EDPE4216 - Practicum in Teaching of Physical Education in Secondary School.**

*6 credits. Twenty hours of practice per week Prerequisites: COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4219 - Methodology for Teaching Physical Ed-secondary Level.**

*Four credits. Prerequisites: EDFU3001 OR EDFU3011,3002 OR EDFU3012,3007,3017,4019, EDES 4006, TEED3018 AND 75% OF THE MAJOR COURSES APPROVED WITH A GRADE NO LESS THAN C. Corequisites: FAED4002*

The course is designed to integrate concepts, theories, and methodology of teaching-learning process of physical education, policies, and protocols applicable to the operation of the department of education and private education in Puerto Rico. Other topics include planning, strategies and teaching techniques, preparation and/or adaptation of educational resources, assessment, evaluation, research, professional considerations, discipline, and the use of new technology trends. Thirty hours of field experience are required in public and private schools that are used as practice centers. Face-to-face, hybrid and online course

**EDPE4226 - Practicum in Teaching of Home Economics in Secondary School.**

*6 credits. Twenty hours of practice per week Prerequisites: TO COMPLETE 100% OF THE PROFESSIONAL COURSES AND 75% OF THE MAJOR COURSES.*

The course requires that the teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the university of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques, and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the university as scheduled in the semester calendar.

**EDPE4227 - Health Teaching Practicum in the Secondary Level.**

*Six credits. Three hours of discussion and twelve of supervised practice.*

The student, as a health teacher at the secondary level designs and implements the instructional and evaluation process. Participates in other educational activities and attends seminars where issues related to their experience as a teacher, as well as related to theories, are analyzed. 19-08-96

### **EDPE4230 - Reading and Writing in the Secondary School.**

*Three credits. One hour of lecture, one of discussion and one of laboratory work per week Prerequisites: BASIC COURSES.*

Study of pedagogical ideas related to human communication as a required course for secondary Spanish teachers. These ideas will serve as the basis for the analysis of fundamental principles in the teaching-learning process of reading and writing in secondary school, giving special attention to methodology in teaching Spanish. Face-to-face, online and hybrid course. Effective January 2021.

### **EDPE4235 - Theory and Methodology in the Teaching of Spanish in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory work per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of Spanish in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation, and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems.

### **EDPE4237 - Student Teaching of French in Secondary School.**

*Six credits. Twelve hours of practice and three hours of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The student will be assigned to a public (or private) secondary school for three hours daily, five days a week. Four days will be devoted to teaching French and participating in other activities that form part of the work of the teacher. One day weekly will be spent in a seminar with the college supervisor to analyze and discuss the problems students are facing in their student teaching. In this laboratory, students will be helped in their learning by the cooperating teacher, the school principal, and the college supervisor.

### **EDPE4238 - Student Teaching of Italian in Secondary School.**

*Six credits. Twelve hours of practice and three hours of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The student will be assigned to a public (or private) secondary school for three hours daily, five days a week. Four days will be devoted to teaching Italian and participating in other activities that form part of the work of the teacher. One day weekly will be spent in a seminar with the college supervisor to analyze and discuss the problems students are facing in their student teaching. In this laboratory, students will be helped in their learning by the cooperating teacher, the school principal, and the college supervisor.

### **EDPE4245 - Theory and Methodology in the Teaching of English in Secondary School.**

*Three credits. Three hours of lecture and fifteen hours of laboratory experiences per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of English in secondary school are studied: planning, innovative education, and curriculum analysis; basic content in this area of specialization; preparation, adaptation, and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experience in

public and private schools. These experiences will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems.

**EDPE4255 - the Language Arts in the Curriculum Areas of the Secondary School.**

*3 credits. Three hours of lecture per week Prerequisites: EDPT 3001, 3002, AND 15*

Application of the linguistic competences: orthography, reading, oral communication, and writing within each discipline. In this course student-teachers will analyze and apply an efficient instruction of language in the process of teaching and learning in multidisciplinary contexts. Face-to-face, online and hybrid course. Effective January 2021.

**EDPE4258 - the Teaching of Discrete Mathematics At the Secondary Level.**

*Three credits. Three hours of discussion per week Prerequisites: MATE 3151.*

With the opportunity to learn about content related to the teaching of discrete math in the grades that are part of this level. In addition, the discussion of activities that can be used to teach the concepts related to this material will be integrated. This will enable them to process the knowledge they need to teach these contents in their professional practice. Also, students will be provided with alternatives to the use of technological and manipulative tools for the development of the concepts included in this content. In the same way, they will be trained to be able to integrate it into the math classes they will teach. This responds to the recommendations of the national council of mathematics teachers. This course is face-to-face. Face to face, hybrid and online course new description begins on August 2020.

**EDPE4259 - the Teaching of Algebra at the Secondary Level.**

*Three credits. Three hours of discussion per week Prerequisites: MATE 4031, EDPE 4258.*

The course will provide the students of the secondary school's mathematics program with the opportunity to learn about topics related to the content that includes the teaching of algebra in the grades that are part of the intermediate and higher levels. This will give greater emphasis to the basic topics of algebra, functions, linear and abstract algebra, and their connections to algebraic topics taught at the secondary level. In addition, this course will develop mathematical practices using the content of this subject. Offering attention to solving problems, representing mathematical ideas, reasoning, testing, using mathematical models, paying attention to accuracy, identifying structure elements and generalizing. To achieve this, this course will have as an evaluation requirement 15 hours of field experiences that will be carried out in school scenarios where the algebraic content is offered at the secondary level.

**EDPE4275 - Theory and Methodology of Health Teaching in the Secondary School.**

*Three credits. Three hours of discussion per week.*

Theory and practice of the teaching and learning process. Study of all aspects related to health teaching in the secondary school: planning, educational innovations, and curriculum analysis; basic content area; preparation, adaptation, utilization, and evaluation of resources; teaching methods, evaluation of learning and instructor. It requires a minimum of 15 hours of clinical and field experiences. 12-08-96

**EDPE4305 - Adult Education Curriculum.**

*Three credits. Three hours of lecture per week Prerequisites: EDFU 3001, 3002, 3007, 4019.*

Critical examination of the problems regarding adult education curriculum. Includes the analysis and evaluation of the literature, research, and of basic principles regarding curriculum planning for adults. Schools where adult education programs are offered will be visited. 08-06-98

**EDPE4345 - Teaching Practice of General Science at Secondary Level.**

*Four credits. Four hours of seminar and sixteen hours of practice weekly Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND MAJOR*

*COURSES.FAED4001-4002. Corequisites: FAED4003.*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of general science in public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher and the school director. This course face-to-face.

#### **EDPE4346 - Teaching Practice of Chemistry at the Secondary School.**

*Four credits. Four hours of seminar and sixteen hours of practice per week Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND MAJOR COURSES. FAED4001-4002. Corequisites: FAED4003.*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of chemistry in a public and private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's performance is provided by the university professor, the collaborating teacher, and the school director.

#### **EDPE4347 - Teaching Practice of Physics at the Secondary Level.**

*Four credits. Four hours of seminar and sixteen hours of supervised practice per week Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND THOSE OF THE MAJOR.FAED4001-4002. Corequisites: FAED4003.*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of physics in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed as well as situations that occur during the practicum experience. Supervision of the students' performance is provided by the university professor, teacher, and the school director.

#### **EDPE4348 - Teaching Practice of Biology at the Secondary Level.**

*Four credits. Four hours of seminar and sixteen of supervised practice per week Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND MAJOR COURSES. FAED4001-4002. Corequisites: FAED4003*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of biology in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher and the school director.

#### **EDPE4349 - Teaching Practice of Social Studies at Secondary Level.**

*Four credits. Four hours of seminar and sixteen of supervised practice per week Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND THOSE OF THE*



*MAJOR.FAED4001-4002 Corequisites: FAED4003*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of social studies in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide student with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. in addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher, and the school director.

#### **EDPE4350 – Teaching Practice of History at the Secondary Level.**

*Four credits. Four hours of seminar and sixteen of supervised practice per week Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND THE MAJOR COURSES.FAED4001-4002. Corequisites: FAED4003*

In their practice teaching, students are required to plan and facilitate the teaching-learning process of history in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. in addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collabo- rating teacher and the school director.

#### **EDPE4355 - Teaching Practice of Theatre at the Secondary Level.**

*Four credits. Four hours of seminar and sixteen hours of supervised practice per week Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND THE MAJOR COURSES.FAED4001-4002. Corequisites: FAED4003*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of theater in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. in addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher, and the school director.

#### **EDPE4356 - Teaching Practice of Music at the Secondary Level.**

*Four credits. Four hours of seminar and sixteen hours of practice weekly Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND MAJOR COURSES.FAED4001-4002. Corequisites: FAED4003.*

In their teaching practice, students are required to plan, facilitate the teaching-learning process of music in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. in addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher, and the school director.

#### **EDPE4357 - Teaching Practice of Art at the Secondary Level.**

*Four credits. Four hours of seminar and sixteen of supervised practice per week Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND THE MAJOR COURSES.FAED4001-4002. Corequisites: FAED4003*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of art in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher and the school director.

#### **EDPE4358 - Teaching Practice of Mathematics at the Secondary School.**

*Four credits. Four hours of seminar and sixteen of supervised practice per week prerequisite for students who have completed the required courses of the professional component and the major courses. FAED 4001-4002. Corequisites: FAED4003*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of mathematics in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher and the school director.

#### **EDPE4359 - Teaching Practice of English at the Secondary Level.**

*Four credits. Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND THE MAJOR COURSES. FAED4001-4002. Corequisites: FAED4003*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of English in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher, and the school director.

#### **EDPE4360 - Teaching Practice of Spanish at the Secondary Level.**

*Four credits. Four hours of seminar and sixteen of supervised practice per week Prerequisites: FOR STUDENTS WHO HAVE COMPLETED THE REQUIRED COURSES OF THE PROFESSIONAL COMPONENT AND THE MAJOR COURSES. FAED4001-4002. Corequisites: FAED4003*

In their teaching practice, students are required to plan and facilitate the teaching-learning process of Spanish in a public or private school of the secondary level, participate in activities and attend professional seminars at the university. These experiences provide students with the theoretical tools, techniques, practices, and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher, and the school director.

#### **EDPE4917 - Teaching in Puerto Rico: A Short-Term Experience.**

*Three credits. Three hours of internship per week.*

Research and intensive field experience for teachers in training from universities in the United States or other countries. Through visits, practices in schools and cultural trips the teacher candidate may acquire, develop, expand and create skills and provisions such as settlement of disputes, attention to language needs, cultural and social diversity, styles of learning, adaptation of content and curricular material for students with

special needs, needed to work in a multicultural educational setting.

**EDPE4995 - Directed Independent Study.**

*One to Six credits. Lectures by agreement*

Study of the special topics or particular problems of interest to individuals or small groups of students at the undergraduate level directed by a professor. 19-08-96

**EDPE5001 - the Teaching of Computational Thinking at the School Level.**

*Three credits. Three hours of workshop per week.*

The course emphasizes the following topics: introduction to computational thinking (CT) and the difference with computer science. Curriculum standards and their integration in the classroom will be discussed. the four essential elements of CT will be explored; among them, patterns, focused on daily life highlighting their decomposition and recognition. We will work with algorithms, focusing on their abstraction and design. Focus will be on promoting a multi- disciplinary nature of CT in the school curriculum. the design of instruments using assessment techniques to evaluate CT will be conducted. It will promote curricular design to apply CT at school levels. the strategies, models and activities presented are based on results of research in the field, on the recommendations of professional organizations and on the standards for teaching CT. This course will be offered face-to-face, hybrid, distance or online.

**EDPE5002 - Teaching Programming at the Elementary Level.**

*Four credits. Four hours of workshop per week.*

This course is an introduction to computer science and problem solving. Concrete activities and flow chats will be used to teach concepts such as variables, interaction, conditionals, cycles, and functions. for the elementary level, programming with symbolic block language and other unplugged activities will be used. Also, block language programming will be used to introduce the concepts discussed above and the concepts of functions. the debugging and pair programming strategy will be used. Students will design a lesson where the concepts presented in class will be applied to their subject. the strategies, models and activities presented are based on research results, recommendations from professional organizations and standards for teaching programming at the elementary level. This course will be offered face-to-face, hybrid, distance or online.

**EDPR4011 - Curriculum and Methodology at Preschool Level (part I).**

*Three credits. Three hours of lecture and three hours of laboratory per week Prerequisites: EDPR4125, EDFU3012, FAED4001. Corequisites: EDPR4255, EDPE4136, EDPR4137.*

Study, analysis and application of basics principles and approaches for the designing and development of an appropriate curriculum for infants and toddlers, comparison of the diverse programs, approaches, and curricular trends. Requires 25 hours of field experience and pre-practicum experiences in childcare programs that offers educational services to infants and toddlers. This course will be offered face-to-face, hybrid and online modalities. This course substitutes ecdo4011 since august 2017.

**EDPR4126 - Organization and Administration of Infant, Toddlers and Preschool Programs.**

*Three credits. Three hours of lecture per week Prerequisites: EDPR4011, FAED4001, FAED4002. Corequisites: EDPR4012, EDPE3145, TWO ELECTIVES 3*

Study of the principles of planning, implementing and administrating infants, toddlers, and preschool programs. Analyze historical perspective of early childhood education, the views and programmatic trends of appropriate models for the planning and implementation of infants, toddlers, and preschool programs. the theory will be enriched by practical experience of integration and active investigation in the diverse sceneries at infants, toddlers, or preschool levels. Course face-to-face, hybrid and online modalities. This course substitutes ecdo4126 since august 2017.

**EDPR4127 - Play in the Integral Development of Infants, Toddlers and Preschoolers.**

*Three credits. Three hours of lecture per week Prerequisites: EDPR4125, EDFU3012. Corequisites: EDPE3067, EDFI3090 EDFU4007 AND HISTORY OF PUERTO RICO.*

Study of the importance of play in its diverse manifestations considering it as a way of self-expression of the child that promotes learning and the cognitive, social, linguistic, creative, emotional, and physical development of the infants, toddlers, and preschool children. Emphasis on the role of the teacher in fostering children's constructing play and in the planning of the diverse categories of play. Field experiences in early childhood scenarios are required to relate students with the diversity of play and with the organization of the environment to play. This course substitutes ecdo4127 since august 2017.

**EDPR4136 - Assessment in Early Childhood: Infants, Toddlers and Preschoolers.**

*Three credits. Three hours of lecture per week Corequisites: EDPR4011, EDPR4255, EDPE4035, EDPR4137, FAED4002.*

Study of principles, fundamentals, methodology and interpretation of the evaluation processes of development and learning of early childhood infants, toddlers, and preschoolers. Observation methods and continuous evaluation considering implications of the educational processes and the optimal integrated development of the child are assessed. Field experiences and research are required within infants, toddlers, and preschool scenarios. This course will be offered face-to-face, hybrid, distance, and online modalities effective August 2021. New prerequisites: EDPR 4125. Effective august 2021. This course substitutes ecdo4136 since august 2017.

**EDPR4137 - Knowing About Emotions and Promoting Pro-social Guidance for the Preschool Child.**

*Three credits. Three hours of lecture per week Prerequisites: EDPR4125 Corequisites: EDPR4011, EDPR4255, EDPR4136, EDPE4035, FAED4002.*

This course examines the theoretical frameworks that support the socio- emotional development of the infant, maternal and preschool from a humanist, ecological and constructivist perspective. They present effective means to promote pro-social behavior and the child during the educational processes of the daily routine that encourage their emotional, asocial, physical, and cognitive development. Emphasizes the use of direct and indirect strategies to facilitate the management of emotions and pro-social behavior in childhood that must be incorporated into the curriculum. Face to face, hybrid, and online course this course substitutes ecdo4137 since august 2017.

**EDPR4216 - Educational Practicum in the Preschool Level.**

*Six credits. Three hours of discussion and seventeen hours of laboratory per week Corequisites: FAED4003*

Educational practicum experience in a public or private preschool educational center. Student's teachers will put into practice knowledge and techniques for planning and assessment of the educational process. Requires 20 hours per week of direct educational work and interaction with infants, toddlers, or preschoolers for a total of 300 hours minimum. Requires that the student, travel to the practicum center, if the location is outside campus. Substitutes ecdo4216 since august 2017

**EDPR4255 - Working with Parents, Families and Community.**

*Three credits. Corequisites: EDPR4011, EDPR4137, EDPR4136, EDPE4035 FAED4002.*

Study of the importance and effective means for the integration and participation of parents, families, school and the community in education and integral development of the student. Processes, historical, cultural and legal fact factors that impact children and their families in the social, cultural and community context are considered. the philosophical and theoretical framework is examined, as existing models, established by different associations and agencies as public policy-based work with parents, families and the community analysis and use of data related to the interests and needs of contemporary families, the services, and

resources available to those in the community. Preschool, primary, and elementary strategies that promote mutual relations, cooperation and integration of families and the community in the respective educational levels and presented. Face to face, hybrid and online course this course substitutes ecdo4255 since august 2017

### **EING4002 - Methods of Teaching ESL to Spanish Speakers in the Elementary Education Part II.**

*Three credits. Three hours of lecture per week Prerequisites: 75% OF MAJOR COURSES AND FAED4001, FAED4002.*

Teacher candidates will plan demonstration classes and lesson plans for the development of ESL skills based on national and local standards. Authentic assessment strategies will be implemented by prospective teachers and will serve as the foundation for planning esl lessons. An action research study will be designed and piloted. National and local standards will be used as the foundation to plan an integrated curriculum unit. Thirty hours of laboratory experiences in an elementary esl classroom are required as well.

### **EING4005 - Literature for Adolescents.**

*3 credits. Three hours of lecture per week.*

This course is designed to familiarize the teaches candidates with a broad scope of young adult literature. Outstanding authors and literary works of different genre will be read and discussed in class sessions. Innovative and traditional strategies for teaching literature as well as student-centered activities will be examined and practiced. Extensive reading of literary works is required. Emphasis will be placed on the enjoyment of literature and on stimulating the love of reading in teenagers. Observation of classes and field experiences are required. Face-to-face, hybrid and online course.

### **EING4006 - Teaching English to Spanish Speakers.**

*Three credits. Three hours of lecture per week.*

Study of the most recent linguistic theory and explanation of the proper relationship between this theory, the learning process, and the communication process. Search for information on the nature and function of language in the natural sciences and in related disciplines such as psychology, anthropology, sociology, and philosophy. Study of the problem of bilingualism and factors affecting Puerto Rico and other bilingual groups and their implications for teaching a second language. Formal lectures followed by class discussions; guest lectures from various related disciplines above mentioned; panel discussions by students; individual and group presentations, film viewing, and extensive reading will be used throughout the course. Face to face, hybrid, and online course

### **EING4007 - Workshop for the Preparation and Appraisal of Materials for the Teaching of English to Spanish Speakers-elementary School Level.**

*Three credits. Three hours of lecture per week.*

Introduces elementary and secondary school teachers to the preparation, appraisal, and evaluation of material for the teaching of English to Spanish speakers. Demonstrates the various uses of audiovisual and audiolingual materials and offers possibilities for their use in the classroom. Trains in the preparation of such materials. Lectures, individual orientation, projects, trips to audiovisual centers, demonstrations, etc. This course will be offered face-to-face, hybrid, distance, and online modalities. Effective august 2021.

### **EING4008 - Workshop for the Preparation and Appraisal of Materials for the Teaching of English to Spanish Speakers-secondary School Level.**

*Three credits. Three hours of lecture and twelve of laboratory work per week.*

Introduces elementary and secondary school teachers to the preparation, appraisal, and evaluation of material for the teaching of English to Spanish speakers. Demonstrates the various uses of audiovisual and audiolingual materials and offers possibilities for their use in the classroom. Trains in the preparation of such

materials. Includes lectures, individual orientation, projects, trips to audiovisual centers, demonstrations, etc.

### **EING4009 - Methods and Techniques for the Teaching of English to Spanish Speakers- Elementary School.**

*Three credits. Three hours of lecture and twelve of laboratory work per week.*

Will reconcile the various methods, approaches and techniques recommended for modern foreign language teaching and develop a common philosophy for teachers of English as a second language. the impact of modern technology and the use of new electronic equipment for modern foreign language teaching will be presented along with proper materials and pedagogical applications. Demonstrations, classes and observations with corresponding discussion and classroom samplings. the various steps of microteaching will be introduced and analyzed with particular emphasis to their proper use by the prospective English teacher. the value and use or non-use of the various teaching techniques at different levels will be critically appraised by students and reconciled with the various theories of learning.

### **EING4010 - Methodology of English as Second Language: elementary.**

*Four credits. Prerequisites: EDFU3001, OR EDFU3011,3002 OR EDFU3012,3007,3017,4007,4019, TEED3017, FAED4001, EDES4006, 75% OF MAJOR COURSES WITH A GRADE NO LESSER THAN C. Corequisites: FAED4002*

A historical overview of the teaching of English in Puerto Rico from 1898 to the present will serve as the foundation for the discussion of current issues related to ESL instruction. the principles underlying the teaching of foreign languages will be analyzed also. Different approaches, methods educational and research strategies, and techniques for the teaching of English as a second language will be explored also. Teacher candidates will plan demonstration classes and lesson plans for the development of skills based on national and local standards. Thirty hours of laboratory experiences in an elementary ESL classroom are required as well. This course will be offered face-to-face, hybrid and online modalities.

### **EING4015 - Methods and Techniques for the Teaching of English to Spanish Speakers- Secondary School.**

*Three credits. Three hours of lecture per week.*

Will reconcile the various methods, approaches and techniques recommended for modern foreign language teaching and develop a common philosophy for teachers of English as a second language. the impact of modern technology and the use of new electronic equipment for modern foreign language teaching will be presented along with proper materials and pedagogical applications. Demonstrations, classes and observations with corresponding discussion and classroom samplings. the various steps of microteaching will be introduced and analyzed with particular emphasis to their proper use by prospective English teachers. the value and use or non-use of the various teaching techniques at different levels will be critically appraised by students and reconciled with the various theories of learning.

### **EING4016 - Literature for Children.**

*Three credits. Three hours of lecture per week.*

for elementary and secondary school teachers. the prospective teachers will read intensively in the fields of children and adolescent literature in order to become familiar with such fields. Literary selections that best appeal to children and adolescents in Puerto Rico and other parts of the world will be presented, preferably those with the best literary style. Students will read about and perform such creative activities as choral speaking, play acting, dramatization, and choral singing in relation to the various grade levels. Careful analysis of those literary genres most appealing to children and adolescents such as short stories, nursery rhymes, ballads, tales, myths poems, biography, plays, essays, drama, and informative material will be an integral part of the course. Special attention will be given to the appraisal and discussion of cultural patterns presented in selected readings as a mean of interpreting American ways of life and American values to Puerto Rican students.

**EING4017 - A Comparative Analysis of English and Spanish.**

*Three credits. Three hours of lecture per week.*

Both the phonological and the syntactical system of English and Spanish will be carefully analyzed and contrasted. Parallel and non-parallel (similar and different) patterns of sound and structure will be given with special attention to the differences since these are the main sources of the linguistic problems students face when learning English as a second language. Textbooks, supplementary reading materials such as books, magazines, journals, films, charts, and other audiovisual aids will be used. Research investigations, book reports and lectures.

**EING4018 - Linguistics and the Teaching of Reading.**

*Three credits. Three hours of lecture per week.*

for future elementary and secondary school teachers of English as a second language. Designed to have the student propound a definition of a consistent theory of learning through the understanding of the psychology of the reading process and the relationship of the reading aspects to language. the factors in reading readiness, the new trends in reading instruction, initial reading activities as related to students needs will be presented. Experience will be provided in teaching, procedures and preparation of lesson plans, units concerning the development of readings skills, and their transmission at the various grade levels. This course will be offered face-to-face, hybrid and online modalities.

**EING4019 - Literacy Instruction for Elementary School ESL Learners.**

*3 credits. Three hours of lecture per week Prerequisites: EING 4006 AND EING 4018.*

This course emphasizes on how to teach reading as a second language to beginning readers. It designed for ESL elementary school teacher candidates. the developmental stages of reading from emergent to independent readers will be studied along with developmentally appropriate practices. Current issues will be explored in the topics of phonics instruction, literature-based approaches, phonemic awareness, and the competing theories of emergent literacy and "reading readiness". Best practices in developmental writing are also studied. Teacher candidates will learn how to plan instruction for literacy development. Assessment procedures for diagnosing the students' levels of literacy development and achievement are also include face-to-face, hybrid and online course.

**EING4020 - Methodology of English as Second Language Secondary Level.**

*Four credits. Four hours of seminar per week Prerequisites: EDFU3001 OR EDFU3011,3002 OR 3012,3007,3017,4019 TEED3018 FAED4001, EDFU4007, EDES 4006 AND 75% OF MAJOR COURSES WITH A GRADE NO LEESER THAN C.*

The course is designed to emphasize the relationship among short, and long-term planning. the teacher candidate will learn to plan for standard-based ESL instruction and to determine culturally appropriate practices for diverse students. the course is designed to emphasize the relationship among assessment planning and implementation of instruction and student's achievement. Different assessment tools and techniques will be used to diagnose and assess academic progress and achievement. the results or assessment will be analyzed to deter- mine planning and instruction that address students' needs in a classroom setting. the teacher candidates will observe and participate actively in field experiences (30hrs.) in small group or individual instruction at the secondary level. As part of this experience, students will carry out an action research pilot study. This course will be offered face-to-face, hybrid and online modalities.

**EING4035 - Teaching Reading in ESL for Secondary Education.**

*Three credits. Three hours of lecture per week Prerequisites: EING 4006; EING 4018.*

The course focuses on the literacy needs of ESL students in middle and secondary school. the teacher candidate will develop the necessary understanding, knowledge, and skills to help struggling readers and

writers build essential literacy-life skills in English as a second language. Methods of teaching, diagnostic procedures and assessment of reading and writing will be studied. Student-centered approaches to literacy development will be emphasized. Teacher candidates will plan lessons and units that integrate the language arts and content-based knowledge. Observation of classes and field experiences are required. Course face-to-face, hybrid and online modalities.

### **EING4045 - Teaching Writing in ESL.**

*Three credits. Three hours of lecture per week Prerequisites: EING 4006, EING 4018, EING 4019, EING 4035.*

This course is designed for both elementary and secondary teacher candidates. The main emphasis is to refine teacher candidates' ability in composition writing and at the same time engage them in the art of teaching writing. Teacher candidates will plan instruction for a series of activities to help students develop writing from the sentence to expository text. It will also focus on the ability to draft, revise, conference, edit, proofread, and publish, and to form well-constructed, effective texts. Teacher candidates will model these skills in teaching students how to write sentences and compositions in English as a second language. Field experiences are required. This course will be offered face-to-face, hybrid and online modalities.

### **EING4046 - "assessment of English as A Second Language.**

*3 credits. Three hours of lecture per week*

Designed to equip elementary and secondary school ESL teacher candidates with assessment and evaluation procedures specific to second language learning. It will provide ESL teacher candidates the skills necessary to select, evaluate, administer, interpret, and communicate the results of formal and informal assessment strategies, including language proficiency testing, entry and placement procedures. Implementation of such instruments is required in an actual school setting. Face-to-face, hybrid and online course.

### **EING4047 - Teaching English Grammar to Spanish Speakers.**

*Three credits. Three hours of lecture per week Prerequisites: EDEN 4009, ENGL 4206.*

Provides prospective teachers with methodological alternatives and strategies to be utilized in the teaching of the grammatical structures of the English language to Spanish speakers. This course will be offered face-to-face, hybrid and online modalities.

### **FAED4001 - Professional Reflective Seminar I.**

*1 credit. Three hours of lecture per week*

The professional reflexive seminar of the faculty of education is offered in three stages that extend from the student's entry into the faculty until they complete their B.A. Degree. The seminar provides students the opportunity to reflect upon teaching and the academic and professional preparation this profession requires. The electronic portfolio is used as a tool to stimulate and evidence the student's reflection and development process using the competencies and principles presented in the faculty of education's conceptual framework of the faculty of education and will begin the development of his or her electronic portfolio. The theme in this first seminar is educator. Face-to-face, hybrid and online course.

### **FAED4002 - Professional Reflective Seminar II.**

*1 credit. Three hours of lecture per week*

The professional reflexive seminar of the faculty of education is offered in three stages cathected from the student's entry into the faculty until they complete their baccalaureate degree. The seminar provides students the opportunity to reflect upon teaching and the academic and professional preparation this profession requires. The electronic portfolio is used as a tool to stimulate and evidence the students' reflection and development process using the competencies and principles presented in the faculty of education's conceptual framework as foundation. In the professional reflective seminar, the future teacher reflects about the teaching and learning process and his/her educational philosophy. He/she interrelates the



portfolio with the field experiences and learning experiences about the learning process. Face-to-face, hybrid and online course

### **FAED4003 - Professional Reflective Seminar III.**

*1 credit. Three hours of lecture per week.*

The professional reflexive seminar of the faculty of education is offered in three stages that extend from the student's entry into the faculty until they complete their b. A. Degree. the seminar provides students the opportunity to reflect upon teaching and the academic and professional preparation this profession requires. the electronic portfolio is used as a tool stimulate and evidence the students' reflections and development process using the competencies and principles in the faculty of education's conceptual framework as a foundation. in seminar iii the student will complete his or her portfolio and reflect about the research in teaching process. Face-to-face, hybrid and online course

### **RECR3005 - the Role of Dance in Recreation.**

*2 credits. Two hours of lecture and one hour of supervised practice per week.*

Introduction to the development of dance as a means of recreation. Exploration of different types of services related to the community. Creation and performance of dance events.

### **RECR3105 - Sport and Physical Activity for Special Population.**

*Three credits. Two hours of lecture and one of workshop per week.*

This course is intended for special populations with sensory impairment (blind and deaf), intellect and mental (mental retardation, autism, and mental illness) and social impairment (confined and institutionalized). It emphasizes the design of adapted sports programs according to the international statutes of sport organized for people with disabilities. There is a significant demand in today's society for sports services on behalf of special populations. the increase in the population with disabilities requires the best school, rehabilitative and communal sport programs to aid their physical, psychological, and social development. Sport and adapted physical activity have different types, ways of organizing, modalities, and classification according to the condition of the participant. Adapted physical activity will follow the protocols designed for the management of leisure time and the prescription of exercise for special populations. Face-to-face, online and hybrid course. Effective January 2021.

### **RECR3685 - Introduction to the Study of Recreation.**

*Three credits. Three hours of lecture per week.*

Philosophical principles. History of recreative movement. Government responsibilities at different levels, voluntary associations, leadership, and programs. the development of a recreative concept with particular application to Puerto Rico. (c) face-to-face, online and hybrid course. Effective January 2021.

### **RECR3686 - Therapeutic Recreation Prescription and Treatment.**

*3 credits. Three hours of lecture per week.*

Analysis of prescription and the different treatment modalities for special populations. Evaluation of the instruments, treatments, and activities used in different sectors. Will be offered in face-to-face, hybrid, distance and online modalities. Effective august 2021.

### **RECR3695 - Leadership and Group Work.**

*3 credits. Three hours of lecture per week.*

Basic principles and theoretical foundations of working with organized groups and its importance and value within democratic societies. Methods and techniques used to promote individual and collective development through group experiences with emphasis on organized recreation. This course will be offered face-to-face, hybrid and online modalities.

**RECR3715 - Arts and Recreation.**

*3 credits. Two hours of lecture and one hour of supervised practice per week.*

Basic principles of theory and practice of art for the future manager of recreation programs and services. Analysis of the offers in recreation programs that include activities related to art. Brief history of art and its influence on popular manifestations.

**RECR3726 - Outdoor Recreation.**

*3 credits. Three hours of lecture per week.*

Study of the existing relationship between the natural resources, recreation, and individuals. Problems affecting the areas and resources of outdoor recreation. Special attention to management and conservation of the environment for recreation purposes. Skills required to bring groups to outdoor recreational activities. Requires visits, outings, and stayovers outside the campus. This course will be offered face-to-face, hybrid and online modalities.

**RECR3820 - Leisure Education.**

*Three credits. Three hours of lecture per week.*

The study of free time as a social phenomenon of growing importance in contemporary society and its pertinence to formal and non-formal education. Appreciation of free time as an opportunity to attain a gratifying level of life satisfaction. Promote the acquisition of values, attitudes, knowledge, and skills related to leisure that will influence their intellectual, emotional, physical, metaphysical, and social development through the life course. Education as a long-life process will be linked to leisure lifestyles, both as a strategy for professionals in educational settings as well as for the individual's benefit. August 14, 2001.

**RECR4006 - Introduction to Therapeutic Recreation.**

*3 credits. Three hours of lecture per week.*

History, principles, philosophy, and modalities of therapeutic recreation services. Face-to-face-, online and hybrid course. Effective January 2021.

**RECR4015 - Internship and Seminar on Recreation.**

*Nine credits. One hour of lecture and 24 hours of workshop per week Prerequisites: RECR 3705.*

Internship and seminar in education in the various government and private recreational agencies. The student will participate in the host agency and will gain experience in the organization and implementation of recreational program. This experience will be under the guidance and supervision of an agency professional and a university faculty member. Full time registration. This course will be offered face-to-face, hybrid and online modalities.

**RECR4025 - Camp Administration.**

*3 credits. Three hours of lecture per week Prerequisites: RECR 3725.*

Brief history of the development of organized camps. Planning, organizing, direction, personnel selection and training, and evaluation procedures. Basic concepts related to safety, health and risk management. Requirements for operation of camps in Puerto Rico. This course will be offered face-to-face, hybrid and online modalities.

**RECR4045 - Interpretative Services in Recreational Areas.**

*Three credits. Three hours of lecture and workshop per week Prerequisites: RECR 3685, RECR 3726 OR PERMISSION OF THE PROGRAM COORDINATOR*

Introduction to interpretation of recreational areas as a resource to educate, enrich and expand the services offered to visitors of museums, historical sites, parks, forests, reserves, areas of social and cultural value and

others. Presentation and investigation of alternatives to facilitate knowledge, appreciation and enjoyment of a particular area, using the resources of the site (social, cultural or historical events, plant and animal life, geology, ancient history of the area, etc.). This course offered face-to-face, hybrid, distance, and online modalities. Effective august 2021. 20-01-98

#### **RECR4055 - Recreational Sports.**

*Three credits. Three hours of lecture per week.*

Analysis of the nature, values and purposes of different individual and team sports, including the aquatic, their rules, procedures and scoring systems will be studied. in addition, the organization, implementation and evaluation of competitive events are considered. This course offered face-to-face, hybrid, distance and online modalities. Effective august 2021.

#### **RECR4065 - Tourism and Recreation.**

*Three credits. Three hours of lecture per week.*

The study of tourism, as a social phenomenon, analyzed under the considerations of study of leisure and recreation, its origins, present and future characteristics, and social impact. Study of elements of tourism as a system used in the development of parks, recreation, and tourism areas. Consideration to the facilities and program factors relevant to visitors. This course offered face-to-face, hybrid, distance, and online modalities. Effective August 2021.

#### **RECR4095 - Measurement and Evaluation for Research in Recreation.**

*3 credits. Three hours of lecture per week.*

Fundamental considerations regarding measurement and evaluation. Procedures, uses, analysis strength and weaknesses of different tests in the field of recreation. Introduction to the fundamentals of data collection, management, and statistical analysis.

#### **RECR4141 - Administration of Recreational Programs I.**

*Three credits. Three hours of lecture per week.*

Basic administrative principles related to the delivery of recreation services including legal considerations, planning principles, facility operation, financing and budgets, marketing, public relations, principles of organization and coordination, personnel administration, and evaluation. This course will be offered face-to-face, hybrid and online modalities.

#### **RECR4142 - Administration of Recreational Programs II.**

*Three credits. Three hours of lecture per week.*

Basic administrative principles related to the delivery of recreation services including legal considerations, planning principles, facility operation, financing and budgets, marketing, public relations, principles of organization and coordination, personnel administration, and evaluation. This course will be offered face-to-face, hybrid and online modalities.

#### **RECR4145 - Organization of Recreative Service in Puerto Rico.**

*3 credits. Three hours of lecture per week Prerequisites: RECR 3685, 4141 OR 4142 AND/OR PERMISSION OF THE COORDINATOR.*

Analysis and evaluation of the state of affairs of the recreative services system of the island, including the public and private sectors. Emphasis in organization and scope of said services: visits to recreation organizations and the evaluation of the services they offer. This course is designed as a preamble to the recreation internship. This course will be offered face-to-face, hybrid and online modalities.

#### **RECR4156 - Seminar: Problems in Recreation, Leisure and Free Time.**

*Three credits. Three hours of seminar per week Prerequisites: RECR3820 RECR3685.*

Study of diverse topics related to recreation, leisure and free time in Puerto Rico. Identify and analysis processes that influence the delivery of contemporary recreation services and the new tendencies in said processes. Current topics that affect the recreation behavior of Puerto Ricans will also be examined. Could be repeated twice.

**TEED3005 - Media Production Techniques Display Technique.**

*Two credits. Three hours of lecture and three hours of laboratory per week.*

Acquaints the student with the different types of displays namely: bulletin boards, flannel boards, exhibits, charts and posters. Provides training in the design and production of displays.

**TEED3006 - Media Production Techniques-transparencies.**

*Two credits. Three hours of lecture and three hours of laboratory per week.*

Acquaints the student with transparency production methods such as: handmade transparencies, thermal, ammonia and lifting. Includes the design and production of transparencies using each method.

**TEED3007 - Media Production Techniques - Still Photography.**

*Two credits. Three hours of lecture and three hours of laboratory per week.*

Acquaints the learner with the different basic types of photographic cameras, their use and operation. Provides training in the process of developing black and white films as well as some basic laboratory techniques.

**TEED3008 - Introduction to Educational Technology.**

*Three credits. Three hours of lecture per week.*

Analyzes the role of educational technology in contemporary education familiarizes the student with the concept of instructional systems, educational media, its characteristics, potentialities, and limitations. Discusses the role of educational technology in the teaching learning process and communication. 12-08-97

**TEED3015 - Evaluation and Selection of Technological Resources.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR.*

Offers the student an opportunity for handling the various audiovisual aids and resources in order that he may learn to evaluate them and give them their optimum usage. Acquaints the student with a variety of local and foreign sources of audiovisual materials. 12-08-97

**TEED3016 - Systematic Design of Instruction.**

*Two credits. Six hours of lecture per week Prerequisites: EDTE 3008.*

Development of basic skills of systematic instructional design. Emphasis is given to daily planning as well as by topics. Analysis of the relationship that should exist between expected learning and involvement of the student in the process.

**TEED3017 - The Integration of Instructional Technology and the Computer to the Curriculum of the Elementary Level.**

*3 credits. Three hours of lecture per week.*

Study of the elements of instructional design for the appropriate selection, evaluation, and use of the technology in the teaching-learning process. Includes the design and development of low-cost materials using the computer. Provides experiences for the integration of instructional computer programs to the curriculum of the elementary level. (c)

**TEED3018 - The Integration of Instructional Technology and the Computer to the Curriculum of**

### **the Secondary Level.**

*3 credits. Three hours of lecture per week.*

Study of the elements of instructional design for the appropriate selection, evaluation, and use of technology in the teaching-learning process. Includes basic experiences in the use of computers and its integration to the teaching and learning process. (c).

### **TEED3020 - Production of Instructional Modules.**

*Two credits. Six hours of lecture for five weeks.*

To capacitate students in the design and production of an instructional module. Analyzes the relation between the characteristics of the module and its function as auto-instructional material.

### **TEED3027 - the Technology of Instruction and the Use of the Computers in the Preschool Education.**

*3 credits. Three hours of lecture per week.*

Study of elements of instructional design for the appropriate selection, evaluation, and use of information technology in the teaching-learning process. Includes basic experiences with computers and its integration with the teaching and learning process. Includes field experiences in diverse settings where the future teacher can observe, develop, and facilitate learning that uses can observe, develop, and facilitate learning that uses information technology.

### **TEED3035 - the Integration of Telecommunications to the Classroom.**

*Three credits. Three hours of discussion per week.*

The study of the telecommunications as an effective medium for the enrichment to the learning process. Basic knowledge is imparted for the identification, searching and interchange of information. Discussion of the vocabulary, equipment and teaching strategies that can be used in distance communication.

### **TEED3125 - Educational Communication.**

*Three credits. Three hours of lecture per week.*

Study of the basic principles of educational message design and the principles of educational message design and the principles of verbal, nonverbal and visual communication. Develops in the future educational professional the knowledge and skills to use digital media for the purpose of designing, planning and producing educational messages in print and electronic materials that incorporate text, images and sound. Face to face hybrid and distance course.

### **TEED4005 - Media Production Techniques- Script Writing.**

*Two credits. Three hours of lecture and three hours of laboratory per week.*

Acquaints student with the basic elements of script writing. Familiarizes students with the types of expression typical of the television and films. It also provides participants with the basic elements involved in the writing of a script for slide-tape presentations.

### **TEED4007 - Administration of Educational Technology Programs.**

*Three credits. Three hours of lecture per week Prerequisites: EDTE 3008 AND 3015.*

The organization and administration of audiovisual programs in the elementary and secondary schools. Includes an analysis and evaluation of existing programs. Principles and practices of vitalizing teaching through the proper use of audiovisual materials. the responsibilities of an audiovisual coordinator.

### **TEED4009 - Educational Technology Seminar.**

*Four credits. One lecture and three laboratories per week.*

Planning an individual study program with the use of audiovisual aids. The seminar will deal with the use of

programmed instruction, 8mm single concept films, closed circuit television and the establishment of learning centers and other related information.

**TEED4016 - Media Production Techniques - Television.**

*Two credits. Three hours of lecture and three hours of laboratory per week.*

Theory and practice in closed-circuits television production. Laboratory experiences with special emphasis in script writing, camera techniques, lighting, production of visuals for television and direction techniques will be provided.

**TEED4017 - Media Production Techniques-production of Audio Material.**

*Two credits. Three hours of lecture and three hours of laboratory per week.*

Provides basic knowledge in the production of audio-materials such as reel to reel, cassette, sound page and card recordings. Includes the selection, evaluation, utilization, and maintenance of recorded materials.

**TEED4018 - Introduction to Computers in Education.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR IN ARTS.*

An introduction to the integration of computers in education. Emphasis on their evolution, impact and educational implications, theories supporting computer use, the analysis of studies and research findings, and the evaluation and selection of software. Practice with some computer programs. Study of basic aspects about a computer lesson development.

**TEED4020 - Learning by Computer.**

*Three credits. Three hours of lecture per week Prerequisites: EDTE 4018*

To provide the student the opportunity to produce lessons for computer assisted instruction utilizing microcomputers. Students will have the opportunity to interact with the different types of computer's assisted instruction, computer languages and evaluation methods available for use in microcomputers for instructional purposes. 12-08-97

**TEED4027 - Production of Slides for Education.**

*Three credits. One hour of lecture and five hours of laboratory work per week Prerequisites: TEED 3009*

The creation of a visual sequence of ideas, production planning, script writing and slide and film strip production. the actual presentation of an original slide or film strip production is required. 12-08-97

**TEED4028 - Design and Production of Instructional Materials for the Primary Level.**

*Two credits. Two hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

This course will develop basic skills in the design and production of simple materials for teaching at the primary level. (c)

**TEED4029 - Radio and Television in Education.**

*Three credits. Three hours of lecture per week.*

Principles and practices of modern education in relation to production and utilization of radio and television broadcasts. Emphasis is given to the following: program production, script writing, teachers' guides, and other related aspects.

**TEED4030 - Production Techniques: Design of Electronic Presentation for the Classroom.**

*One credits. Three hours of discussion for five weeks.*

Design and development of technical project using an instructional problem solution approach. the student will develop a project of his/her interest and harmonious with his/her academic major. the project will be developed under the guidance, supervision, and counseling of a professor. Some of the products that could

be developed are multimedia lesson using authoring software, video lesson, and instructional units using technology, among others. January 17, 2001.

**TEED4036 - Educational Motion Picture Production.**

*Four credits. Two hours of lecture and three hours of workshop per week.*

Introduction to the fundamental notions in the planning and production of educational motion pictures. Laboratories experience in camera work, movie production, direction, lighting, script writing, editing, sound recording and special effects. the role of motion picture in an educational program.

**TEED4038 - Productivity Programs for Microcomputers.**

*Three credits. Three hours of lecture per week Prerequisites: EDTE 4018.*

Prepares teachers in the use of programs designed to facilitate administrative work such as: keeping students records, writing documents, preparing handouts, and keeping inventories among others.

**TEED4039 - Educational Technology for Adult Education.**

*Three credits. Three hours of discussion per week Prerequisites: EDFU 4058 CO-REQUISITES*

Study of the diverse forma of educational technology and its use in adult education; includes the study of basic concepts of instructional design, selection, and evaluation of educational material. Educational experiences using internet and world wide web will be included. 07-06-99

**TEED4045 - Computer Laboratory Administration.**

*Three credits. Three hours of lecture per week Prerequisites: EDTE 4018.*

Development of the administrative competencies necessary to realize common activities at a computer laboratory: preparing inventories, buying equipment and materials, planning seminars, preparing budgets, and evaluating and integrating materials to the elementary and secondary school curriculum.

**TEED4046 - Seminar: Tendencies in Educational Technology.**

*Three credits. Three hours of lecture per week Prerequisites: TEED 4007.*

Analysis of theoretical and practical issues in educational technology. Discussion of new tendencies in educational technology, their impact on the process of learning and teaching and the development of logical projects. Emphasis is given to research related to the design and development of initiatives in technology and their impact on the educational process. 08-16-99

**TEED4047 - Production Techniques: Design of Electronic Publications for A School Environment.**

*Two credits. Two hours of lecture and two hours of discussion per week.*

Discussion of the advantages and limitations of electronic publications in the school environment. Analysis of the importance of the graphic design and elements in the verbal and visual communication of print messages developed by electronic media such as the computers. Emphasize the use, classification, advantages, and disadvantages of the different kind of typography. Students will produce schools' newspapers, bulletins, brochures, guides, and flyers, among other creations. August 14, 2001.

**TEED4995 - Innovative Project in Educational Technology.**

*One to Three credits.*

Discussion of the advantages and limitations of media and software used for electronic presentations. the student will design and develops on electronic presentation appropriate integrating multimedia. January 17, 2001.

**TEED5005 - Distance Learning: Theory and Practice.**

*Three credits. Three hours of lecture per week.*

Study and analysis of theory of distance learning and evaluation of the practice. Includes methods for the design, development, presentation, and evaluation of distance learning. Emphasis in interactive videoconference. 17-08-98

**TEED5006 - Digital Story Tell in Education and Technology.**

*Three credits. One hour lecture and two hours workshop per week.*

the purpose of this course is to provide general knowledge about the integration of digital storytelling to the curriculum based on the theoretical principles and the research of the use of digital video and dialectic as teaching practice.

**COLLEGE OF GENERAL STUDIES**

**CIBI3001 - Fundamentals of Biology I.**

*3 credits. Three hours of discussion: with laboratory two additional hours, with workshop one additional hour per week.*

The biological science course, CIBI 3001, main goal is to contribute to the student's formation as a human being through the study of the biological sciences, as a particular area, among the fields of knowledge. Class discussion is stressed and the development of skills allowing students to better understand their world and themselves is emphasized. the main themes discussed and analyzed include nature and methodology of science, cell concept and homeostasis. the way biologists work is illustrated through the analysis of chosen texts, books, study guides and classical works. the course requires three hours of discussion and two hours of laboratory activities per week for first year students. in addition to the three hours of discussion, a one- hour weekly workshop is required for students who are either sophomores, juniors, or seniors. (c)

**CIBI3002 - Fundamentals of Biology II.**

*3 credits. Three hours of discussion: with laboratory two additional hours, and with workshop one additional hour per week.*

The biological science course, CIBI 3002, main goal is to contribute to the student's formation as a human being through the study of the biological sciences, as a particular area among the fields of knowledge. Class discussion is stressed and the development of skills allowing students to better understand their world and themselves is emphasized. the themes discussed include reproduction, genetics, evolution, and ecology. the way biologists work is illustrated through the analysis of chosen texts, books, study guides and classical works. the course requires three hours of discussion and two hours of laboratory activities for first year students; three hours of discussion and one hour of workshop for students who are either sophomores, juniors, or seniors. (c)

**CIBI3005 - General Education Basic Course in Biological Science.**

*3 credits. Three hours of lecture and two hours of laboratory work per week Prerequisites: CONSENT OF THE DIRECTORY.*

The biological science course CIBI3005 has among its goals to increase the scientific literacy of the student who will be specializing in elementary education. This is done through the study of the following topics from the perspective of general education: nature of science, living matter, physiology, ecology, and evolution. the use of different teaching learning strategies, and the discussion and analysis of the topics is promoted.

**CIBI3006 - Interdisciplinary Biological Science Course with Emphasis in Environmental Conservation I.**

*3 credits. Three hours of discussion and two hours of laboratory work per week.*

This is a course whose goal is to contribute to the integral formation of the student as a human being through the interdisciplinary study of the biological sciences. the course emphasizes an open dialog and the



development of skills in the students that allow a better understanding of themselves and the world around us, in order to make informed decisions and solve their problems. Specialists in the social sciences and architectural fields will participate. Students pursuing a baccalaureate degree in environmental design will have priority over other students, but the course will be open to any student who wishes to enroll. the core concepts of the discipline such as organization, interaction, continuity and evolution and their relationship with the social sciences, among others, will be discussed. the topic of bioethics receives special attention in the course. the course requires 3 hours of lecture and 2 hours of laboratory including field trips. (c)

### **CIBI3007 - Interdisciplinary Biological Sciences Course with Emphasis in Environmental Conservation II.**

*3 credits. Three hours of discussion and two of laboratory work per week Prerequisites: CIBI 3006.*

This is a course whose goal is to contribute to the integral formation of the student as a human being through the interdisciplinary study of the biological sciences. the course emphasizes an open dialog and the development of skills in the students that allow a better understanding of themselves and the world around us, in order to make informed decisions and solve their problems. Informal meetings and workshops with the specialists in environmental, social, and urban planning fields will be offered. Students pursuing a baccalaureate degree in environmental design will have priority over other students, but the course will be open to any student who wishes to enroll. Basic concepts in ecology will be discussed and analyzed allowing the course to focus on appreciation, conservation, and management of natural resources in Puerto Rico. Sustainable development of communities, the development of urban forest and ecocities will also be addressed. Face-to-face, hybrid and distance. 08-2021

### **CIBI3008 - Ecology and Sustainable City Planning.**

*Four credits. Four hours of discussion per week.*

This is an elective course with a multi and interdisciplinary perspectives presenting the student with the interaction between the community of organisms, including human being, and their environment. the course also presents diverse strategies as possible solutions to problems that emerge as a consequence of unsustainable use of earth`s natural resources. Through the dialogic method, the students discuss controversies existing between antagonist sectors of society such as: ecology, urban planning, public politics, and economy. the topics to be discussed include complex levels of biosphere, biodiversity, landscaping ecology, design and sustainable urban planning. the educational strategies include computer technology, field trips, research activities and oral presentations.

### **CIBI3015 - Investigation in Biology for the Development of Scientific Literacy: Homeostatic Mechanisms.**

*Three credits. Three hours of lecture and two hours of laboratory per week.*

This is an alternative course in biological sciences that fulfills the natural sciences requirement in general education. the basis of this course will be the study of the homeostatic process and how it is manifested in human beings and other animals. According to the process selected to be studied during the semester, the following topics of the nature of science are developed, physiology: its structure and function and the cell. Through study and research in the biological sciences, this course promotes the development of scientific culture in the students who will exercise their capacities to learn disclose knowledge by means of bibliographical research and laboratory experiences the student's process of critical reasoning is the focus of this educational experience. Through investigation, the student has the opportunity to evaluate socio-historic conditions, besides the theoretical bases of scientific reasoning. (c)face-to-face, hybrid and distance learning course. Effective august 2021.

### **CIBI3016 - Fundamentals of Biology: Interaction and Continuity of Life.**

*Three credits. Three hours of discussion and two hours of laboratory per week.*

This is an alternative course of biological sciences that fulfills the natural science requirement in general education. the goal is to contribute to the integral formation of the student through the study of biological sciences from a multi and interdisciplinary perspective. the methodologies used in the course include open dialogue, the use of technology, analysis of selected readings, investigation, and laboratory experiences and cooperative teaching and learning. the course promotes critical thinking skills that foster in students a better understanding of themselves and the world. the following topics are discussed and analyzed: ecology, reproduction, genetics, and organic evolution. Face-to-face, hybrid and online course

### **CIBI3018 - Origin and Evolution of Life.**

*Three credits. Three hours of discussion and two of laboratory per week.*

This course is an alternative in biological sciences to fulfill the natural sciences requirement in general education component. It studies the theories of the origin and evolution of life and how these theories have change the knowledge of the natural sciences, the humanities and the social sciences the biological concepts will be studied from multi and interdisciplinary perspectives. Using the dialogic method, the following topics will be discussed the nature and methods of biological sciences, the origin of biomolecules and cells principles of genetics, the origin of species by means of natural selection presented by Charles Darwin, Neo-Darwinism, and human evolution. Includes laboratory experiences.

### **CIBI3025 - Investigation in Biology for the Development of Scientific Literacy: Environmental, Evolutive and Genetic Issues.**

*Three credits. Three hours of lecture and two of laboratory per week.*

This is an alternative course in biological sciences that fulfills the natural sciences requirement in general education. the topics to be developed in this course are ecology, evolution, reproduction, and genetics. the main topic of the course could evolve around one of the following topics: biotechnology, environmental problems and conservation, or the relationship of the evolution process in different levels of organization in nature. Through study and research in the biological sciences, this course promotes the development of scientific culture in the students who will exercise their capacities to learn and disclose knowledge by means of bibliographical research and laboratory experiences. the student's process of critical reasoning is the focus of this educational experience. Through investigation, the student has the opportunity to evaluate socio-historic conditions, besides the theoretical bases of scientific reasoning. Face-to-face, hybrid and distance learning course. Effective august 2021.

### **CIBI3026 - Fundamentals of Biology: Organization and Homeostasis of Organisms.**

*Three credits. Three hours of discussion and two hours of laboratory per week.*

This is an alternative course of biological sciences that fulfills the natural science requirement in general education. the goal is to contribute to the integral formation of the student through the study of biological sciences from a multi and interdisciplinary perspective. the methodologies used in the course include open dialogue, the use of technology, analysis on selected readings, investigation, and laboratory experiences and cooperative teaching and learning. the course promotes critical thinking skills that foster in students better understanding of themselves and the world. the course covers and analyses the following topics: nature and methodology of science, nature of the biological sciences, chemical characteristics of organism, cellular bases of life and homeostasis in organism. Face-to-face, hybrid and online course

### **CIBI3027 - Climate Changes and Caribbean Ecological Systems.**

*Three credits. Three hours of discussion and two of laboratory per week.*

Three credits. Three hours of discussion and two of laboratory per week.

### **CIBI3028 - Science Biotechnology and Society.**

*Three credits. Three hours of discussion and two of laboratory per week.*

This course is an alternative in biological sciences to fulfill the natural sciences requirement in the general education component. Using the dialogic method, several topics will be discussed from an interdisciplinary perspective including scientific discoveries and their biotechnological applications. Various educational experiences will be provided in order to contribute to the integral formation of the student in such a way that she or he will be able to evaluate the impact of biotechnological development on society and the influence of society on biotechnological development. The core topics are the nature of biological sciences, chemistry of life, molecular genetics and biotechnology. Includes laboratory experiences. Face-to-face, hybrid and distance modalities. Effective August 2021.

### **CIBI3035 - Ecosystems and Biodiversity.**

*Three credits. Three hours of discussion and two hours of laboratory per week.*

This course in biological science is an option to fulfill the natural science requirement in general education. It provides an integral view of nature and the human being. Through the discussion of selected topics, the students are presented with the ecological diversity and richness of species in the environment. Laboratory experiences will help develop student awareness of sustainable use of natural resources. Teaching strategies incorporate educational field trips, laboratory and field research activities, oral presentations and analysis of selected articles. Discussion topics include organization levels of living things, ecology and ecosystems, biogeochemical cycles, biodiversity, speciation mechanisms and environmental problems. Face-to-face, hybrid and distance and online modalities effective August 2022.

### **CIBI4006 - Forensic Analysis of DNA: Case Studies of the Impact on Anthropology and the Judiciary System.**

*3 credits. Three hours of discussion and one hour of laboratory per week.*

This course will be offered to the students of the natural science college to fulfill the science component requirements in the general studies college. Its goal is to introduce the student to scientific and technical aspects that act as catalysts for the cultural and social structures evolution. The dialogic method is used to discuss and analyze the diversity of topics. Laboratory experiences are included in which the students will perform DNA typing techniques. The forensic DNA analysis and the historical, legal and ethical aspects related to them conform the course focal themes. The use of forensic DNA proceedings by molecular anthropologists and their contribution to this field are also discussed. Forensic science, forensic DNA analysis and molecular anthropology are the course three main units. Face-to-face, hybrid and distance modalities. Effective August 2021.

### **CIBI4105 - Seminar on Current Debates in the Biological Sciences.**

*Three credits. Three hours of seminar per week*

Seminar of variable content focused on different contemporary debates as an option to fulfill the general education requirement in natural sciences. It is designated for students of the college of natural sciences. Using an inter-disciplinary approach, debates in the biological sciences focusing on their scientific, technological, social, ethical, and humanistic relevance within its national and global context are analyzed. The course requires an oral presentation of a final written research paper. This course will be offered in face-to-face, hybrid, distance, and online modalities. Effective January 2022.

### **CIBI4175 - Social and Bioethical Aspects of Organ Transplant.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: CIBI 3001, 3002 AND/OR GENERAL BIOLOGY 1 AND 2.*

The focus of this course is science, technology, and society. It will examine basic scientific concepts, biological/physiological aspects and the technological advances which have led to the development and use of organ transplants, and the impact which the use of this technology has had on human beings. Science processes will be discussed and the organization of the pertinent systems at the level of the organism as a

whole. Homeostasis, and the processes which alter the homeostatic processes will be stressed. Emphasis will be placed on these concepts and on how scientific knowledge is built. the history of the development of the science of transplantation and how this has affected society and the legislative processes will also be discussed. the core theme of the course will be organ transplants, with emphasis on the development of the two centers which practice transplantation in Puerto Rico. from an inter and multi- disciplinary approach, the social, ethical, and moral problems, including the concept of the death which these engender will be discussed. 14-08-01

### **CIBI4991 - Interdisciplinary Topics in Biological Sciences.**

*One to Six credits. One to six hours of discussion per week.*

This is an elective course where biological sciences topics are discussed through an interdisciplinary approach. the topics are characterized by their relevance and controversial insight to modern society. the topics and credits hours are variable. An emphasis is made in the analysis of the application and implications of the biological sciences issues and associated technologies for daily life and informed decision-making situations.

### **CIFI3001 - Introduction to Physical Sciences I.**

*Three credits. Three hours of lecture and a period of laboratory per week.*

the course aims to teach the structure and objectives of scientific knowledge through the discussion and analysis of original scientific papers. These include selections from most of the prominent scientists who have played a distinguished part in the development of science as a body of knowledge. Celestial and terrestrial motions and the structure of matter are the main problems studied. (c)

### **CIFI3002 - Introduction to Physical Sciences II.**

*Three credits. Three hours of lecture and a period of laboratory per week.*

the course aims to teach the structure and objectives of scientific knowledge through the discussion and analysis of original scientific papers. These include selections from most of the prominent scientists who have played a distinguished part in the development of science as a body of knowledge. Celestial and terrestrial motions and the structure of matter are the main problems studied. (c)

### **CIFI3003 - Foundations of Significant Changes in the Physical Sciences: Copernican and Newtonian Revolutions.**

*3 credits. Three hours of discussion and two hours of laboratory per week.*

This course is an option to fulfill the physical sciences requirement of the natural sciences component of general studies. It includes the study of the relationship between the concepts of space, time and motion as exemplified in the study of celestial and terrestrial motions from the perspective of the ancient Greek theories of motion up to the modern conceptions of Newtonian mechanics. the emphasis on the social, historical and epistemological aspects in the construction and development of scientific knowledge provide unity to the course. Laboratory experiences are included to illustrate the subject matter. (c)

### **CIFI3004 - Foundations of Significant Changes in the Physical Sciences: Relativistic and Quantic Revolutions.**

*3 credits. Three hours of discussion and two hours of laboratory per week.*

This course is an option to fulfill the physical sciences requirement of the natural sciences component of general studies. It includes the study of the relationship between the concepts of space, time and motion from the perspective of the revolutions in modern physics. There will be a detailed discussion about the transformation of the properties and nature of time and space from newton to the relativity and quantum mechanics theories. the emphasis on the social, historical, and epistemological aspects in the construction and development of scientific knowledge provide unity to the course. Laboratory experiences are included to

illustrate the subject matter.

**CIFI3005 - Basic Course of General Education in Physical Sciences.**

*Three credits. Three hours of lecture and two hours of laboratory work per week Prerequisites: HAVE PERMISSION OF THE EDUCATION PROGRAM.*

the fundamental principles of the physical sciences are studied from the point of view of general education. the process of critical analysis and the acquisition of fundamental scientific knowledge are emphasized. (c)

**CIFI3007 - Physical Sciences and Cyber music.**

*Three credits. Three hours of discussion and two hours of laboratory per week.*

An interdisciplinary course designed as an option for the fulfillment of the required natural sciences courses in the general education component. It incorporates aspects from physical sciences, humanities and technology. By studying the fundamentals of acoustics, the development of knowledge concerning musical scales through history and by using the computer, the student should be able to appreciate music far beyond the aesthetic aspect integrating the said components. the course methodology is based principally in the discussion of assigned readings.

**CIFI3008 - Computer Science with Logo for Non-scientist - Intermediate Programming.**

*Three credits. Three hours of lecture per week Prerequisites: AN INTRODUCTORY COURSE ON COMPUTER LITERACY (COLLEGE LEVEL) AND PERMISSION OF THE DIRECTOR.*

Introduction to the principles and methods of computer sciences using logo (version lcsi) language in a context essentially different from the usual in the computer science curriculum and the natural science and business applications. to make available the powerful ideas of the intermediate programming of computers, and the goals and methods of the serious computer scientist, at an intermediate level, to the students who want to use the computer as an educational tool to improve their mental reflexive attitudes and their abilities for the formal, systematic, and critical thinking.

**CIFI3010 - Elements of Physical Science for Nutrition and Dietetics.**

*Three credits. Three hours of discussion and one hour of laboratory work per week.*

Themes from physical sciences are presented that include topics from mechanics and thermodynamics as well as some aspects on the philosophy of science. A study of motion and its related phenomena are discussed according to ancient cosmological theories and Newtonian synthesis which result in the development of the concepts of work, energy and the laws of thermodynamics. the logic and epistemological aspects that intervene in the construction and structure of scientific knowledge are emphasized in the course. Laboratory applications of the body of scientific knowledge in the area of nutrition. 17-08-98

**CIFI3013 - Physical Sciences, Technology and Society: Foundations and Interrelations: Science and Nuclear Technology.**

*3 credits. Three hours of discussion and two hours of laboratory per week.*

This course is an alternative to fulfill the physical sciences requirement of the natural sciences component of general studies. It studies physical sciences and technology themes in a three-level approximation: the epistemological analysis of science and technology; the historical and social evolution of the themes; and the critical exam of their applications that includes ethical, environmental, and social problems. its content themes are atomic theory as models of the atom; ionic radiation in its electronic and nuclear forms; and equipment for the measurement, generation and application of the irradiative energy in contextual situations. the course includes laboratory experiences.

**CIFI3014 - Physical Sciences, Technology and Society: Foundations and Interrelations: Science and Informatics Technology.**

*3 credits. Three hours of discussion and two hours of laboratory per week.*

This course is an alternative to fulfill the physical science requirement of the natural sciences component of general studies. It studies physical sciences and technology themes in a three-level approximation: the epistemological and sociological analysis of science and technology; the historical and social evolution of the themes; and the critical exam of their applications, that includes ethical, cultural, and social problems. its content themes are gravitational and electromagnetic properties of matter and its technological products as a foundation of the informatics revolution. the course includes laboratory experiences.

### **CIFI3016 - Physical Sciences, Nanotechnology and Society.**

*Three credits. Three hours of discussion and two of laboratory per week.*

This course is an option in physical sciences to fulfill the natural sciences requirement in the general education component. It studies topics of nanoscience and its associated nanotechnology by integrating knowledge into three levels: its epistemological analysis, the historical development of the thematic content and the critical examination of the problems associated with their applications, including ethical, environmental and social issues. the content focuses on the science of materials in terms of the atomic theory of matter. for this purpose, students are provided with the foundations and practices to achieve scientific literacy in these fields. Includes laboratory experiences.

### **CIFI3026 - Origin and Evolution of the Earth.**

*Three credits. Three hours of discussion and two of laboratory per week.*

This course is an option in physical sciences to fulfill the natural sciences requirement in the general education component. We discuss evolution from an epistemological approach in the context of transformations in the universe, our solar system, planet earth, and the first self-replicating molecules. By studying evolutionary processes in cosmology, earth sciences, and molecular chemistry the student will comprehend key concepts such as: the organization of matter, system interactions and continuity in change process. Processes that are part of the evolution of life are studied from an inter and multidisciplinary perspective. Includes laboratory experiences.

### **CIFI3031 - Basic Chemistry Principles I.**

*Three credits. Three hours of lecture and one of demonstration per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Study of chemistry from the perspective of a general education. 13-08-02

### **CIFI3032 - Basic Chemistry Principles II.**

*Three credits. Three hours of lecture and one of demonstration per week Prerequisites: PERMISSION OF THE DIRECTOR AND CIFI 3031*

Study of chemistry from the perspective of a general education. 13-08-02

### **CIFI3036 - Energy, Environment and Environment.**

*3 credits. Three hours of discussion and two hours of laboratory per week Prerequisites: PERMISSION OF THE DIRECTOR.*

This course is an alternative in physical sciences to comply with the natural sciences requirement of the general education component. Concepts, principles and methodologies used in the construction of knowledge in the physical sciences are studied through Socratic discussions in the areas of energy, environment and conservation.

### **CIFI3037 - Climate Change and its Global Implications.**

*Three credits. Three hours of discussion and two of laboratory per week.*

This course is an alternative in physical sciences to fulfill the requirement of natural sciences in the general

education component. It studies planet earth's systems and global climate change. Earth systems complexity will be analyzed addressing our knowledge construction on the environment, the scientific and technological factors that foster our development at a planetary scale and our impact on earth's climate and its implications. It incorporates conceptual models and visualizations, as the use of system dynamics modeling, as a technological tool. It examines biogeochemical cycles and the anthropogenic impact on the environment. It addresses topics with an interdisciplinary perspective, emphasizing on ethics. the student will do research around the implications of earth's climate change. Includes laboratory and technology experiences.

### **CIFI3041 - Foundation of Scientific Knowledge I.**

*Three credits. Three hours of lecture per week Prerequisites: FOR PHARMACY STUDENTS*

The course includes some of the main topics related to the foundations of the natural sciences and scientific knowledge. 13-08-02

### **CIFI3042 - Foundations of Scientific Knowledge II.**

*Three credits. Three hours of lecture per week Prerequisites: CIFI 3041*

Examination of central problems of the philosophy of science, like the nature of scientific explanation, prediction, confirmation, and falsification, as criteria of demarcation in scientific theories. 13-08-02

### **CIFI3055 - Fundamentals and Development of Physical Sciences: Motion.**

*Three credits. Three hours of lecture and two hours of laboratory per week*

This course is an alternative to fulfill the physical science requirement of the natural sciences component of general studies. the course includes the study of concepts, principles and methodologies used in the construction of knowledge in the physical sciences. Original scientific works are discussed and analyzed looking at the construction, deconstruction, and reconstruction of the scientific discourse. Epistemology covers the content, in which the emphasis is on celestial and terrestrial motions. the course discusses the social-historical context of the formation of scientific knowledge. It includes laboratory experiences. Face-to-face, online and hybrid course. Effective January 2021.

### **CIFI3065 - Fundamentals and Development of Physical Sciences: Atomic Theory.**

*Three credits. Three hours of lecture and two hours of laboratory per week.*

This course is an alternative to fulfill the physical science requirement of the natural sciences component of general studies. the course includes the study of concepts, principles and methodologies used in the construction of knowledge in the physical sciences. Original scientific works are discussed and analyzed looking at the construction, deconstruction and reconstruction of the scientific discourse. the development of atomic theory is studied and the social-historical context that permeates it is discussed focusing in the central problem, that is the explanation of the physical and chemical behavior of matter. It includes laboratory experiences. This course offered face-to-face, hybrid and online modalities. Effective august 2021.

### **CIFI3074 - Materials in Art and Conservatory.**

*Three credits. Three hours of lecture and two hours of laboratory per week.*

Interdisciplinary course that meets the requirement of natural sciences of general education; includes laboratory. the relationship of experimental sciences with tangible cultural heritage artifacts is introduced, emphasizing the study of the materials that compose them. Topics such as the structure of matter, the different types of bonds between atoms and molecules, chemical compounds and their use in the plastic arts according to their characteristics are addressed. the student will be able to understand how scientific knowledge helps to understand the compatibility between materials, the deterioration of these materials and some methodologies used in the field of the conservation of cultural artifacts. the scientific concepts addressed in the historical development of the interactions between chemical entities serve as the basis for

working on epistemological aspects. the dialogic method is favored through the study of real cases. This course offered in face-to-face and hybrid modalities.

### **CIFI3075 - Science and Art.**

*Three credits. Three hours of lecture and 2 of laboratory per week.*

This interdisciplinary course fulfils the requirement of physical sciences of the natural sciences component of general education. It introduces the relationship of experimental sciences with artifacts of cultural interest, emphasizing the study of optical phenomena. Topics such as the nature of color and light phenomena and the characterization of objects and materials through different types of simple techniques are discussed. the student will understand how scientific knowledge aids in comprehending the artifact, evidencing the authenticity of objects and for establishing a methodology to stabilize or pre-serve cultural heritage. the scientific concepts addressed and the development of knowledge of optical phenomena underlies the epistemological aspects under study. the dialogic method through the analysis of case studies is favored. Laboratory sessions that work with different materials used in plastic arts are included. Face-to-face, online and hybrid course. Effective January 2021.

### **CIFI3100 - Nanolithography.**

*Three credits. Three hours of lecture per week.*

Elective course that addresses the nanolithography processes. the course covers the fundamentals of nanolithography that involve the science of optical imaging, photochemistry, material science concepts and technological advances in lithography, including the production processes of nanodevices. Various applications of micro and nanolithography are studied, as well as the construction of semiconductor devices, monitors, flexible electronics, micro-electromechanical systems and applications in biotechnology. the topics are presented in lectures by solving specific problems, process simulation activities, demonstration experiments, and potential site visits outside the classroom.

### **CIFI3115 - Foundations and Origin of Classical Mechanics: A Selection of Concepts and Principles.**

*Three credits. Three hours of discussion and two of laboratory per week.*

This course is an option to fulfill the requirements of physical sciences of the natural sciences component of general education. It is emphasized the study of motion, giving attention to concepts such as superposition of forces and static equilibrium, among others. Including solid bodies rotation, epistemological and socio-historical aspects of classical mechanics provide the foundations to work with a selection of concepts and principles of the discipline and the method used in the construction of scientific knowledge. Some original publications are analyzed and discussed in order to appreciate how scientific discourse is constructed, deconstructed and reconstructed. the course includes laboratory experiences.

### **CIFI3300 - Nanotechnological Processes.**

*Three credits. Three hours of lecture per week Prerequisites: QUIM3001*

This is an elective course on nanotechnological processes which emphasis is placed on the processes to produce nanodevices. the processes under vacuum/ atmospheric pressures and some specific physical and chemical processes for the deposition of thin layers are studied. Wet and dry processes for deposition/ removal of materials are studied. Plasma processes are emphasized. the topics are presented in conferences sessions using problem-serving strategies. the course could include computational simulation, demonstrative experiments and visits to facilities outside the classroom.

### **CIFI3400 - Nanomaterials.**

*Three credits. Three hours of lecture per week Prerequisites: QUIM3001*

The course explains, in an epistemological and ethical context, the nature and properties of nanomaterials, considering safety aspects in their use. Safety protocols and the reduction of environmental and ecological



impacts are addressed. Specific cases of synthesis, handling and application of nanomaterials are examined. Nano ethical issues are related to production processes, use and impact upon human health, the environment or ecology. Information related to nanoscience is epistemologically discussed. Students are expected to establish interdisciplinary links among scientific, ethical and social aspects of nanotechnology, which promotes the developing of their ability to reflect and improve their research skills.

### **CIFI3500 - Characterization Techniques in Nanotechnology.**

*Four credits. One hour of lecture and three hours of laboratory per week Prerequisites: QUIM3001*

The course integrates theory and laboratory work to empower students in the use, practice and understanding of the instrumentation required in the characterization of nanomaterials and nanostructures. Practical aspects of optical, scanning probe (spm), scanning electron (sem) microscopes, basics of spectroscopy in the visible and ultraviolet (uv-vis), infrared (ftir) techniques are emphasized, among varied techniques as contact angle measurements, profilometry, etc. the topics are introduced in lectures; then the students operate the instruments in lab sessions. the course might include remote use of instrumentation and visits to materials characterization laboratories.

### **CIFI4005 - Origin of Physical Reality, Matter and the Universe: Compared Visions.**

*3 credits. Three hours of discussion per week.*

A course directed specifically to students of natural sciences as an option to fulfill the natural sciences requirements of the general studies component. in this seminar, without laboratory, we will study the ideas, development and physical foundations that underlie the various modern cosmological visions that have been proposed by working scientists in the areas of cosmology. Evolutionary biology, and high energy particle physics. We will examine ideas like the big bang theory of the origin of the universe, solar system formation, the beginnings of life and intelligence on earth, the fundamental constituents of matter, the nature of physical reality, the possibility of other dimensions or universes in addition to our own, time travel space exploration and the relationship between science and religion. This course will make frequent use of technological learning resources.

### **CIFI4043 - Man and Scientific Creation I.**

*Three credits. Three hours of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Comparative examination on what has constituted empirical science through the ages. This is done with the perspective of man as doer and creator of scientific knowledge. Emphasis will be given to the dynamic nature of science both in substantive context and in the overall productivity. the scientific concepts of ancient times and the middle age will be contrasted with those of the 20th century. 13-08-02

### **CIFI4044 - Man and Scientific Creation II.**

*Three credits. Three hours of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR AND CIFI 4043.*

Comparative examination on what has constituted empirical science through the ages. This is done with the perspective of man as doer and creator of scientific knowledge. Emphasis will be given to the dynamic nature of science both in substantive context and in the overall productivity. the scientific concepts of ancient times and the middle age will be contrasted with those of the 20th century. 13-08-02

### **CIFI4065 - Geological Processes, Disasters and Their Effects on Society.**

*Three credits. Three hours of seminar per week.*

Face-to-face course aimed at student of the faculty of natural sciences as an option to fulfill the natural sciences requirement of the general education component. Seminar, without laboratories, that will address the human aspects of geological events and will provide opportunities to establish interdisciplinary bridges with other areas of study and develop skills in research, analysis, bibliographic search, critical discussion, and

argumentation with reliable evidence. Specific cases of geological events will be discussed in the course. Field trips of chosen topics and discussion of original articles are included. the discussion will include the geological and anthropogenic framework of the area to assess the connections between both environments. Through the analysis of events, it will be studied how human activities interact with geological contexts, in addition, the student will identify social behaviors related to the risk of material and human losses.

#### **CIFI4074 - Materials Science in Art.**

*Three credits. Three hours of seminar per week.*

Interdisciplinary seminar course to meet the requirement of the component of general education in natural sciences for students of the faculty of natural sciences. the historical development of the concept of molecular bonding and interaction, the theoretical approaches to understand the behavior and the compatibility of chemical compounds are studied. Epistemological concepts are exemplified by the theories of link formation and molecular interactions. the characteristics and use of art materials are covered. the student will be able to understand how scientific knowledge explains the compatibility and deterioration of materials, or environmental aspects that accelerate their degradation. the dialogic method is favored through the study of real cases. It includes a theoretical or practical research project, related to materials used in cultural tangible heritage. It is offered in face-to-face or hybrid modalities.

#### **CIFI4075 - Science and Technology and Art.**

*Three credits. Three hours of lecture per week.*

This interdisciplinary course is offered to natural sciences students as an option to meet the physical sciences requirement of the natural sciences component of general education. Emphasis is placed on how experimental science contributes to knowledge and the preservation of objects that are of artistic or historic interest. At least one physical or chemical phenomenon will be chosen to study epistemological concepts, such as theories about light, and electrochemical fundamentals. Characterization and preservation of some materials of artistic interest are introduced. All of the topics are discussed through the dialogic method and analysis of case studies. Approval of the course requires the submission of a final project about the study of conservation of artistic or historic interest. the course may include visits to facilities outside the classroom.

#### **CIFI4995 - Interdisciplinary Topics in Physical Sciences.**

*One to Six credits. One to six hours of discussion per week.*

A course specifically directed to students of the natural sciences college option to fulfill the natural sciences requirement of the general studies component. Seminar without laboratory activities of varying topics, in which a particular area of physical sciences is approached so the student can build conceptual bridges in an interdisciplinary manner with different academic fields to promote the development of skills for research, analysis, bibliographic searching, critical discussion and evidence use to back up logical arguments. Students will learn about a specific content matter of contemporary relevance and emphasis will be put in how to connect and compare this content with academic disciplines that can impact and could be impacted by the topics under study, particularly with regard of the more important areas of knowledge such as humanities, social and natural sciences and associated technologies. Student may repeat the course with different topic.

#### **CIFI4996 - Undergraduate Research in Physical Sciences.**

*One to Three credits. One to three hours of discussion and 4 to 12 hours of research per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

Elective course that allows undergraduate student to develop a research experience in a specific topic of their interest, advised by professors from the department of physical sciences. the course fosters the development of competencies in specific research and highlights the connections among the different areas of the physical sciences and their ethic and technological contexts. the student will develop its project in diverse settings, such as research laboratories, libraries, computer centers, among others, until the total of

scheduled hours is completed. This course does not substitute the general education requirement in natural sciences. This variable credit course can be taken more than once with different research projects, up to a maximum of 6 credit-hours.

### **CISO3121 - An Introduction to Social Sciences.**

*Three credits. Three hours of lecture per week.*

The basic problems of man in contemporary society. the course has three fundamental aims: to show the social incorporation of the individual into his culture; to explore the sociohistorical background and beginning of modern western culture and relate Puerto Rico to that development; and to define the principal political, economic and cultural problems in the contemporary world. (c) face-to-face, hybrid and online course. Effective January 2021.

### **CISO3122 - An Introduction to Social Sciences.**

*Three credits. Three hours of lecture per week Prerequisites: CISO 3121.*

The basic problems of man in contemporary society. the course has three fundamental aims: to show the social incorporation of the individual into his culture; to explore the sociohistorical background and beginning of modern western culture and relate Puerto Rico to that development; and to define the principal political, economic and cultural problems in the contemporary world. (c) face-to-face, hybrid and online course. Effective January 2021

### **CISO3125 - the Body as An Object of Study: An Interdisciplinary Approach.**

*Three credits. Three hours of seminar per week.*

The human body will be studied from the interdisciplinary perspective of a historical, biological, and anthropological approach. Some of the body expressive manifestations, (organic, artistic, and gestural) will be studied, and thematically developed in class discussions and corporal performance experimentation. It is important to give a simultaneous and integrated approach to the sensible expressions of the body, therefore beside discussing the common scientific and philosophical character of the theme, we must take into consideration its sensible expression and learning experience forms. We propose to combine the dialogue with the practical experience as a methodological characteristic of the course. August 14, 2001.

### **CISO5995 - Interdisciplinary Seminar on Social Sciences.**

*One to Three credits. One to three hours of seminar per week.*

This seminar represents an opportunity to introduce and discuss specific topics from an interdisciplinary approach. These topics are research subjects in social sciences at the present time, they are part of the contemporary debates and they are not analyzed in other courses. the academic community has the opportunity to share research on very specific topics that are being developed by the professors, as well as those already completed (leading to doctoral thesis, publications or conferences). the topic of the seminar is variable; this topic and the research to be used are selected each semester by the professor, who will also define the methodology of the course. the duration and credits assigned to each seminar will also be variable, according to the characteristics of the seminar. August 12, 2003.

### **EDCO3001 - Personal Growth.**

*No credits. One hour of lecture per week Prerequisites: BE ADMITTED TO PEECA.*

This course promotes a personal growth process among the students of the experimental program of continuing education for adults. the study, analysis and experimentation of information and experiences will provide means to help the students attain an adequate balance in their personal-social, occupational and academic life. (c)

### **EDCO3002 - Personal Growth.**

*No credits. One hour of lecture per week Prerequisites: BE ADMITTED TO PEECA AND COED 3001.*

This course promotes a personal growth process among the students of the experimental program of continuing education for adults. the study, analysis and experimentation of information and experiences will provide means to help the students attain an adequate balance in their personal-social, occupational and academic life. (c)

### **ESGE3005 - Introduction to Mathematical Reasoning.**

*Three credits. Three hours of lecture per week.*

Introduction to the theory of sets; the development of the number system and its relationship with some of the problems in the foundation of mathematics. Different ways of looking at mathematics and its relation to other fields of knowledge.

### **ESGE3007 - Problems of Human Ecology.**

*Three credits. Three hours of lecture per week Prerequisites: BISC 3001-3002 OR ITS EQUIVALENT.*

Interdisciplinary analysis and study of the interrelated causal factors of important ecological problems.

### **ESGE3008 - Logical Mathematical Reasoning and Quantitative Analysis.**

*Three credits. Three hours of discussion per week.*

A general education course alternative to fulfill the requirement of the logical-mathematical reasoning and quantitative analysis component. the course develops logical-mathematical reasoning as well as quantitative analysis, and their relation to other disciplines through the discussion of examples for applications. It addresses aspects of the history and development of mathematics that characterize it as a formal science. It also includes elements of logic, set theory, numerical systems, mathematics for consumption, probability, and data analysis. (c) face-to-face, online and hybrid course. Effective January 2021.

### **ESGE3009 - Mathematics: Reasoning and Application.**

*Three credits. Three hours of discussion per week.*

A course designed as an alternative to comply with the logical-mathematical thinking and or quantitative analysis requirement as part of the general education component. It showcases the importance of rational thinking, logic and mathematics in daily life. It includes basic techniques of logic, mathematics, number theory, and basic ideas in algebra, probability and statistics of widespread use in society. It also highlights the role of quantitative thinking in a complete and interdisciplinary education. (c)

### **ESGE3015 - Seminar: Outlook on the Most Recent Biological and Medical Research.**

*Two credits.*

Study of various of the most recent and important biological and medical advances which have considerable impact on society and examination of their implications: genetic disease, sex determination, transplants, pesticides and herbicides, cancer, mind control, etc. Prominent members of the medical and scientific community who are involved in research within the different areas will be in charge of the presentations.

### **ESGE3016 - Seminar: Energy Generation and the Environment.**

*Three credits. Three hours of conference per week.*

The purpose of this seminar is to establish the correct relationship between the different forms of generating electrical energy and the environmental quality. the effect of possible future methods of generating electrical energy on the environment (such as solar energy) will also be examined. the specific topics will be 1) electrical energy generation by means of oil combustion and its effect on environmental quality 2) electrical energy generation by quality 3) electrical energy generation by means of solar energy and its effect on the environmental quality 4) comparison of the various methods of energy generation and of their effects on the environment.

**ESGE3018 - Introduction to the Study of Persons and Family Law.**

*Three credits. Three hours of lecture per week Prerequisites: BE A THIRD OR FOURTH YEAR STUDENT.*

The law. Concept, classifications and sources of the law. the value of jurisprudence. Brief and analysis of judicial decisions.

**ESGE3019 - Interdisciplinary Seminar in Molecular Biology Pertinent to Man, His Physical, Social Behavior and His Creativity.**

*Two credits.*

The seminar will consist of the discussion of a series of topics of current interest based on molecular biology. for example: molecular biology and inborn errors of metabolism; molecular biology and genetic engineering, possible implications, controversial aspects, the biochemistry of depression, experimental aspects, its effects on the physical, mental, social, and creative aspects of man; the molecular biology of cancer, its control, effects of environmental factors. Molecular biology and its use in the diagnosis of aberrations.

**ESGE3020 - Music and Technology in the 20th Century.**

*Three credits. Three hours of lecture and discussion per week.*

An introductory and interdisciplinary study of the technological development and its historical role in late 20th century musical creation. This course explores different ways in which electronic technology the appearance of instruments and electric equipment has affected formal and constitutive elements of music, particularly harmonic and melodic aspects. This is a study of how technology has catalyzed the most innovative musical processes of our times and how social, economics, and political elements have marked this art. This course will focus on the study of four main areas that have been the most affected by technological development electric guitar, electric base, keyboards, and the recording studio.

**ESGE3021 - Great Works of the Puerto Rican Culture.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122 OR HUMA 3101-3102 OR ITS EQUIVALENT.*

Interdisciplinary analysis of great works of the Puerto Rican culture based upon sociological, historical, and literary works.

**ESGE3022 - Great Works of the Puerto Rican Culture.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122 OR HUMA 3101-3102 OR ITS EQUIVALENT; ESGE 3021.*

Interdisciplinary analysis of great works of the Puerto Rican culture based upon sociological, historical, and literary works.

**ESGE3023 - Socio-salsa: Fundamental Principles of Caribbean Urban Musicology.**

*Three credits. Three hours of lecture and discussion per week.*

This interdisciplinary and introductory course is for the study of the musical category called salsa from an interdisciplinary view and special emphasis on the protagonists of today and yesterday. the purpose is to integrate scientific social research according to basic principles of musicological research with the purpose of developing transdisciplinary critical discourse. Important historical moments and fundamental contribution to the birth of salsa that may tend towards the analysis of contents of those songs about social struggle shall be presented. Interactive experiences with salsa's protagonists shall be utilized to elaborate a portfolio about social and musical experiences based on encounters with songwriters, composers, arrangers, instrument constructors, performers, and communicators.

**ESGE3025 - the Meaning of Being Human in Contemporary Thought.**

*Three credits. Three hours of lecture per week.*

The course will center around the concept of the human body and the different ways in which it is possible to conceive it. Analysis will be made of the physicalist theory whose materialistic interpretation envisions the human being interns of the reduction of the mental functions to the physiological functions. the phenomenological approach to the concept of the human body, as seen in the works of Maurice Merleau-Ponty and Gabriel marcel, will also be examined. Finally, a study will be made of the evolutionist view of the body originated in the paleontological studies of Pierre Teilhard de Chardin.

### **ESGE3030 - Origin and Development of Salsa.**

*Three credits. Three hours of lecture, discussion, workshop and investigation per week.*

An introductory and interdisciplinary study, in the area of general education, about musical forms and manifestations that constitute the category known as salsa departing from an ethnomusicological approach. Repertoire and its broader relation to culture and society are to be studied in order to understand music as a distinctly human activity, by means of readings, discussions, audiovisual resources, research and workshops among other instructional strategies. This shall be achieved through the study of characteristic genders of the category such as son, guaracha, Danzon, cha-cha-cha and mambo. (c) face-to-face, online and hybrid course. Effective January 2021.

### **ESGE3031 - Great Works: The Idea of the Woman in the Puerto Rican Novel.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR SPAN 3101-3102 OR ITS EQUIVALENT.*

A study of the woman's role in the Puerto Rican novel.

### **ESGE3032 - Great Works: The Idea of the Woman in the Puerto Rican Novel.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR SPAN 3101-3102 OR ITS EQUIVALENT; GEST 3031.*

A study of the woman's role in the Puerto Rican novel.

### **ESGE3035 - Introduction to the Health Sciences.**

*Three credits. Three hours of lecture per week.*

This course will provide the students, especially, the premedical student, with the opportunity to develop skills in the analysis, interpretation and application on the basic principles of the health science in terms of the individual as a bio-psychosocial entity in relationship to its environment. Emphasis will be given to current health problems and vital statistics in Puerto Rico. (c)

### **ESGE3037 - Danzon: Music and Dance Workshop.**

*One credits. Two hours of lectures, trials, functions and workshop per week Prerequisites: THE STUDENT SHOULD HAVE AN ADEQUATE CONTROL OF THE VOCAL TECHNIQUE, INSTRUMENTAL OR OF THE DANCE; TO MAKE AUDITION BEFORE THE PROFESSOR OR DIRECTOR.*

Music and dance workshop for those interested in joining and orchestra and dance troupe specialized in danzon. Instrumental vocal and dancing aspects will be emphasized. Historical topics, anatomical aspects of interest to performers and acoustical qualities of stages and instruments are themes to be integrated to rehearsals, illustrated lecture and concerts that are part of this workshop. Standard works are to be used and others shall be added to be repertoire during the development of the sequence. This course may be repeated seven times.

### **ESGE3038 - Writing in English Reflection and Reasing.**

*Three credits. Three hours of discussion per week Prerequisites: BASIC ENGLISH OR ITS EQUIVALENT*

Required course for the major component in the bachelor in general studies using the writing process

approach (wpa), this course takes a critical look at dominant discourses, those uses and practices of language that hold ideological leadership and powerfully influence our perception of reality. the purpose of this analysis is to unmask the relationship between language, cognition and social practice. It is an interdisciplinary course that integrates literature, linguistics, cognitive sciences and other disciplines in order to pursue discourse analysis. the wpa leads students to reflect upon writing as a process of refining thinking through conscious awareness of the social discourses underlying their language practices. This course will be offered face-to-face, hybrid and online modalities. Effective August 2022.

#### **ESGE3041 - Introduction to the Interdisciplinary Studies.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3201-3202 OR ITS EQUIVALENT OR A COURSE IN GREAT WORKS.*

Study of great works of the western thought and how this influence and shape the aesthetic, scientific and humanistic expressions of modern man.

#### **ESGE3042 - Introduction to the Interdisciplinary Studies.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3201-3202 OR ITS EQUIVALENT OR A COURSE IN GREAT WORKS.*

Study of great works of the western thought and how this influence and shape the aesthetic, scientific and humanistic expressions of modern man.

#### **ESGE3046 - Integrated Course in the Problems of Man in the Twentieth Century. the Post Technological Society.**

*Three credits. Three hours of lecture per week.*

The problem of man in the 20th century are studied along with his foresight for a post-technological society in the near future. the study is visualized from the viewpoint of the different fields in which the man of this century engages the natural sciences, the social sciences, philosophy ethics, art. the course is divided in cycles, each under the direction of a professor proficient in the subject matter of that cycle. There is a professor in charge of coordinating the course.

#### **ESGE3047 - Theories and Problems of the University in the Modern World.**

*Three credits. Three hours of lecture per week.*

This course is concerned with the study, analysis and comparison of the most important problems affecting the development of modern day university education in Europe, the U.S.A., Latin America and Puerto Rico. Consideration is given to the theme of the mission of the university which is examined through the reading and study of texts, essays, and key articles.

#### **ESGE3051 - Great Works of Education.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3201-3202 OR COURSE IN GREAT WORKS OR ITS EQUIVALENT.*

A study of the great works of education and their influence in the formation of the image of the western man. Inactive since August 2019.

#### **ESGE3052 - Great Works of Education.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3201-3202 OR COURSE IN GREAT WORKS OR ITS EQUIVALENT; GEST 3051.*

A study of the great works of education and their influence in the formation of the image of the western man. Inactive since August 2019.

#### **ESGE3055 - Local Planning in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

The main purpose is that the student can analyze the planning process in the local government of Puerto Rico.

**ESGE3061 - Great Juridical Works.**

*Three credits. Three hours of lecture per week Prerequisites: A COURSE IN GREAT WORKS OR ITS EQUIVALENT.*

Interdisciplinary analysis of great works of the study of the law analyzed from the philosophical, ethic, aesthetic and sociological perspectives.

**ESGE3062 - Great Juridical Works.**

*Three credits. Three hours of lecture per week Prerequisites: A COURSE IN GREAT WORKS OR ITS EQUIVALENT; GEST 3061.*

Interdisciplinary analysis of great works of the study of the law analyzed from the philosophical, ethic, aesthetic and sociological perspectives.

**ESGE3082 - Great Works of the Black in the Puerto Rican Literature.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3101-3102 OR ITS EQUIVALENT.*

The contribution of the Puerto Rican black (as object and subject) to our literature.

**ESGE3101 - Great Works of the Don Juan Myth.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Analysis of the development of Don Juan Myth in literature, music, and other aspects.

**ESGE3102 - Great Works of the Don Juan Myth.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR AND GEST 3191.*

Analysis of the development of Don Juan Myth in literature, music, and other aspects.

**ESGE3103 - Heavy Metal: its Origins and Development.**

*Three credits. Three hours of lecture per week.*

This course aims to comprehensively understand the multiple dimensions of music "heavy metal, emphasizing with its context and the evolution of that relationship. It also briefly considers the musical aesthetic dimensions of this genre, its blues-rock precursors, the British origins of this genre and its subsequent diversification (thrash, death, black, gothic, progressive). This course evaluates the participation of various social sectors in this music: also, its discourses concerning gender relations, ethnicity, and social class. It also examines the metal scene in Puerto Rico, its transformation, their bands, the aesthetic trends and their internal dynamics.

**ESGE3111 - Drama Workshop in English.**

*Three credits. Three to four hours of laboratory work per week Prerequisites: ENGL 3101-3102 OR 3221-3222 OR ITS EQUIVALENT.*

Students act, direct and produce short scenes and one or two act plays. the entire class with the teacher positively criticize each scene, etc.

**ESGE3112 - Drama Workshop in English.**

*Three credits. Three to four hours of laboratory work per week Prerequisites: ENGL 3101-3102 OR 3221-3222 OR ITS EQUIVALENT; GEST 3111.*

Students act, direct and produce short scenes and one or two act plays, the entire class with the teacher positively criticize each scene, etc.



**ESGE3121 - Great Works on Politics and Social Planning.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122.*

This course introduces the student to the great works dealing with the origin, and basic concepts of political science in its relation to social planning.

**ESGE3122 - Great Works on Politics and Social Planning.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122, GEST 3121.*

This course introduces the student to the great works dealing with the origin, evolution, and basic concepts of political science in its relation to social planning.

**ESGE3130 - Writing as A Reasoning Process.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3001-3002.*

Process of reasoning and of linguistic construction in the production of academic and professional writings; principles of written communication theory; theory and practice of planning, specification and development of thesis statements, coherent structuring, and the revision of expository written texts. (c) face-to-face, online and hybrid course. Effective January 2021.

**ESGE3131 - Puerto Rican Culture and Folklore.**

*Three credits. Three hours of lecture per week.*

Historical, critical, and analytical survey of the Puerto Rican cultural process and folkloristic phenomenon. Lectures, readings, trips, field research and interviewing of personalities related to this subject.

**ESGE3132 - Puerto Rican Culture and Folklore.**

*Three credits. Three hours of lecture per week Prerequisites: GEST 3131.*

Historical, critical, and analytical survey of the Puerto Rican cultural process and folkloristic phenomenon. Lectures, readings, trips, field research and interviewing of personalities related to this subject.

**ESGE3135 - Music, Culture and History of Africa.**

*Three credits. Three hours of lecture, discussion, workshop, and investigation*

An introductory and interdisciplinary study of the diverse African musical cultures in their particular social and historical contexts. the ethnomusicological approach shall be based on data and concepts that stem from other disciplines such as archaeology, mythology, linguistics, climatology, geography, and musicology. the continents musical map shall be analyzed after identifying different regions and their characteristic musical practices. Topics of traditional musics such as atsÍ, fontomfrom, and agahÛ, among others shall be examined as well as notraditional forms as highlife, juju and suku.

**ESGE3136 - Seminar of Caribbean Music: The Cuban Music.**

*Three credits. Three hours of seminar per week.*

Interdisciplinary and introductory seminar for the study of Cuban music since the 16th century until present time. This course`s principal topics are sacred music, popular and concert music, musical education and the relation between music and other disciplines. It also deals with a more precise concept of the historical process of Cuban music and how it has influenced general Caribbean culture.

**ESGE3137 - Origins and Development of Rock Music.**

*Three credits. An hour and a half of conference and an hour and half of discussion per week.*

The course will delve into the study of rock music from a historical perspective, examining its development as a sonic phenomenon and the political and social elements which have influened this development. This development is of an essentially syncretic nature, and thus, one of continuous breach of dams and frontiers,

and of creation of new and increasingly heterogeneous spaces. the course will focus on the post-world war-II United States and England, up to the present. Recordings will be listened to, assigned texts will be discussed and documentaries and concerts will be seen. the course is designed for all interested students.

**ESGE3138 - the New Song as Esthetic Proposition and Social Movement.**

*Three credits. Three hours of discussion per week.*

A transdisciplinary approach is used to examine the historical and aesthetic process of creation and dissemination of the "new song" or "nueva trova". Processes such as the Catalan nova Canco, Argentina and Chile's new song, "American protest song", the Cuban Nueva Trova and the Puerto Rican new song, among others, are examined. It emphasizes on the critical examination of the creative process of a new song aesthetics proposed by composers and performers as pi de la serra, Joan Manuel Serrat, Violeta Parra, Victor Jara, Mercedes Sosa, Atahualpa Yupanqui, Silvio Rodriguez and many others. the socio-historical contexts of these creative processes, soundscapes, genealogies, generated various debates and aesthetic influences in other areas of popular music are examined. Designed for students of all faculties and intended as a general education elective.

**ESGE3141 - Interdisciplinary Seminar on Women's Studies.**

*Three credits. Three hours of lecture per week.*

The condition of women has been drastically affected by changing historical circumstances, biological concepts and discoveries, and by transformations in socio-economic institutions as well as in cultural values. the course will analyze these changes in the condition of women, especially Puerto Rican women, and will attempt to understand the circumstances which have brought them about, as well as discover immediate consequences and possible long-range effects. the course will be developed through the study of original sources and through individual and group projects complemented by lectures.

**ESGE3142 - Interdisciplinary Seminar on Women's Studies.**

*Three credits. Three hours of lecture per week Prerequisites: GEST 3141.*

The condition of women has been drastically affected by changing historical circumstances, biological concepts and discoveries, and by transformations in socio-economic institutions as well as in cultural values. the course will analyze these changes in the condition of women, especially Puerto Rican women, and will attempt to understand the circumstances which have brought them about, as well as discover immediate consequences and possible long-range effects. the course will be developed through the study of original sources and through individual and group projects complemented by lectures.

**ESGE3145 - Music, Culture and History of Caribbean.**

*Three credits. Three hours of lecture, discussion, workshop and investigation per week.*

An introductory and interdisciplinary study of Caribbean musical cultures in their particular social and historical contexts departing from and ethnomusicological approach. the purpose is to study and discuss how and why Caribbean music has multiple European, African, Ameridian and Asian antecedents. A combined strategy of lectures, workshop and research on different topics of Caribbean music shall be used. Diverse subjects on autochthonous ethnic groups, inter racial, transculturation and intra-Caribbean migration, to be studied shall be presented and discussed. These repertoires are oral tradition, commercial and art music.

**ESGE3146 - Music Culture and History of Mexico.**

*Three credits. Three hours of seminar per week.*

This interdisciplinary and introductory course on the diverse Mexican regional traditions departs from an ethnomusicological basis. the different repertoires are to be describe and analyzed with the use of representative recordings of indigenous, mestizo, popular and art music. the convergences of music and other disciplines such as archeology, linguistics, history, and religion are to be studied without disdaining

other topics such as recording technology and the music market.

### **ESGE3161 - Problems in the Construction of Knowledge I.**

*3 credits. Three hours of discussion per week.*

This is a required course for the major in the Bachelor's degree in general studies. It introduces the students in the discussion of the foundations of scientific, social and humanistic thought, from a multi, inter and transdisciplinary logic. Through the reading and discussion of original works and interpretations, different aspects of the history of knowledge and science are tackled, from their origins in the Greek civilization up to the debates on rationalism and empiricism. As a methodological guide to the construction of knowledge, different epistemological aspects of the disciplines are also tackled. Possibility of equivalence with ESGE 4011

### **ESGE3162 - Problems in the Construction of Knowledge II.**

*3 credits. Three hours of discussion per week Prerequisites: ESGE3161*

This is a required course for the majors in the Bachelor's degree in general studies. It introduces the students in the discussion of the foundations of scientific, social and humanistic thought, from a multitier and transdisciplinary logic. Through the reading and discussion of original works and interpretations, different aspects of the history of knowledge and science are tackled, from the scientific revolution to the later 19th century, with special emphasis in the construction of the mechanistic paradigm, the theory of progress, the evolutionary theory, and the modern representation of reality. As a methodological guide to the construction of knowledge, different epistemological aspects of the disciplines are also tackled. Change in title since august 2016

### **ESGE3163 - Problems in the Construction of Knowledge III.**

*3 credits. Three hours of discussion per week Prerequisites: ESGE 3162 OR DIRECTORS PERMISSION.*

This is a required course for majors bachelor degree in general studies. from a multi, inter and transdisciplinary perspective, the course introduces students to the foundations of scientific thought and in some of its social and humanistic implications. Through the reading and discussion of original and interpretative sources, we focus on the history of knowledge and science, particularly on the xx century scientific revolution with emphasis in physical sciences, biology and epistemology of science. Different epistemological aspects of the disciplines are used as methodological guide for construction of knowledge.

### **ESGE3201 - Interdisciplinary Seminar: Socio-humanistic Themes in Engineering I.**

*Three credits. Three hours of seminar per week.*

This seminar is addressed to first year engineering students. It includes interdisciplinary reflection and discussion on socio-humanistic themes pertaining to engineering. An examination of relevant periods of science and technology, and its societal, humanistic and philosophical consequences is performed as well as the social challenges it implies. Students are exposed to actual situations faced by society and related to the accelerated scientific and technological development; ethical reflections about those situations are carried out. Themes brought by students are studied through a research component included. Original and peer-reviewed papers are examined. Due to its interdisciplinary nature, the seminar is offered as a team teaching experience.

### **ESGE3202 - Interdisciplinary Seminar: Socio-humanistic Themes Engineering II.**

*Three credits. Three hours of seminar per week Prerequisites: ADMISSION TO THE ARTICULATE TRANSFER ENGINEER PROGRAM OF UPR-RP OR AUTHORIZATION OF THE PROGRAM COORDINATOR.*

This seminar is addressed to first year engineering students. It includes interdisciplinary reflection and discussion on the following themes: telecommunications, social impact of scientific and technological development, genetics in engineering controversies, Intellectual property and its protection, among others all themes are examined through an ethical point of view, and an interdisciplinary approach. A research

component is included, emphasizing in the research design, selection of research design according to problem nature, data organization and analysis, bibliographic citation, and the presentation of research findings. Original and peer-reviewed papers are examined. Due to its interdisciplinary nature, the seminar is offered as a team teaching experience.

### **ESGE3215 - Research Ethics.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion*

This course will address the ethical and moral implications that the scientific research with human beings and animals involved before, during and after they are carried out. Reflection will be on research in the natural sciences, the social sciences and the humanities. This is an elective course that is addressed to all campus students regardless of their specialization.

### **ESGE3216 - Bioethics and Human Rights.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion.*

This course will address the relationship between bioethics and human rights from a multi, trans and interdisciplinary perspective with emphasis in the humanities, the social sciences and the natural sciences. There is evidence that bioethics, as the "ethics of life, is a fundamental issue for human rights since they both uphold the values of dignity and justice, among others. the basis of the course will be the universal declaration on bioethics and human rights and the didactic recommendations of the UNESCO. This is an elective course that is aimed to all students on campus regardless of their specialization.

### **ESGE3297 - Women of Color Writers in English.**

*Three credits. Three hours of discussion per week Prerequisites: ONE YEAR OF ENGLISH*

This course is an option for completing the literature requirement of the general education component. the course will focus on women of color, such as but not limited to African American, Native American Asian American and Latina/ Chicana, writers and how they express themselves in a variety of texts. It explores questions of identity formation and/or disintegration and how they are rooted in issues of race, gender, social status, history, community, economic, and generational conflict. Critical reading in different genres demonstrates where these women of color writers fit into the canon of work written in the English language and to see how their texts have an interdisciplinary, transcultural and multicultural focus. the course will also assess the significance and role of the writings as part of women's literature, feminist literary theory and critical race theory. Information literacy competences are an essential component of this course.

### **ESGE3305 - Use of Technology in Research.**

*Three credits. Three hours of discussion and two of laboratory per week.*

This is a required course for the majors in the bachelor degree in general studies. It provides tools and applications for data, texts and images search and manipulation. the students will have experiences in the use of new technologies and internet for academic research. Also, useful research experiences in the humanities, natural and social sciences will be conducted, through the use of proper technological resources. the course will provide the epistemological foundations and practical laboratories needed for student's literacy in the use of technology, as a fundamental tool for their research works.

### **ESGE3333 - Introduction to Artifact Conservation.**

*Three credits. Three hours of lecture per week.*

Introductory and mandatory course for aspiring students for the minor concentration in conservation of tangible heritage. It begins with a historical tour on conservation and restoration, legal and ethical aspects both local and international, and then addresses the agents of deterioration and how to control them. What is and how a conservation project is formed is studied, from the registration of the piece, and its handling, to the techniques of analysis of the state of conservation and documentation. the intervention process is

broken down considering practical aspects, materials and instruments, the requirements of the owner, the maintenance plan and the presentation of the piece. In addition, the student will know the contribution of the different areas of knowledge to the study of heritage conservation. The dialogic method is favored through the study of real cases for the conservation of artistic works. It is offered in face-to-face or hybrid modalities. New

**ESGE3995 - Study Trip.**

*One to Six credits. Prerequisites: TO HAVE APPROVED THE FIRST YEAR IN GENERAL EDUCATION, ESPECIALLY HUMA 3101-3102 OR ITS EQUIVALENT, ENGL 3031-3032 OR ITS EQUIVALENT AND SOSOC 3121-3122.*

Study of the history, development of the nationality, culture, the political and economic systems, the artistic and religious development of various countries of the world. It includes various preparatory academic sessions and the visit to various countries.

**ESGE4001 - Great Works of Philosophy.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR ITS EQUIVALENT.*

Analysis of great western philosophical works and their development in modern thought.

**ESGE4002 - Great Works of Philosophy.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR ITS EQUIVALENT; GEST 4001.*

Analysis of great western philosophical works and their development in modern thought.

**ESGE4005 - Independent Study.**

*Three credits. Lecture by agreement of the student and professor Prerequisites: FOR THIRD YEAR STUDENTS.*

Independent work done by the student under the supervision of a professor specialized in the academic area of the student's concern.

**ESGE4006 - Independent Study.**

*Three credits. Lecture by agreement of the student and professor Prerequisites: FOR THIRD YEAR STUDENTS.*

Independent work done by the student under the supervision of a professor specialized in the academic area of the student's concern.

**ESGE4007 - Interdisciplinary Course in Linguistics.**

*Three credits. Three hours of lecture per week Prerequisites: ONE COURSE OF GREAT WORKS.*

Interdisciplinary analysis of linguistics. Emphasis on the new contributions in linguistics and its relation to the new philosophy, the philosophy science and the socio and psycholinguistics.

**ESGE4015 - Philosophical and Religious Experience: Contrasts and Similarities.**

*Three credits. Three hours of lecture per week.*

A comparative study of the main features of the philosophical, and the religious experience. Emphasis will be placed on their varied forms of relationship.

**ESGE4021 - Great Works of Western Art.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR ITS EQUIVALENT.*

Social history of art; this course will analyze the great works of the western art within its socio-historical and philosophical context. Also, it will study the aesthetic foundation of our art.

**ESGE4022 - Great Works of Western Art.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR ITS EQUIVALENT; GEST*

4021.

Social history of art; this course will analyze the great works of the western art within its socio-historical and philosophical context. It will also study the aesthetic foundation of our art.

**ESGE4031 - Great Works Literary-philosophical.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR HUMA 3201-3202 OR ITS EQUIVALENT.*

Study of the existential, philosophical, psychological and sociological meaning of the literary works. Also deals with the historical foundation and its relationship with modern ideas.

**ESGE4032 - Great Works Literary-philosophical.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR HUMA 3201-3202 OR ITS EQUIVALENT; GEST 4031.*

Study of the existential, philosophical, psychological and sociological meaning of the literary works. Also deals with the historical foundation and its relationship with modern ideas.

**ESGE4040 - Interdisciplinary Seminar of Political Economy of Corruption and Human Rights.**

*Three credits. Three hours of seminar per week Prerequisites: CISO 3121 AND CISO 3122.*

The seminar aims to promote the analysis and understanding of the phenomenon of corruption and to analyze its different definitions from a historical, theoretical, and empirical perspective. Particular attention will be pay to the ways of how corruption impacts human rights globally and in Puerto Rico. Approaches will be made mainly from the political economy but recognizing that corruption is a multidimensional and complex phenomenon that must be addressed in interdisciplinary ways. the various forms of corruption will be considered, especially those that have the greatest impact on democratic systems, such as corporate financing of election campaigns, for example. the course may include extramural participation component, such as: field visits, community service, and participatory research. This course can be offered in classroom, online or hybrid formats.

**ESGE4042 - Great Works of Religious Thought.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102 OR ITS EQUIVALENT; GEST 4041.*

Important aspects of religious thought will be studied through the discussion of major works in this field. Topics: 1) the religion phenomenon, 2) God, 3) the problem of evil.

**ESGE4045 - the Development of Critical Thinking Skills as An Objective of General Education.**

*Three credits. Three hours of lecture per week.*

Study of critical thinking theories and models. the theoretical study is combined with exercises to develop critical thinking skills and attitudes.

**ESGE4052 - Literary Creation Workshop: Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: TO HAVE APPROVED A BASIC COURSE IN SPANISH; GEST 4051.*

Evaluation of individual students' poems by the group under the guidance of the instructor for the purpose of arriving at a clear view of the key element that make up a good poem.

**ESGE4061 - Great Works of Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3101-3102.*

Analysis of poetry in its humanistic and technical dimension and as method of knowledge. the course will analyze the scientific, sociological and psychic dimensions of poetry.

**ESGE4062 - Great Works of Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3101-3102; GEST 4061*

Analysis of poetry in its humanistic and technical dimension and as method of knowledge. the course will analyze the scientific, sociological and psychic dimensions of poetry.

**ESGE4071 - Great Works of Ethics and Law.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122.*

Analysis of the great conflicts between ethics and law as seen on historical facts.

**ESGE4072 - Great Works of Ethics and Law.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122; GEST 4072*

Analysis of the great conflicts between ethics and law as seen on historical facts. (c)

**ESGE4075 - Ethical and Humanistic Issues in Medical Science and Professions.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102; SOSC 3021-3022.*

A study of ethical and humanistic issues in medical sciences and biomedical professions. Health and illness will be examined from a humanistic and social perspective to establish the ethical basis that should guide medical professionals, biomedical investigators and health services centers. Medical and philosophical literature will be analyzed as well as films and documentaries relevant to the problems. Real cases will be discussed.

**ESGE4077 - Human Rights in the Contemporary World.**

*Three credits. Three hours of lecture, discussion and debates.*

Study of the historical origins of human rights, their development, and the importance and pertinence which they have acquired in the modern world, especially as they impinge upon the great controversial issues of our time. Face-to-face, hybrid and online course

**ESGE4091 - Great Works of the Deep Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122 AND PSYC 3005.*

This course will analyze the great works of the deep psychology, relating those at the same time with the cultural mileau.

**ESGE4092 - Great Works of the Deep Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122 AND PSYC 3005; GEST 4091.*

This course will analyze the great works of the deep psychology, relating those at the same time with the cultural mileau.

**ESGE4101 - Research Methods and Techniques.**

*3 credits. Three hours of lecture per week.*

Required course for the concentration component of the bachelor's program in general studies (pbeg). the course addresses aspects of the methods and techniques used in qualitative and quantitative research and the paradigms that support them. Situations or problems are analyzed to apply and integrate the knowledge acquired in other courses of the pbeg concentration and to discuss the fundamentals of the research process. the participants will develop competences that allow them to be involved in research processes, in the context of the preparation of dissertations, thesis or other similar experiences.

**ESGE4102 - Thesis.**

*Three credits. Prerequisites: GEST 4101 OR 4111.*

Research will be done in some specific field of human endeavor under the guidance of a counselor. A mini thesis will be written in Spanish unless the mini-thesis committee grants permission to write it in another language.

**ESGE4105 - the Use of Legal and Juridical Sources in Research.**

*Three credits. Two hours of lecture and one of laboratory work per week.*

The knowledge of the sources of the law needed to do a legal, research and its importance. The course's content will emphasize the legal methods and the skills of the researchers.

**ESGE4112 - Interdisciplinary Course in Research.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR; GEST 4111.*

Introduction to the general aspects of research from an interdisciplinary perspective. This course will synthesize and integrate diverse aspects of disciplines related with research, quantitative analysis, procedures of research, formulation of problems and documentation.

**ESGE4121 - Epistemological Foundations of the Humanities I.**

*Three credits. Three hours of discussion per week.*

This course is a requirement for students in third or fourth year of the bachelor's degree in general studies. It will provoke the discussion and reflection on important epistemological problems in the field of the humanities throughout the history of the disciplines: perception, memory, a priori knowledge, and testimony. We will examine notions such as knowledge, belief, justification, truth, ways of knowing, evidence, reality, representation, rigor, and skepticism.

**ESGE4122 - Epistemological Foundation of the Humanities II.**

*Three credits. Three hours of discussion per week Prerequisites: ESGE 4121.*

This course is a requirement for students in third of fourth year of the bachelor's degree in general studies. It will provoke the discussion and reflection on important epistemological problems in the field of the humanities throughout the history of the disciplines: nature and scope of the knowledge, skepticism, inference, and induction. We will examine notions such as types of knowledge, belief, justification, truth, certainty, doubt, causality, Intuition, mimesis, method, probability, review, and fallibility.

**ESGE4125 - Great Works in the Economic Thought.**

*Three credits. Three hours of lecture per week Prerequisites: SOSC 3121-3122.*

This course will analyze the great works of the economic thought in 19th and 20th centuries.

**ESGE4141 - Puerto Rican Thought and National Reality I.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week.*

Study of how the Puerto Rican writers belonging to different generations have approached and interpreted the various stages in the development of the Puerto Rican nationality, particularly, the main characteristics, of its people. (c) this course will be offered face-to-face, hybrid and online modalities, effective august 2022.

**ESGE4142 - Puerto Rican Thought and National Reality II.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

This course examines how multigenerational historians, writers and plastic artists have approached and interpreted the stages of Puerto Rican national development, specially during the twentieth and twenty-first centuries. They comprise a rich European, African and American heritage that, in turn, has managed to create its own culture, which identifies Puerto Ricans, this course will be offered in one of the following modalities. Face-to-face, hybrid and online modalities.



**ESGE4145 - Popular Culture and Mass Communication.**

*Three credits. Three hours of lecture per week.*

Introductory course which studies different manifestations of popular culture and its close relationship with mass media and cultural industry. Different theories will be examined, and some examples of Puerto Rican and international popular culture will be analyzed. Inactive since August 2019.

**ESGE4152 - Women's Writing in Puerto Rican and World Literature.**

*Three credits. One hour of lecture, one hour of discussion, and one hour of independent study per week.*

Women's writing from different epochs and genres will be studied. Puerto Rican texts will be awarded special attention but pertinent works from other nationalities will also be studied. Texts will be studied from the various perspectives of feminist literary criticism.

**ESGE4161 - Epistemological Foundations of Social Sciences I.**

*Three credits. Three hours of discussion per week.*

This course is a requirement for the bachelor's degree in general studies juniors and seniors. Epistemological foundation of the social scientific thought are discussed, from a multi inter and transdisciplinary logic. Through reading and discussion of original works and subsequent interpretations, we discussed important aspects in the theory of knowledge in social sciences, focusing on its modern development since the late nineteenth century and during the first half of the twentieth century.

**ESGE4162 - Epistemological Foundations of Social Sciences II.**

*Three credits. Three hours of discussion per week Prerequisites: ESGE 4161.*

This course is a requirement for the bachelor's degree in general studies juniors and seniors. Epistemological foundations of the social scientific thought are discussed, and its interaction with other epistemological views. from a multi, inter and transdisciplinary logic. Through reading and discussion of original works and subsequent interpretations, we discussed important aspects on the foundation and theory of knowledge in social sciences, focusing on its modern development in the second half of the twenty century and early twenty-first century. This course will be offered face-to-face, hybrid and online modalities, effective August 2022.

**ESGE4185 - Epistemological Foundations of the Biological Sciences.**

*Three credits. Three hours of discussion per week.*

This course is a requirement for bachelor's degree in general studies juniors and seniors. the course discusses the foundations and historical evolution of biological theories and ideas, and its relationship with other disciplines. Across the analysis of the principal currents of biological thought, the mechanistic/proximal cartesian explanation and the historical Darwinian one. the course allows students to identify the singularity of the biology and to characterize the ontological, epistemologically and methodological response that proposes this discipline for the explanation of biological phenomena. This course will be offered face-to-face, hybrid and online modalities. Effective August 2022.

**ESGE4186 - Epistemological Foundations of the Physical Sciences.**

*Three credits. Three hours of discussion per week.*

The ontological, methodological and epistemological aspects of the know- ledge of physical sciences are discussed while focusing on the second half of the 19th century and the first half of the 20th century. Through problem solving and the use of different didactical resource, students learn and apply fundamental epistemological concepts and will develop skills in critical thin- king, creation, research and dissemination of knowledge at higher educational level. This course stimulates group learning. It is a requirement for students in third year or higher in the general studies bachelor's program. Students from other programs can enroll.

**ESGE4216 - Politics, Race and Anthropology.**

*Three credits. Three hours of lecture per week Prerequisites: CISO3121-3122.*

Relations between politics, race and anthropology will be studied from an interdisciplinary perspective. Using digital and archival resources, it will examine the racial politics under the German occupation of France (1939-1945) and the anthropological contributions which played a central role in the over-coming of racial Scientificism. Furthermore, it will examine the consequences of the holocaust for the development of racial debates during this time and the - politics that emerged as a consequence of these debates. This course is intended for third year students and beyond.

**ESGE4305 - Interdisciplinary Integration of Knowledge Seminar.**

*Three credits. Three hours of seminar per week Prerequisites: ESGE 3161-3162-3163, ESGE 4161-4162, ESGE 4121-4122, ESGE 4185-4186*

This seminar is a required capstone course for the fourth-year students in the general studies bachelor's program. It is based on the integration of knowledge from a disciplinary to a transdisciplinary method. The main purpose of the general education is the integration of knowledge, and the multidisciplinary method is considered a limitation, since it implies the sum of the disciplines but not the integration with the various areas of knowledge.

**ESGE4306 - the Puerto Rican Experience in the United States.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: SOSC 3121-3122.*

Interdisciplinary analysis of the social, economic, political and cultural evolution of the Puerto Rican community in the United States from the late nineteenth century to the present.

**ESGE4307 - Film and Human Rights.**

*Three credits. Three hours of seminar per week.*

This seminar functions will examine the theme of human rights and cinematic discourse and its diverse genres and categories. The relationship between film and human rights will be explored from an interdisciplinary perspective in dialog with other cultural manifestations such as plastic arts, literature history and philosophy among others. The discussion will bring together the study of other cultural products such as photography, news, newspaper reporting, cartoons and animation, including audiovisual sources on the internet. Several related articles from the declaration of human rights will be selected by the professor to be studied in the seminar. This course will be offered in English and Spanish face to face hybrid and online course

**ESGE4444 - Final Project in Conservation.**

*One to Four credits. Prerequisites: ESGE 3333.*

Interdisciplinary course, which can be taken more than once, up to a maximum of 4 credits, depending on the complexity of the project, and is taken once per level of progress (possible levels 1 to 4). Compulsory course for students of the minor concentration in conservation of cultural heritage. The student is guided in the definition and execution of this conservation project, which includes the practice of the intervention in the object and culminates with the written report of the intervention in an artistic or archaeological piece of cultural interest. The student is offered some possibilities of where to go to carry out the intervention work. Under the guidance of a conservator. The choice of the subject, type of artifact to be treated and the conservator-tutor will be up to the student, once he receives recommendations from the professor or the coordinator of the minor concentration in conservation of cultural heritage. It is offered in face-to-face or hybrid mode. New description began August 2021.

**ESGE4990 - Equity, Racism, and Mental Health.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

This course addresses the theoretical debate of individual, interpersonal, and institutional racism from a

psychosocial and interdisciplinary approach with the aim of examining the contribution of social sciences in the analysis of equity, racism and mental health. Examines and offers skills focusing on the following topics: a) impact of racial identity on mental health, b) models of equity and afro-healing, c) diversity and inclusion in psychology, d) every-day racism, colorism, microaggressions, and self-stigma, e) decolonizing conceptualizations of psychological phenomena and intersections of race, gender, and social class, f) intergenerational trauma in various racialized communities, and g) the needs and experiences of migrant communities. Students will write and present an original research work on some psychosocial aspect from an anti-racist perspective of mental health. This course will be offered face-to-face.

#### **ESGE4995 - Interdisciplinary Seminar.**

*One to Three credits. from one to three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

A flexible interdisciplinary seminar which may vary in its contents and in the number of credits depending on the theme that the professor will teach, its contents and the time he has to develop it. (c)

#### **ESGE5995 - Interdisciplinary Seminar: Comparative and Emergent Themes.**

*One to Six credits. One two six hours of seminar per week Prerequisites: AUTHORIZATION OF THE DIRECTOR OF THE B.A. PROGRAM IN GENERAL STUDIES AFTER THE EVALUATION OF THE STUDENT RECORD. GRADUATE STUDENTS NEED PERMISSION OF THEIR DIRECTOR IF THE COURSE IS AN ELECTIVE COURSE.*

This seminar analyzes topics that emerge as significant areas of contemporary debate and generate an analysis of the production of knowledge. Also, the seminar analyzes themes that have acquired particular relevance at present and have considerable impact on the contemporary world. The course emphasizes interdisciplinary themes and problems that lie at the boundary between main areas of knowledge, as well as methodologies for comparative analysis. During the seminar all students and facilitators will make presentations based on preselected topics. Participants contribute to identifying and developing themes and relevant methodologies to enrich pedagogy and investigation.

#### **ESPA3001 - Intermediate Basic Spanish.**

*Three credits. Three hours of lecture per week.*

This course is designed to help the student enrich and improve his knowledge of the Spanish language. Chosen selections of literary works of the best Spanish, Latin American and Puerto Rican authors are studied in detail. The student will learn the essential elements of the various literary genres, as well as their differences. (c)

#### **ESPA3003 - Foundations of Language and Discourse.**

*3 credits. Three hours of lecture, and three hours of workshop per week.*

The theoretical and applied study of the vernacular is essential for the integral development of knowledge. Designed in the context of a general studies program, it serves three purposes: the discipline's specificity, an interdisciplinary projection and a cognitive experience. During the first semester, it focuses language as a subject of study. The study of the linguistic levels (phonological, morphosyntactic and lexico-semantic), within the framework of Hispanic language and culture, increases the student's awareness of the importance to rethink discourse from the formal register. The semester closes with samples of essays that promote reflection and stimulate the production of oral and written texts that will confront them with their own linguistic process. This is the first-year course, with workshop, for students with a score of 504 or less in their entrance exam, and may be taught face to face, hybrid and distance modalities.

#### **ESPA3004 - Foundations of Language and Discourse.**

*3 credits. Three hours of lecture and three hours of workshop per week Prerequisites: ESPA 3003.*

The theoretical and applied study of the vernacular is essential for the integral development of knowledge.

Designed in the context of a general studies program, it serves three purposes: the discipline's specificity, an interdisciplinary projection and a cognitive experience. This semester focuses on language as developer of knowledge. The study of diverse discourses (narrative, descriptive, expository and argumentative) is undertaken through the reading and analysis of literary and non-literary texts, such as movies, photography, visual art. All texts are Spanish, preferably contemporary. Texts are viewed as discourses, without focusing on the normative construction of genre. This is the first-year course, with workshop, for students with a score 504 or less in their entrance exam, and may be taught face-to-face, hybrid and distance modalities.

### **ESPA3017 - Black Women in Puerto Rico Literature.**

*Three credits. Three hours of discussion per week.*

This course is an option to comply with the literature requisite of the general studies component. Fundamental literary texts about black women in the Puerto Rican cultural discourse are analyzed. It also examines the image of black and mulatto women in both canonic and non-canonic texts. The course embarks in a reflection on the role that black women have played in Puerto Rican literature from a perspective of gender, race and class. A multi and interdisciplinary methodology will be used for prose and poetry text analysis from a historic and sociological perspective.

### **ESPA3018 - War in Literature.**

*Three credits. Three hours of discussion per week.*

This course is an option for the literature requirement of the general education component. It addresses the theme of war from contemporary and interdisciplinary literary perspectives. Although it analyzes classical texts concerning military conflicts (such as the Peloponnesian war), the course focuses on contemporary texts which address the relationship between important conflicts in the twentieth century and their representation in literature. It also analyzes photography/pictographic texts which have influenced how people imagine these conflicts and to which many of these literary texts refer. Finally, the course treats themes related to body politics during armed conflict and its representation in literature (torture, rape, execution and kidnapping).

### **ESPA3019 - Puerto Rican Literature and Cultural Nationalism.**

*Three credits. Three hours of discussion per week.*

This course fulfills the literature requirement of the general education component. The course explores the assembling of Puerto Rican cultural nationalism's discourse and imaginary during the 1950's, the period in which key institutions and foundational discourses of the *estado libre asociado* ("common-wealth") of Puerto Rico were created and developed. The emphasis is the didactic literature produced by the community education division, the project which inaugurated (1949) the *munocista* state's cultural policy as well as the literary production of the generation of 1950. The course examines a diverse corpus, which includes examples of the division's cultural production (film, photography and posters), as well as contemporary views which help understand cultural nationalism's complexity and devices, and its impact on Puerto Rico today.

### **ESPA3035 - Literature and the City: San Juan and New York.**

*Three credits. Three hours of lecture per week.*

This course is an option to fulfill the literature requirement of the general education component. The structure of the course consists of two main units: "the modern city: San Juan, Puerto Rico" and "the multicultural city: New York". These units are preceded by a theoretical unit in which students will reflect upon the city from an interdisciplinary perspective: socio-anthropological, historical and literary perspective. The course relies on the fields of literary and cultural studies in order to examine the relationship between literature and the city. Its texts come mainly from Latin American and Puerto Rican literature from the second half of the twentieth century. For each of the units, themes and authors are suggested that consider

the theoretical as well as the practical aspects of the study of the city. Each unit of the course is accompanied by an extra-curricular activity that adds to the integral experience of the student in the city.

### **ESPA3036 - Fiction and History:20th Century Hispanic American Novel.**

*Three credits. Three hours of discussion per week.*

This course is an option to fulfill the literature requirement of the general education component. This course centers its attention in the study of Hispanic American narrative from the point of view of contemporary literary and historiography criticism in order to examine the relationship between literature and history, the ambiguous relationship between history and fiction and therefore, between literary and historic narrative constitute the main focus of reflection of the course. the structure of the course corresponds to the units that examine genres of the historical novel, history and the points of contact between narrative and historiography.

### **ESPA3037 - the Spanish Civil War in Literature.**

*Three credits. Three hours of discussion per week.*

The course was designed as an option to fulfill the literature requirement of the general education component. It covers a repertoire of literary texts inspired by the Spanish civil war, which includes not only diverse genres (short stories, poetry, novel, drama, chronicles and the essay), but a wide variety of narrators (intellectuals, poets, artists, politicians and the military) as well. to achieve the objective of exploring the complexity of historic events and its consequences on the national and international contexts, literary representations about the civil war written by Spanish authors. North and South Americans, and other Europeans, will be studied. Likewise, texts will be analyzed from an interdisciplinary perspective in relation to other artistic expressions, such as film, such as film, photography, posters, painting and the documentary.

### **ESPA3101 - Basic Spanish I.**

*Three credits. Three hours of lecture per week.*

This course is designed for the student who in the college entrance examination shows that his knowledge of the Spanish language is rather scanty and limited. It consists of lectures,"explication des textes" interpretative analysis of literary works, as well as the application of fundamental linguistic principles that will help develop better use of functional Spanish. Face-to-face, hybrid and online course. Effective January 2021.

### **ESPA3111 - Honor Course in Spanish.**

*Three credits. Three hours of lecture per week.*

This course is offered to the student who shows excellence in his linguistic and literary skills. It follows the same general plan of the basic course in a more intensive and thorough application. the student will learn research techniques and will write term papers as requirements of the course. (c)

### **ESPA3112 - Honor Course in Spanish.**

*Three credits. Three hours of lecture per week.*

This course is offered to the student who shows excellence in his linguistic and literary skills. It follows the same general plan of the basic course in a more intensive and thorough application. the student will learn research techniques and will write term papers as requirements of the course. (c)

### **ESPA3136 - Literature and Religion: The Religious Myth.**

*Three credits. Three hours of discussion per week.*

This course is an option to fulfill the literature requirement of the general education component. the study of literature is undertaken from an interdisciplinary approach (religion, literature, and society). the course explores both the subject of religion in literature and the literary nature of scripture. Cesar Vallejo, Jose

Marti, Pablo Neruda, Miguel de Unamuno, Marcio Veloz Maggiolo, Juan Bosch, Jose Saramago, Octavio Paz, Abelardo Diaz Alfaro, Gabriel Garcia Marquez, among others will be approached from the religious myth as well as the demystification through the literary scope of religious literature in the Coran, the bible and the tanaj. Text analysis will be approached from various literary theories that pose correspondence between literary and religious theological texts (Octavio Paz, Marshall Berman, Stephan Lupasco).

### **ESPA3217 - Dominican Literature:emigrant's Imaginaries.**

*Three credits. Three hours of discussion per week.*

This course can be used to fulfill the general education requirement in literature. in the course students will study how the imaginary of Dominican immigrants to Puerto Rico is constructed. Students will examine the theoretical literature on the collective imaginary as well as how this mental construct formulates and ingrains beliefs and "myths" as they relate to and are confronted by the immigrant community under study. the representation of Dominican immigrants in narrative fiction, journalism and cinematography will be examined using literary as well as extra literary devices and concepts. the cultural con- context will also be used to understand how the imaginary is constructed and supported in the discourses of immigration. A look at other emergent imaginaries of resistance/acquiescence will complement the textual analyses. the approach is interdisciplinary, It integrates literary sociological, political and cultural analyses in textual interpretation.

### **ESPA3225 - Drugs Representations in Literature.**

*Three credits. Three hours discussion per week.*

Study of the ways in which drugs and addiction has been represented in literature. the course covers a repertoire of literary texts, mainly Hispano American, which includes diverse genres (short stories, poetry, novel and essays). the literary texts will be analyzed from an interdisciplinary perspective in relation to other artistic expressions and discourses, such as film, sociology and philosophy. This course was designed as an option to fulfill the literature requirement of the general education component.

### **ESPA3306 - Literature and the City: "genres", "cultures", and "spaces".**

*Three credits. Three hours of lecture per week.*

This course is an option to fulfill the literature requirement of the education component. its structure corresponds to the main units which examine the "genres", "culture", and "spaces" that have characterized the literature written about the city from the second half of the twentieth century. It relies on the field of literary and cultural studies in order to examine the relationship between the literature and the city. its texts come, mainly from Latin American and Puerto Rican literature of the second half of the twentieth century. Each unit is accompanied by extra-curricular activities that enrich the integral experience of the student in the city.

### **ESPA3380 - Literature and Writings from the Peripheries.**

*Three credits. Three hours of lecture per week Prerequisites: ANY OF THE FIRST YEARS SPANISH LEVELS (SIX* Course to fulfil the requirement of literature in the general studies component. If focuses in the reading of literary and non-literary texts since the 20th century, to culminate in the student's personal writings. Reading will guide comprehension towards developing personal texts. Based upon the paradigm of intersectionality, texts whose themes focus on the individual and on society will promote a creative response for the "other's" voice and its personal experiences with diversity and questioning of canonical discourse. Reading and writing are visualized as self-knowledge and self-regulation processes where the sociocultural and the personal merge, as proposed by the student personal narrative (spn). This course may be offered face to face hybrid and distance course.

### **ESPA3511 - Puerto Rican Culture: Contemporary Debates.**

*Three credits. Three hours of discussion per week Prerequisites: IT IS REQUIRED TO HAVE PASSED SIX*  
Addresses the literature of the contemporary cultural debates in Puerto Rico from the 1990's to the present, both in our island as in diaspora, from the perspective of cultural studies and feminisms (decolonial, intersectional and transfeminism). The course works with the tapestry of institutional, intellectual, artistic and popular discourses around the canonical construction of "lo puertorriqueño", emerging from profound debates of the times (postmodernism, neonationalism, diaspora, feminism, gender, globalization (transnational\ trans-Caribbean), race, inequality, critique of independence and nationalism, multiplicity of identities, hybridity, paternalism) up to today's new approaches and more productive proposals (intersectional perspectives, queerness, maternity and masculinities, disaster capitalism and climate change). This course will be offered presential. New descriptions February 2021.

### **ESPA3513 - Puerto Rican Literature and Diverse Cultural Expressions in the United States.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PASS ANY OFF THE FIRST-YEAR SPANISH LEVELS. ESPA 3003-3004, ESPA 3101-3102, ESPA 3111-3112.*

This course will discuss a literary corpus produced in New York from an interdisciplinary perspectives around two main points: the beginnings of 20th century and the '60's and '70's. Also, it will review the literary and Puerto Rican cultural productions in and outside the city. This course first addresses a historical background to contextualize Puerto Rican migration to the us at the beginning of 20th century to focus on the relationship between the concepts of migration and national discourse. It, then, examines a periodization of the Puerto Rican literature in the us and discusses foundational texts, followed by a selection of the Nuyorican esthetics and a corpus that works as a link to later cultural expressions. Finally, the course will consider different cultural manifestations from the '80's to the present time. This in person course satisfies the literature requirement for the general studies component.

### **ESPA3535 - Literary Debates: Variable Topics Seminar.**

*Three credits. Three hours of discussion per week Prerequisites: IT IS REQUIRED HAVE APPROVED THE FIRST YEAR SIX*

This seminar is conceived as a space for the presentation and discussion of topics that are currently investigated in the literary studies, with an interdisciplinary approach. It offers the opportunity to share research that the academic community is developing or has developed for the preparations, conferences or doctoral dissertations. All courses prepared for this seminar will qualify as the literature requirement of the b. A. Degree. This course will be offered presential.

### **ESSI3001 - Spanish as A Second Language Conversation I.**

*Two credits. Two hours of discussion test Prerequisites: ADVANCED PLACEMENT TEST.*

Course designed for inim's programs participants with little or no knowledge of the Spanish language. This course complements the regular basic courses. It focuses on the development of speaking and listening comprehension skills; emphasis is given to the use of idioms, the acquisition of vocabulary and pronunciation.

### **ESSI3002 - Spanish as a Second Language, conversation 2.**

*Two credits. Two hours of discussion per week Prerequisites: ESSI 3001 OR ADVANCED PLACEMENT TEST.*

Course designed for inim's programs participants with a basic knowledge of the Spanish language. This course complements the regular intermediate courses. It focuses on the expansion of the speaking and listening comprehension skills; emphasis is given to the use of idioms, the acquisition of specialized vocabulary and the development of fluency.

### **ESSI3121 - Spanish as a Second Language: Elementary I.**

*Three credits. Three hours of discussion per week Prerequisites: ADVANCED PLACEMENT TEST.*

Intensive course designed for inim's programs participants who are native speakers of other languages who have little or no knowledge of the Spanish language, enclosed within the context of the Puerto Rican society and culture, this course focuses on spoken and written language used in everyday situations

**ESSI3122 - Spanish as a Second Language: Elementary 2.**

*Three credits. Three hours of discussion per week Prerequisites: LEES 3121 OR ADVANCED PLACEMENT TEST.* Second part of the basic level. Intensive course designed for inim's programs participants who are speakers of other languages with little knowledge of the Spanish language. Enclosed within the context of the Puerto Rican society and culture, this course focuses on the development of the ability to communicate with a greater emphasis on the listening and reading comprehension of simple texts.

**ESSI3123 - Spanish as a Second Language: Intermediate I.**

*Three credits. Three hours of discussion per week Prerequisites: LEES 3122 OR ADVANCED PLACEMENT TEST.* Intensive course designed for inim's programs participants who are native speakers of other languages who have a basic knowledge of the Spanish language. Enclosed within the context of the Puerto Rican society and culture, this course focuses on speaking and writing skills as well as listening and reading skills of texts about different topics. (c)

**ESSI3124 - Spanish as a Second Language: intermediate Level 2.**

*Three credits. Three hours of discussion per week Prerequisites: ESSI 3123 OR ADVANCED PLACEMENT TEST.* Second part of intermediate level, intensive course who have a low- intermediate knowledge of the Spanish language. Enclosed within the context of the Puerto Rican society and culture, this course focuses on the more complex speaking and writing skills and writing skills and the reading comprehension of texts of different genre.

**ESSI3125 - Spanish as Second Language: Advanced Level.**

*Three credits. Three hours of discussion per week Prerequisites: ESSI 3124 OR ADVANCED PLACEMENT.* Intensive course designed for inim's programs participants who are native speakers of other language who have an intermediate knowledge of the Spanish language. Enclosed within the context of the Puerto Rican society and culture, this course focuses on speaking and writing for academic purposes as well as the reading and analysis of literary texts.

**ESSI4005 - Spanish as a Second Language: Composition.**

*Three credits. Three hours of discussion per week Prerequisites: LEES 3124 OR ADVANCED PLACEMENT TEST.* Course designed for inim's programs participants who have a high- intermediate knowledge of the Spanish language. It focuses on the development of writing skills for social, personal and academic purposes. the course is supported on model texts, and in the study of morpho-syntactic features and intricacies of the Spanish grammar.

**HUMA3013 - A View to the West: from Greece to Byzantium.**

*Three credits. Three hours of lecture and discussion per week.* This course is an option to fulfill the humanities requirement for the general education component. It suggests the approach to western culture from an epistemological, chronological, multi-and interdisciplinary perspective, and is organized by thematic threads. It begins in Athens with the speech of Socrates, stops at the republican Rome and ends with St. Augustine and the byzantine art. Studies of history, literature, philosophy, the visual arts, architecture, music, law, politics, economics and religion, look forward to create an integral vision. It promotes the improvement of language skills, research, critical analysis, and the ethics and aesthetics sensitivity. With challenging approaches, it analyzes texts, works of art architecture, scenes and films among others. Face to face, hybrid, distance an online modalities.



**HUMA3014 - A View to the West: from Medieval Ages to Globalization.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: HUMA 3013.*

This course is an option to fulfill the humanities requirement for the general education component, as sequel to huma 3013. It aims at a critical approximation to diverse western culture manifestations, which are presented from a chronological, epistemological, multi and interdisciplinary perspective. It is organized thematically from theocentric times through the renaissance humanism, the scientific revolution, the industrial revolution, straying into the worldview of the contemporary age. the history, literature, philosophy, the visual arts, architecture, music, law, politics, economics, film, philosophy and religious struggles, are analyzed and discussed from a critical and comparative perspective, promoting the development of skills: of language, of thinking, in communication and in research, and the development of ethical and aesthetic sensibility. This course will be offered face-to-face, hybrid, distance an online modalities pre-requisites are eliminated effective January 2022.

**HUMA3017 - Looking at Images and Other Artifacts.**

*Three credits. Three hours of discussion per week.*

This course is designed to fulfill the arts requirement within the general education component. the course approaches the arts through an interdisciplinary perspective. the material characteristics of the artifacts examined, will explore how visible things mean and work. This examination enables the object to guide the viewer towards critical, theoretical and historical questions pertinent to its explanation. Reflection and analysis arise from the combination of the observation process with readings from a variety of literary and theoretical sources. the course will also encourage the student to examine his or her own thinking and learning processes. This course will be offered face-to-face, hybrid, distance and online modalities. Effective August 2022.

**HUMA3018 - Classical Mythology and Art.**

*Three credits. Three hours of discussion per week.*

This course is designed as an option to satisfy the art requirements of the general education component. It approaches the arts from an interdisciplinary perspective with the purpose of exploring the nature and history of Greco-Roman mythology as well as its history projected over the centuries as seen in the works of great western artists and thinkers. This perspective on art testifies to the presence of universal values in human life and reality. Reference is made to the descriptions of the myths and their relation to artistic representations expressed through painting, sculpture, architecture, and film, among others. This course will be offered face-to-face, hybrid, distance, and online modalities. Effective August 2022.

**HUMA3025 - Art in Museums and Beyond.**

*Three credits. Three hours of discussion per week.*

This course is designed as an option to fulfill the arts requirement of the general education component of the undergraduate program. the course examines the fascinating world of museums, both public and private, and the nature of their collections. the multi and interdisciplinary perspective explores museums as sites for research and aesthetic enjoyment, didactic centers and multiple expressions of human creativity (e. G. Artistic, historical, religious, political, scientific, technological). from the Paleolithic to the present, the course explores the origins and evolution of diverse repositories for the protection of artistic, cultural, literary and documentary creations of humanity: museums, galleries, archives, film archives, libraries and other repositories. Face to face, hybrid, distance and online modalities.

**HUMA3033 - Western Culture: Problems and Themes I.**

*Three credits. Three hours of lecture and discussion per week.*

Interdisciplinary course designed as an option to fulfill the humanities requisite of the general education

component. Examines the western culture through a selection of themes and problems. the west is presented as a process of creation of cultural meanings conveyed in opposition to non-western cultures the analysis will be based on discussion, readings and research of four concepts: the western model, memory, progress and expansionism. This course will be offered face-to-face, hybrid, distance and online modalities.

### **HUMA3034 - Western Culture: Problems and Themes II.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: HUMA 3101 OR HUMA 3113 AND HUMA 3033.*

Interdisciplinary course designed as an option to fulfill the second semester of the humanities requisite of the general education component. Examines the western culture through a selection of themes and problems. the west is presented as a process of creation of cultural meanings conveyed in opposition to non-western cultures. the analysis will be based on discussion, readings, and research of four concepts: government and governability; globalization; judgments and prejudices; and alienation, life and dead. This course will be offered face-to-face, hybrid, distance, and online modalities. Effective august 2022.

### **HUMA3041 - Music and Western Culture: Greeks World to the Baroque.**

*Three credits. Three hours of discussion per week.*

This course is one of the options available in order to fulfill the art requirement of the general education component. It introduces the musical phenomenon in the history of western culture, from its Greek roots to the baroque. Using a comparative, multi, and interdisciplinary scope, the course offers an opportunity to grasp, in a perceptive, conceptual, and creative way, the relationship that internally binds the musical arts to the cognitive, historic, social and intercultural process until 1750. This course will be offered face-to-face, hybrid, distance and online modalities. Effective august 2022.

### **HUMA3042 - Music and Western Culture: from Classicism to the Present.**

*Three credits. Three hours of discussion per week.*

This class is one of the options available to fulfill the art requirement of the general education component. It introduces the musical phenomenon in the western culture, from the classical period to our times. Using a comparative, multi, and interdisciplinary scope, the class offers an opportunity to grasp, in a perceptive, conceptual and creative way, the relationship that internally binds the musical arts to the cognitive, historic, social and intercultural process. This course will be offered face-to-face, hybrid, distance and online modalities

### **HUMA3101 - Introduction to the Western Culture I.**

*Three credits. Three hours of lecture per week.*

Critical reflection on the most important foundational aspects of western culture from the perspective of diverse humanistic disciplines such as art, history, literature, philosophy and religious thought through the analysis of the most significant works and original texts, with a particular emphasis on ancient Greece and it's relationship with the present. (c) this course will be offered face-to-face, hybrid, distance and online modalities.

### **HUMA3102 - Introduction to the Western Culture II.**

*Three credits. Three hours of lecture per week.*

Critical reflection on the most important foundational aspects of western culture from the perspective of diverse humanistic disciplines such as art, history, literature, philosophy and religious thought, through the analysis of the most significant works and original texts, with a particular emphasis on ancient Rome, the origins of Christianity and transition from the Hellenistic era to the middle age and their relationship with the present. (c) this course will be offered face-to-face, hybrid, distance and online modalities.

### **HUMA3106 - Christianity and the Ancient World.**

*Three credits. Three hours of discussion per week.*

This course is an option to fulfill the humanities requisite of the general studies component at Rio Piedras campus. This course explores the history of Christianity as it relates to its two cultural backgrounds: the Hebrew and the Greco-Roman. It focuses upon the relationship between the dominant cultures of antiquity and oppressed cultures, stressing the role of the common class and their moral and spiritual needs. It examines the literature, art and archaeological remains of Christian culture and of its environment. This interdisciplinary course allows us to cover a wide field of cultural expressions, such as education, law philosophy, history, governmental policies, religion, familial relations, and many others. It encompasses the main concepts of the humanities curriculum and covers from c. 200 bce to the beginnings of the middle age. This course will be offered face-to-face, hybrid, distance and online modalities. Effective August 2022.

### **HUMA3113 - Reading the City I: Ancient and Medieval Text Representations.**

*Three credits. Three hours of lecture per week.*

Interdisciplinary course designed as an option to fulfill the humanities requisite of the general education component. the ancient city is studied through readings, audiovisual resources, discussion, field trips, and research, among other instructional strategies. the city is examined from different perspectives, starting with the first cities of the ancient world (Egypt, Mesopotamia, the Indus basin, and pre-Columbian (cities) to the Greek polis. This course will be offered face-to-face, hybrid, distance and online modalities. Effective august 2022.

### **HUMA3114 - Reading the City II: Ancient and Medieval Text Representations.**

*Three credits. Three hours of discussion per week Prerequisites: HUMA 3101, HUMA 3113, HUMA 3033.*

Interdisciplinary course designed as an option to fulfill the second semester of the humanities requisite of the general education component. the ancient and medieval city (particularly Rome and Byzantium) is studied through readings, audiovisual resources, discussion, field trips, and research, among other instructional strategies. the city in the ancient and medieval world is examined through its textual representations and from different perspectives, always in counterpoint with the city and the diverse aspects of the urban experience of the present time. This course will be offered face-to-face, hybrid, distance, and online modalities. Effective august 2022.

### **HUMA3121 - Transatlantic Literature: from the Conquest to the Baroque.**

*Three credits. Three hours of discussion per week.*

This course is designed as an option to fulfill the literature requirement for the general education component. It provides a historical, critical, and analytical approach to transatlantic literature, with emphasis on the cultural confrontations, exchanges and/or reactions to the conquest of America. Due to its interdisciplinary nature, readings and discussions on literary works will be also complemented with the study of other texts (philosophical, literary, political, legal) and other cultural and artistic manifestations on the topic (visual arts music). This corpus of literary and artistic "texts" will help configure an integrated and critical view of the dynamics of power which compose a lettered cartography of the transatlantic exchanges from the conquest to the baroque. This course will be offered face-to-face, hybrid, distance, and online modalities. Effective august 2022.

### **HUMA3122 - Transatlantic Literature: from Illustration to Present.**

*Three credits. Three hours of discussion per week.*

This course is designed as an option to fulfill the literature requirement for the general education component of the Rio Piedras campus. It makes a historical, critical and analytical journey of the transatlantic literature, emphasizing the study of the representations of the exchanges, conflicts and or cultural reactions that arise on both sides of the Atlantic, from the 18th century to the present. the reading, analysis and discussion of

literary works will be complemented with the study of other artistic and cultural manifestations that might help shape a broader image of the diverse dynamics of power that make up this literary cartography of the transatlantic crossroads. This course will be offered face-to-face, hybrid, distance, and online modalities. Effective august 2022.

### **HUMA3136 - Ancient Hebrew Culture in the Mediterranean Context.**

*Three credits. Three hours of discussion per week.*

This course is an option to fulfill the humanities requisite of the general studies component at Rio Piedras campus. the ancient Hebrew culture will be examined in its physical and cultural environment. from an inter disciplinary perspective the course shall examine the literature, history, ideological framework, intercultural transactions and enduring impact upon western cultures of this important root of our civilization. the course will use methodologies of literary criticism, of archaeology, of linguistic investigation, and of cultural and religious anthropology. Covering the period from 3000 bce to 500 ce, it will stress its relationship with other neighboring cultures, such as that of Mesopotamia. Egypt and the Aegean. It traces the development of Hebrew thought from its origins, through the period of great empires, unto the Hellenistic and roman periods, and projects a rapid view into the development of Judaism to the present. Course offered face-to-face, hybrid, online and distance. Effective august 2023

### **HUMA3201 - Introduction to the Western Culture III.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102.*

Critical reflection on the western cultural process from the middle age to the renaissance, emphasizing the areas of literature, philosophy, art, history and religious thought, through an analysis of the most representative works and texts from these periods and their relationship with the contemporary world. (c)

### **HUMA3202 - Introduction to the Western Culture IV.**

*Three credits. Three hours of lecture per week Prerequisites: HUMA 3101-3102.*

Critical reflection on the western cultural process from the eighteenth century to the present, emphasizing the areas of literature, philosophy, art, history and religious thought, through an analysis of the most representative works and texts from these periods. (c)

### **HUMA3211 - Western Culture: Medieval and Renaissance.**

*Three credits. Three hours of discussion.*

This course is designed as an option to satisfy the humanities requirements within the component of general education. It analyzes the conflicts, changes and transformations which face the towns of the European west, during this fascinating historical period: from middle age through renaissance, the "discovery", the conquest and colonization of the new world, and the beginnings of the modern age. It approaches, from an interdisciplinary perspective, the realities of a fragmented Europe at the end of the roman empire, the new visions, powers and problems of the catholic church are examined, the new dimensions and possibilities of the human being in the renaissance, and the development of a new economic order, product of great changes; everything in conversation between cultures, specifically the byzantine empire and the Islam. This course will be offered in face-to-face, hybrid, distance and online modalities.

### **HUMA3212 - Western Culture: modern Times to the Present.**

*Three credits. Three hours of discussion per week.*

This course is designed as an option to satisfy the humanities requirements within the component of general education. It starts with the rationalism of the end of 17th century and culminates with the perspectives that mark the cultural panorama of the present. from a multi and interdisciplinary perspective, guided by thematic threads, analyzes the western intellectual and social production of the periods that we defined as "modernity and the postmodernism" aspects of the scientific revolution of the end of 17th century are

examined critically; the illustrated culture of the 18th century; the French revolution and the American independences, sensibility of the romantic movement; the emergence of capitalism and the industrial revolution; the consolidation of the bourgeois subject; the naturalism, the realism and the 19th century historicist speech; the vanguards and the great conflicts of the 20th century; and the problematization of the modern and postmodern projects. This course will be offered face-to-face, hybrid, distance and online modalities

### **HUMA3215 - Space and Culture: The Medieval Cathedral.**

*3 credits. Forty five minutes of lecture, one hour and fifteen minutes of discussion and one hour of workshop per week.*

Course designed as an option to meet the humanities requirement of the general education component. the medieval cathedral will be used to explore the communities acculture the space where they converge and make explicit the existing and developing knowledge during the late middle age. Until

### **HUMA3501 - Art and Culture of Indian XXIV B.C. to XII A.C.**

*Three credits. Three hours of lecture per week.*

the study of the art and culture of Indian through an inter and transdisciplinary approach. Representative works will be studied from xxiv b. C until 12th century a. C. the course includes the Harappa civilization, the art of Hinduism and Buddhism, the rock culture of Buddhists, Hindus and Jains and the development of the Hindu temple. the richness and diversity of Indian art and culture and the understanding of its artistic, philosophical, religious, social and political contexts will be emphasized. A dialogue on the convergences and divergences between the arts of the east and the west will be encouraged. It can satisfy the requirements of 3 credits in arts of the general education component. Course offered face-to-face, hybrid, online and distance. Effective august 2023.

### **HUMA3502 - Art and Culture of Indian X-XXI A.C.**

*Three credits. Three hours of lecture per week.*

Study of the art and culture of Indian. Representative works will be studied from X until XXI century, A.C. the course includes the temples of north Indian, Islamic art, the Hindus temple of Meenakshi, Tamil Nadu in the Indian south; religious, secular, colonial and contemporary art. the richness and diversity of Indian art and culture and the understanding of its artistic, philosophical religious, social, and political contexts will be emphasized. A dialogue on the convergences and divergences between the arts of the east and the west will be encouraged. It can satisfy the requirements of 3 credits in arts of the general education component. Course offered face-to-face, hybrid, online and distance. Effective august 2023

### **INEL3105 - Electrical System Analysis I.**

*Three credits. Three hours of lecture per week Prerequisites: MATE3152 CALCULUS II OR ITS EQUIVALENT*

Analysis of direct current and alternating current linear electric circuits; laws and concepts that characterize their behavior. Operational amplifier; sinusoidal steady-state analysis; phasor concept; single phase circuits power analysis.

### **INGE3011 - Engineering Graphics I.**

*Two credits. One hour of lecture and three hours of laboratory per week Prerequisites: ADMISSION TO THE PROGRAM OF PRE-ENGINEERING.*

Principles of language: fundamentals of delineation, analysis, and solution of space problems, symbols and standards as applied in engineering. Freehand drawing as a tool for visualization. Principles of orthographic projection, sections, auxiliary views, and conventional practices. Pictorial drawings: axonometric, oblique, and perspective. Introduction to descriptive geometry. Hand and computer-aided drawing.

**INGE3016 - Algorithms and Computer Programming.**

*Three credits. Three hours of lecture per week*

Development of algorithms and their implementation in a structural high-level language. Programming techniques applied to the solutions of engineering and mathematical problems.

**INGE3017 - Computer-aided Graphics.**

*Two credits. Two hours of lecture and two hours of laboratory per week Prerequisites: INME 3011, INME 3809.*

Fundamentals of computer-aided graphics in engineering.

**INGE3031 - Engineering Mechanics: Statics.**

*Three credits. Three hours of lecture per week*

Analysis of force systems; the laws of equilibrium, analysis of simple structures, distributed loads, friction, centroids and moments of inertia.

**INGE3032 - Engineering Mechanics: Dynamics.**

*Three credits. Three hours of lecture per week Prerequisites: INGE 3031 AND FISI 3171*

Kinematics of particles and rigid bodies; relationships between force, mass and acceleration; work and energy; impulse and momentum.

**INGE3045 - Materials Science for Electrical Engineers.**

*Three credits. Three hours of lecture per week Prerequisites: QUIM3002*

Principles that determine the properties of conductors, semiconductors, and insulators. Electromechanical properties: diffusion, electrical conduction, thermal conduction, magnetic and optical properties.

**INGE3809 - Creative Design I.**

*Three credits. Two hours of lecture and two hours of laboratory per week Prerequisites: ADMISSION TO THE PROGRAM OF TRANSFER ARTICULATED IN ENGINEERING OF UPR-RP.*

Introduction to engineering problem solving methods and the design process as a systematic methodology. Introduction to basic engineering standards and conventions for graphic communication. Fundamentals of graphic visualization including freehand drawing of three and two-dimensional objects. Fabrication of three-dimensional concept models. Use of computer aided modeling software as a tool for visualization and analysis of engineering problems.

**INGL3003 - Basic Skills in English I.**

*Three credits. Three hours of lecture per week.*

Development of basic grammar, writing, oral, and reading comprehension and analysis skills. (c)

**INGL3004 - Basic Skills in English II.**

*Three credits. Three hours of lecture and one hour of laboratory or workshop per week Prerequisites: ENGL 3003.*

Development of basic grammar writing, oral, and reading comprehension and analysis skills (short stories). (c)

**INGL3011 - Honor English I.**

*Three credits. Three hours of lecture per week.*

for students who have already mastered the fundamentals of the language and who are ready to do more advanced work. the students who finish the year course successfully are not required to take any more English courses unless their particular college, requires it. (c) this course will be offered face-to face, hybrid

and distance. Effective August 2022.

### **INGL3012 - Honor English II.**

*Three credits. Three hours of lecture per week Prerequisites: INGL 3011.*

For students who have already mastered the fundamentals of the language and who are ready to do more advanced work. The students who finish the year course successfully are not required to take any more English courses unless their particular college, requires it. (c) this course will be offered face-to-face, hybrid and distance. Effective August 2022.

### **INGL3101 - Basic English I.**

*Three credits. Three hours of lecture per week.*

Designed to meet the students' immediate needs and to give them sufficient command of English for professional and cultural growth. Skills in reading and writing are developed. (c) face-to-face, hybrid, distance, and online modalities. Effective August 2022.

### **INGL3102 - Basic English II.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3101.*

Designed to meet the students' immediate needs and to give them sufficient command of English for professional and cultural growth. Skills in reading and writing are developed. (c) face-to-face, hybrid, distance, and online modalities. Effective August 2022.

### **INGL3103 - Intermediate English I.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS WHO HAVE AN AVERAGE COMMAND OF ENGLISH.*

Analysis of selected readings, such as essays, fiction, poetry or drama, and practice in writing with attention given as needed to grammar and idiomatic expressions. (c)

### **INGL3104 - Intermediate English II.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS WHO HAVE AN AVERAGE COMMAND OF ENGLISH; ENGL 3103.*

Analysis of selected readings, such as essays, fiction, poetry or drama, and practice in writing with attention given as needed to grammar and idiomatic expressions. (c)

### **INGL3123 - Computer Assisted Writing Across the Disciplines.**

*Three credits. One hour of lecture, one hour of discussion, and one hour of workshop per week Prerequisites: ESLAT 581-680 (COLLEGE BOARD).*

Three credits. One hour of lecture, one hour of discussion, and one hour of workshop per week Prerequisites: ESLAT 581-680 (COLLEGE BOARD).

### **INGL3124 - Computer Assisted Writing Across the Disciplines.**

*Three credits. One hour of lecture, one hour of discussion, and one hour of workshop per week Prerequisites: APPROVED ENGL 3123.*

Three credits. One hour of lecture, one hour of discussion, and one hour of workshop per week Prerequisites: APPROVED ENGL 3123.

### **INGL3135 - the Journey in Literature.**

*Three credits. Three hours of discussion per week.*

This course is an option for completing the literature requirement of the general education component. The course analyzes the travel narrative in a variety of texts, including fiction, non-fiction, prose, drama, film,

and poetry, to understand the relationship between these works and themes of self-discovery, cultural identity, personal achievement, and a search for meaning. Students and the professor will look at the master narratives of the journey in literary texts as a window into various issues. the course can be altered to emphasize particular geographic sites, types of journeys, a specific theme related to the journey or representations of journey in a specific genre. the professor will use one or several of the following focuses: scientific discovery, gender, sexual preference, personal and national identity, race, colonialism, post-colonialism, and philosophy. This course will be offered face-to-face, hybrid and distance modalities. Effective August 2022.

### **INGL3150 - Literature of Crime.**

*Three credits. One hour and a half of discussion, .75 of lecture and .75 of research*

This course is an option for completing the literature requirement of the general education component. This course will focus on true crime; representations of crime in popular culture; literary works in which a crime is central sensational crimes; crimes against humanity; political and financial crimes; crimes related to race, ethnicity, gender, gender identity and sexual orientation. and socioeconomic and undocumented status, among others. Because crimes are by definition, transgressions, they serve to highlight what is at the heart of a particular culture or society. Writing focused on crime thus helps us to understand not only what tears communities and societies apart, but also what holds them together. This course is interdisciplinary in focus, drawing from any and /or all of the following modes of critique: literary analysis, cultural studies, history, the law, psychology and the social sciences. This course will be offered face-to-face, hybrid and distance. Effective 08\22.

### **INGL3151 - the Human Condition in Literature: Interdisciplinary Perspective I.**

*3 credits. Three hours of lecture per week.*

Optional course to satisfy the literature requirement of the general education component. Within the framework of selected themes about the human condition related to relationships identity, love and their conflicts, students critically analyze issues and value conflicts in life from the perspectives of literature and various other disciplines, such as the social sciences, communications, the natural sciences, the arts, and humanities. Through an interdisciplinary approach, students become aware of the interrelationship of knowledge. Moreover, students learn to evaluate and critically comment-both in writing and oral discussions-on their world, leading to an understanding of themselves and others, while developing their writing and speaking skills by means of short papers, critical reviews, creative tasks, interactive class discussions, presentations, and research project. This course will be offered face-to-face, hybrid and distance. Effective august 2022.

### **INGL3152 - the Human Condition in Literature: Interdisciplinary Perspectives II.**

*3 credits. Three hours of lecture per week.*

Optional course to satisfy the literature requirement of the general education component. This course examines selected contemporary topics of the human condition related to alienation, justice and ethics from the perspectives of literature and other disciplines, such as the social sciences, humanities, communication, the arts, and the natural sciences. Students explore the construction and integration of knowledge within diverse texts and relate the issues studied to their world. During the course students learn to critically analyze through reading, discussion, and writing. It also promotes the development of technological and research skills through students' involvement in research projects, where they collect, evaluate, and use data from a variety of sources. in addition, students improve their writing and speaking skills by means of short papers, critical reviews, creative tasks, interactive class discussions and presentations.

### **INGL3161 - Intensive Basic English I.**

*Three credits. Three hours of discussion per week Prerequisites: 469 OR LESS ON THE CEEB-ESLAT EXAM*



*(ACTFL PROFICIENCY GUIDELINES) Corequisites: INGL3163*

This course fulfills the English requirement for the general education component. It is designed for students to develop the basic English language skills for understanding academic texts and communicating ideas orally and in writing at an intelligible level. The course provides students with conversational and writing competencies. Using nonfictional selections with an interdisciplinary thematic content as the focus of discussion, oral and critical thinking skills are fostered. Writing reinforces listening, speaking, and reading skills so that students can express ideas through the thoughtful articulation of vocabulary and grammar. Laboratory sessions are required. This course will be offered face-to-face, hybrid, distance and online. Effective August 2022.

### **INGL3162 - Intensive Basic English II.**

*Three credits. Three hours of discussion per week Prerequisites: INGL3161 AND INGL3163 Corequisites: INGL 3164*

This course fulfills the English requirement for the general education component. It further develops the basic linguistic and critical thinking skills introduced in the course Intensive Basic English I. Emphasis is placed on the integration of skills for meaningful communication of ideas around interconnected themes. Listening, speaking, reading, and writing skills are integrated and reinforced through the reading and analysis of short stories. The class discussion of these fictional selections provides the context to develop vocabulary, invite interaction, and engage students in sharing ideas through the writing of essays. This course requires laboratory sessions. This course will be offered face-to-face, hybrid, distance and online. Effective August 2022.

### **INGL3211 - Advanced English I.**

*Three credits. Prerequisites: SCORE OF 4 OR 5 ON ADVANCED PLACEMENT OF THE COLLEGE ENTRANCE EXAMINATION BOARD.*

An introduction to the experience, interpretation, and evaluation of literature. Reading and writing assignments will focus on short fiction, modern drama, the elements of poetry, and the essay. Fundamental library skills related to literary study will be introduced.

### **INGL3212 - Advanced English II.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3211.*

This course will emphasize the development of reading, discussion, and writing skills through the experience, interpretation and evaluation of the novel, Shakespearean drama, and the complex texture of poetry. A research paper related to literary study will be required.

### **INGL3270 - Building Research Projects.**

*Three credits. Three hours of discussion per week Prerequisites: INGL3161-3162 OR INGL3101-3102*

This course (EAP) is designed for second year students. It offers the basic English population an option for completing an English elective and/or general education bachelor's program elective component. This course initiates students in formal academic writing and introduces essential research competencies. Readings for this course are on interdisciplinary topics. The course strengthens a critical response and reasoned point of view as a basis for argument in order to prepare them for discourses inside and outside of academia.

### **INGL3297 - Women of Color Writers in English.**

*Three credits. Three hours of discussion per week*

This course is an option for completing the literature requirement of the general education component. The course will focus on women of color, such as but not limited to African American, Native American, Asian American, and Latina/Chicana, writers and how they express themselves in a variety of texts. It explores questions of identity formation and/or disintegration and how they are rooted in issues of race, gender,

social status, history, community, economic, and generational conflict. Critical reading in different genres demonstrates where these women of color writers fit into the canon of work written in the English language and to see how their texts have an interdisciplinary, transcultural and multicultural focus. The course will also assess the significance and role of the writings as part of women's literature, feminist literary theory and critical race theory. Information literacy competences are an essential component of this course. This course will be offered face-to-face, hybrid and distance. Effective August 2022.

### **INSI3001 - Basic Communication in English I.**

*Three credits. Three hours of discussion per week.*

Intensive course designed for students of the interdisciplinary and multicultural institute (inim) who have little or no knowledge of English. This course will focus on speaking, reading, and writing English in social contexts. Emphasis will be placed on developing communicative skills.

### **INSI3002 - Basic Communication in English II.**

*Three credits. Three hours of discussion per week Prerequisites: INSI 3001.*

Intensive course designed for students of the interdisciplinary and multicultural institute (inim) who have basic or limited knowledge of English. This course will focus on speaking, reading, and writing English in social contexts. Emphasis will be on continuing to develop the communicative skills that were learned in basic communication in English I.

### **INSI3101 - Intermediate Communication in English I.**

*Three credits. Three hours of discussion per week Prerequisites: INSI 3002.*

Intensive course designed for students of the interdisciplinary and multicultural institute (inim), who have an intermediate beginning knowledge of English. This course will focus on speaking, reading, and writing English in social contexts. Emphasis will be placed on developing communicative skills.

### **INSI3102 - Intermediate Communication in English II.**

*Three credits. Three hours of discussion per week Prerequisites: INSI 3101.*

Intensive course designed for students of the interdisciplinary and multicultural institute (inim), who have intermediate knowledge of English. This course will focus on speaking, reading, and writing English in social contexts. Emphasis will be placed on expanding communicative skills learned in intermediate communication in English I.

### **INSI3301 - English for Professional Development I.**

*Three credits. Three hours of lecture per week Prerequisites: PLACEMENT EXAM OFFERED BY INIM.*

Course designed for students of the interdisciplinary and multicultural institute (inim) that focuses on the development of listening comprehension and oral communication skills in English. Promotes self-confidence when speaking English by those preparing for, or already in work related position. Emphasis will be on in-house (internal) communication. Effective oral communication will be stimulated through exercises in a wide variety of situations. It also aspires to improve participants' proficiency in reading comprehension and writing skills by providing concise useful guidelines adaptable to various situations in the workplace. Participants are encouraged to do electronic research to find useful written and/or oral forms of communication.

### **INSI3302 - English for Professional Development II.**

*Three credits. Three hours of lecture per week Prerequisites: INSI 3301.*

This course was designed for students of the interdisciplinary and multi-cultural institute (inim) and continues developing communication skills which began in English for professional development. These skills are needed by those preparing for, or already in work related positions. Emphasis will be on external communication. Effective oral communication will be stimulated through exercises based on a wide variety

of work situations. It also aspires to continue improving participants' proficiency in reading comprehension and writing by providing concise useful guidelines adaptable to various situations in the workplace. Participants are encouraged to do electronic research to find useful written and/or oral forms of communication.

### **INSI3401 - Conversational English I.**

*One credits. One hour of discussion per week Prerequisites: PLACEMENT EXAM OFFERED BY INIM.*

A conversational English course designed for students of the interdisciplinary and multicultural institute (inim) who have little or no knowledge of English. This course develops oral communication skills within diverse social contexts.

### **INSI3402 - Conversational English II.**

*One credits. One hour of discussion per week Prerequisites: PLACEMENT EXAM OFFERED BY INIM (INTERDISCIPLINARY AND MULTICULTURAL INSTITUTE).*

A conversation English course designed for students of the interdisciplinary and multicultural institute (inim) who are basic level English speakers. It is intended to give students more experience in the use of the English language. Dialogues are used to emphasize vocabulary and structural patterns. Students are encouraged to apply the vocabulary and the structural patterns to new situations.

### **INSI3403 - Conversational English III.**

*One credits. One hour of discussion per week Prerequisites: PLACEMENT EXAM OFFERED BY INIM.*

Conversational English course designed for students of the interdisciplinary and multicultural institute (inim) who have intermediate or advanced speaking. It is intended to give students more experience in the use of the English language. Continued development of effective listening skills is emphasized throughout the course so as to strengthen students' oral comprehension skills. The course builds on and strengthens vocabulary and structural patterns acquired in past experiences with the English language while providing opportunities to generate new and increasingly complex patterns of speech.

### **INSI3405 - Writing in English.**

*Three credits. Three hours of lecture per week.*

This course is designed for students of the interdisciplinary and multicultural institute (inim) with an intermediate to advanced level of English. It develops students' writing in English, focusing on effective written style and critical analysis. The course will cover the basic elements of formal essays and the development of arguments. Students will learn ways to make their writing more detailed, and clear.

### **INTD3035 - History, Women and Gender Seminar in Puerto Rico 20th Century.**

*Three credits. Three hours of seminar per week.*

Analysis of historical perspectives of women and gender areas of study. Main themes are: work, politics, legality, and literature. Discussion is seminar type. August 14, 2001.

### **INTD3036 - Feminist Theories and Methodologies.**

*3 credits. Three hours of lecture per week.*

This course examines some feminist foundational texts, as well as different genealogies and critical approaches. It also examines debates of feminist epistemologies. Students will become acquainted with feminist critical views on research methods and interpretations of varied fields of knowledge. Prevalent feminist theories and their relation to the political struggles of women and of the LGBTQ+ communities will be discussed. Attention will also be paid to antiracist, decolonial, communitarian, and transfeminism views. This course will be offered face-to-face, hybrid and distance modalities.

**INTD3037 - Gender and Performance: Body Is Performed.**

*Three credits. Three hours of seminar per week.*

Course in which we will study the history of representation into the contemporary dance in a gender perspective. the course is organized as a seminar with a theoretical and a practical component allowing approaching the stage experience of the individual creation in which the primordial elements are the body and the movement. the work proposed is accompanied of an intellectual experience that theorizes aspects of representation of the sexual differenced body in the contemporary performance.

**INTD3045 - Introduction to Gender Debates.**

*Three credits. Three hours of lecture per week.*

This course deals with the tension between the theories that pretend the explanation of gender as a social construction and the development of the political struggle. the course organizes five units that serve as basis that create the theory of relations sex and gender. August 14, 2001.

**INTD3046 - Feminine Writings.**

*Three credits. Three hours of lecture per week.*

Analysis of the literary corpus written by women from the viewpoint of the theory of feminine writings. Within a historic perspective, the course will explore literary genders such as diaries, autobiographies epistolary novels and testimonies. August 14, 2001.

**INTD3055 - Initiation of the Masculine Gender Studies.**

*Three credits. Three hours of lecture per week.*

Analysis of the theories and paradigms that have served at the basis for the masculine gender studies, in order to study the central issues of what is called the hegemonic masculinity.

**INTD4046 - Body Politics and Revolution.**

*Three credits. Three hours of lecture per week.*

Interdisciplinary course that explores the political and socio-cultural construction of the modern body, paying heed to the contradictions inherent to such construction. Legal, medical, and literary texts will be studied, as well as social commentary and chronicle, film, art, and caricature, with special attention to the use of graphic pornography. August 14, 2001.

**INTD4895 - Seminar on Gender in A World Context.**

*One to Nine credits. One to nine hours of seminar per week Prerequisites: INTD3036 OR INTD3045.*

This advanced undergraduate umbrella seminar is framed within the university of Puerto Rico's goal to involve itself within global fields of knowledge. It will engage students in the discussion and analysis of topics and problems around gender studies, sexuality, race and class, in a world context. from an interdisciplinary perspective, the course deals with issues of public policy, community practices, intergovernmental policies, international organizations, interculturalism, emigration and immigration, population displacement, human trafficking, legal and juridical issues, and forms of resistance, in a comparative framework. the course can have variable credits and can be repeated up to a maximum of 12 credits, as long as the theme is different. It may take the form of UPR regular courses, courses combined with other institutions, or courses involving fieldwork in other countries. This seminar differs from gender in a global context by its use of pass/fail grading.

**INTD4990 - Seminar on Gender, Sexualities and Writing.**

*Three credits. Three hours of seminar per week*

The seminar will serve as an umbrella course under which to consider connections between gender, sexualities, and writing from an interdisciplinary perspective. the course approaches gender from a variety of

texts, not limited to the literary, in order to explore how gender and sexualities are interpreted within the space of representation involved in writing. The seminar also seeks to examine the ways in which, in the studied texts, gender is mediated by other categories such as race, class and nationality among others. Likewise, the course is conceived to encompass themes that are specific to gender studies such as alterity, body politics, masculinity, subject and identity, among others. Research is an integral part of this course. Thematic variations offered under this umbrella course will satisfy electives required for the curricular sequences on women and gender studies. The course may be repeated up to three times as long as the topics are different.

#### **INTD4991 - Seminar on Body Practices.**

*One to Six credits. Three hours of seminar per week.*

This seminar will serve as an umbrella under which to explore relations between bodily practices and knowledge production from an interdisciplinary perspective. It approaches socio-cultural body centered practices through feminist and queer methodological strategies. It can focus diverse disciplines and practices, such as the performing arts, performance, visual arts, sports and other body-centered practices. The body is understood here as slanted by gender, sexuality, race, class. The course approaches research with and from the body as knowledge producer, memory, archive, otherness, subjectivity and identity. Research is an integral part of this course. Courses on different themes offered under this umbrella will satisfy electives required for the curricular sequence on women and gender studies. The course may be repeated up to three times as long as the topics are different.

#### **INTD4992 - Seminar on Gender and Education.**

*One to Six credits. One to three hours of seminar per week.*

This double coded seminar is an umbrella course which explores the relationship between education and gender studies from an interdisciplinary perspective. The course approaches concepts such as difference, diversity and alterity in connection to the constitution of gender, sexuality and race identities/subjectivities. It examines current debates on these topics from formal and informal educational contexts, and from theoretical and practical perspectives. It can focus on a diversity of disciplines, among others, pedagogy, history, anthropology, sociology, philosophy, the arts, and literature. The course opens up possible research themes arising from discussions on inequality, knowledge androcentrism, as well as from the fundamental theory and practice of democracy and human rights. Courses on specific themes taught under this umbrella may be repeated up to three times as long as the topic is different.

#### **INTD4993 - Seminar on Gender and Visual Arts.**

*One to Six credits.*

This umbrella seminar will serve as interdisciplinary space to research in the visual arts from a gender perspective. Taking into consideration art histories, visual studies and artistic practices, the seminar provides the possibility to examine visual culture considering key issues in gender studies such as sex/gender/sexuality/race/class, body politics, alterity, subject and identity gender construction and denaturalization among others. By means of seminar the student will be exposed to visual arts as a possible space for reflection and knowledge production in academic research. Courses on different themes.

#### **INTD4997 - Seminar on Gender and Philosophy.**

*Three credits.*

This seminar will serve as an umbrella under which to open spaces to examine relations between gender and philosophy from an interdisciplinary perspective. The course provides the possibility for approaching gender from fields specific to philosophy, such as ontology, epistemology, ethics, aesthetics, philosophy of science, philosophy of language, political philosophy, theology, among others. Likewise, the course is conceived to encompass themes that are specific to gender and gender studies such as alterity, body politics,

subject and identity, among others. Research is an integral part of this course. Courses on different themes offered under this umbrella will satisfy electives required for the curricular sequence on women and gender studies. the course may be repeated up to three times as long as the topics are different.

#### **INTD4999 - Reading Seminar on Gender Studies.**

*One to Six credits. One to six hours of seminar per week.*

This umbrella seminar engages in the discussion and analysis of readings on gender studies, sexuality, race and class in their intersectoral condition. the course may address these issues, from an interdisciplinary perspective, through topics such as history, social sciences, literature, art, natural sciences, philosophy, among others, examining the scope and limits of their diverse approaches. It explores contemporary debates on these issues, as well as their preceding and foundational debates. the thematic focus of each course will change every semester. in accordance to the selected topic, the course will propose and appraise research topics arising from discussions. the course may be taught with varied credits, allowing for intensive short seminars as well as for longer courses.

#### **INTD5115 - Advanced Seminar or Course of Study of Gender.**

*Three credits. Three hours of lecture per week.*

Context of development of research design project or to strengthen a particular area of study. A work proposal will be formulated according to the field of study and objectives stated by the curricular sequence of the study of woman and gender program.

### **GRADUATE SCHOOL OF PLANNING**

#### **PLAN4406 - Introduction to Statistics for Planners.**

*Three credits. Three hours of lecture per week.*

Introduction and basic concepts. the following themes will be discussed: graphics and tables, variables, distributions, central tendency measures, dispersion measures, levels of confidence, errors vs. Information, correlation, significance, multiple correlation, and the testing of hypotheses.

#### **PLAN4407 - Introduction to Planning.**

*Three credits. Three hours of lecture per week.*

The planning process and its relation to government processes. Introduction to principles of urban, economic, social, and regional planning.

#### **PLAN4408 - Economic Concepts for Planners.**

*Three credits. Three hours of lecture per week.*

Basic concepts and methods of analysis employed in economic theory for students that have been accepted by the school of planning but have not covered this discipline in their previous studies. the topics to be covered are main economic problems of all societies and alternative solutions, theory of production, demand theory, price determination under different market conditions, national income and its principal components, fiscal policy, monetary policy and international trade.

#### **PLAN4409 - Sociological Concepts for Planners.**

*Three credits. Three hours of lecture per week.*

Analysis of sociological concepts directly related to planning. Topics to be analyzed are the substance and method of sociology; problematic areas such as social organization and its varieties; processes such as socialization, mobility, change, etc.; concepts such as society, culture, community, social structure systems, and social classes.

**PLAN4995 - Introduction to Physical-environmental Analysis and Design.**

*One to Three credits. One hour of lecture and two hours of laboratory work per week Prerequisites: ADMISSION TO THE SCHOOL.*

This is an introductory course with a workshop, consisting of three modules: 1) introduction to physical geography; 2) instruments for spatial analysis and measurement; 3) graphics and design techniques, aimed at improving sensitivity to form, texture and color. This course is to be graded as p or np students may be exempted from any one of the modules by passing exams and/or submitting a project on physical design. Extensive laboratory work.

**PLAN5005 - Introductory Economics, Statistics and Mathematics for Planners.**

*Four credits. Ten hours lecture and discussion per week.*

Introduction to the study of statistics, economics and mathematics as these apply to the planning field, by means of developing the ability to reason using statistical, mathematic and economic information. This course will be offered face-to-face, hybrid and online modalities.

**COURSES WITH CREDIT – FREE ELECTIVES**

**BEOF3001 - Design and Artistic Development.**

*3 credits. Three hours of lecture and laboratory per week.*

Theory and practice of the different design principles applicable to original pieces. Emphasis on practice, the development of aesthetical sensibility and originality of each student. This course will be offered in face-to-face, hybrid and online modalities.

**BEOF3002 - Design for Artistic Creation.**

*3 credits.*

Development of design concepts for creation in applied arts. Emphasis on practice, the development of aesthetic sensibility, and the creativity of each student. This course will be offered in face-to-face, hybrid and online modalities.

**BEOF3261 - Foundations of Drawing and Pictorial Creation.**

*Three credits.*

Integrated course in drawing and painting for beginners. the fundamentals of drawing will be studied and practiced through line and intonation. the observation of the forms, its conceptualization and its realization will be used in various means of drawing. the fundamentals of painting as a visual means of expression and communication of ideas through color will be approached from different media and supports used for pictorial work. This course will be offered in face-to-face, hybrid and online modalities.

**BEOF3262 - Mixed Media Sculpture: Surface Design, Techniques and Materials.**

*Three credits. Three hours of lecture per week.*

This course offers experiences in the areas of design, technique and creation through sculpture. Those interested will approach the study of design in the two-dimensional and three-dimensional surface using mixed material such as cardboard, wood, plastic, metal, glass and dry modeling paste (poly-clay). in addition, it allows the creation of modeling and other artistic media. Face-to-face, hybrid and online course.

**BEOF3301 - Introduction to Pottery - Part I.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: CONSENT OF THE DIRECTOR.*

First experiences with clay. Hand building techniques: free form, slab and coil methods. Surface treatment. Study of basic forms and possibilities. Emphasis on the development of each student's potential for

originality and free expression in his interaction with clay. (c) this course will be offered face-to-face, hybrid and online modalities.

**BEOF3302 - Introduction to Pottery - Part II.**

*Three credits. Three hours of lecture and laboratory work per week Prerequisites: ARCR 3301.*

Student will be allowed to select method of construction. Introduction to sculptural form (mural and free-standing) with emphasis on the integration of structure, form, glazes and oxides. Study of the physical properties of clay. Kiln firing.

**BEOF3311 - the Potter's Wheel in Contemporary Ceramics I.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Potter's wheel selection of appropriate clay bodies and wedging. Centering, opening and raising. Basic forms. Trimming of foot rim and surface finishing. (c) this course will be offered face-to-face, hybrid and online modalities.

**BEOF3312 - the Potter's Wheel in Contemporary Ceramics II.**

*Three credits. Three hours of laboratory work per week Prerequisites: ARCR 3311.*

The construction of complex forms, bottles and places with covers. Construction in sections.

**BEOF3313 - Clay Bodies and Ceramics Glazes.**

*Three credits. Two hours of lecture and four of laboratory work per week Prerequisites: ARCR 3301-3302.*

Theory and practice of procedures involved in developing and preparing clay bodies and ceramic glazes. Study of raw materials and their use. Glaze calculation.

**BEOF3315 - the Ceramic Surface.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCR 3301-3302.*

Design applied to ceramics emphasizing the different techniques used in surface treatment. Glaze preparation, use of oxides, textures, etc.

**BEOF3317 - Raku.**

*Three credits. Three hours of laboratory per week Prerequisites: ARCR 3301-3302.*

Construction and preparation of clay bodies and glazes for low fire and for the process of local reduction. Experiments with raku techniques.

**BEOF3321 - Molds in Contemporary Ceramics I.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCR 3301-3302.*

Molds in contemporary ceramics. Plaster and its properties, plaster/water proportions according to use. Calculating plaster amounts by volume. Types of molds and their construction. Slip: preparation and casting.

**BEOF3351 - Independent Workshop.**

*3 credits. Three hours of laboratory per week.*

Workshop of techniques and elaboration of specialized artistic project in applied arts. This course will be offered in face-to-face, hybrid and online modalities.

**BEOF3361 - Ceramic Mural I.**

*Three credits. Three hours of lecture per week Prerequisites: ARCR 3301-3302.*

Theory and practice of mural design and production in ceramics. Different constructions methods.



**BEOF3401 – Loom weaving: Tapestries I.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

The different loom weaving techniques. Construction and use of various simple looms. More complex looms. Creation of original designs, their adaptation to loom weaving. Setting up the loom. Weaving. Finishing. This course will be offered face-to-face, hybrid and online modalities.

**BEOF3402 – Loom weaving: Tapestries II.**

*Three credits. Three hours of lecture and laboratory experiences per week Prerequisites: ARCR 3401.*

The tapestry of different periods, especially in contemporary art. the tapestry as mural. Large looms. Advanced techniques. Emphasis on design and production of original tapestries. Analysis of problems confronted.

**BEOF3411 - Introduction to Bobbin Laces I.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Basic course in bobbin lace making. Lace design and construction. the production of insertion laces, lace edging, both narrow and wide, appliques, laces for collars, handkerchiefs, dollies, etc. the use of lace in dress design. the history and development of bobbin lace making. (c)

**BEOF3412 - Introduction to Bobbin Laces II.**

*Three credits. Three hours of lecture and laboratory experiences per week Prerequisites: ARCR 3411.*

Advanced techniques in lace construction. Original designs for clothing, accessories and applique. Analysis of design and production problems. Presentation, quality control, shop management and marketing. Development of bobbin lace in Puerto Rico.

**BEOF3425 - Introduction to Macrame.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Basic knots and techniques, their combination to achieve other knots. Emphasis on simple original design of useful elementary objects such as belts, planters, keyrings, purses, wall hangings, etc. This course will be offered face-to-face, hybrid an online- modalities.

**BEOF3431 - Basic Course in Four Harness Loom weaving.**

*Three credits. Three hours of lecture per week.*

Theory and practice of weaving on a four-harness loom. Construction and function of the loom. Selection, calculation and preparation of warp and weft. Dressing the loom. Pattern design and drafting. Weaves and techniques.

**BEOF3451 - Contemporary Batik I.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Batik: a hand applied method of textile decoration using melted wax for blocking and dye baths for coloring, includes study and practice in the use of wax with brushes, tjanting, stamps stencils; preparation and use of different types of dyes; origin and history of batik; color theory; principles of design: preparation of original work.

**BEOF3452 - Contemporary Batik II.**

*Three credits. Three hours of lecture and laboratory experiences per week Prerequisites: ARCR 3451.*

Study of design principles and their adaptation to batik. Experiments with waxes and other products for the reserves using tjanting, brush and stencils, under-painting, discharge dyeing, paper batik and different types of emphasis on originality in design. (c)

**BEOF3601 - Metal Casting - Part I.**

*Three credits. Two hours of lecture and one and a half hour of supervision per week.*

The origins of casting. the techniques and applications of sand casting and the lost wax process.

**BEOF3611 - Introduction to Jewelry Making I.**

*Three credits. Three hours of lecture per week.*

First experience in silversmithing. Study of the properties of different metals: gold, silver, bronze, cooper, etc. Experimentation with design processes, construction techniques, use of tools. Enameling. Creation of original projects in jewelry and silversmithing with precious and non-precious metals. (c) this course will be offered face-to-face, hybrid and online modalities.

**BEOF3612 - Introduction to Jewelry Making II.**

*Three credits. Three hours of lecture and laboratory experiences per week Prerequisites: ARCR 3611.*

Development of the art of the jeweler in different periods. Advanced techniques in jewelry making. Original designs. Analysis of problems in design and production. Presentation, quality control, shop management and marketing.

**BEOF3801 - Introduction to the Art of Bookbinding and Gilding.**

*Three credits. Prerequisites: CONSENT OF THE DIRECTOR.*

Basic techniques of bookbinding. General concepts of the history of bookbinding, its esthetics and technological development. Gilding; application of borders and lines, composition of titles and ornaments.

**BEOF3831 - Introduction to Calligraphy I.**

*Three credits. Three hours of lecture and laboratory experiences per week.*

History of calligraphy, development of alphabets, use of ink, pens and papers. Demonstrations and practice of basic calligraphy: chancery script. Introduction to book hand minuscule. Design, lay out and production of original works. This course will be offered face-to-face, hybrid and online modalities.

**BEOF3832 - Introduction to Calligraphy II.**

*Three credits. Three hours of lecture per week Prerequisites: ARCR 3831.*

Demonstration and practice of alphabets: uncial, foundational, and gothics. Design, illumination and production of original works in these styles face-to-face, online hybrid course. Effective for november 2020.

**EDCO3003 - Counseling Workshop I.**

*No credits. One hour of workshop per week Prerequisites: COED 3001-3002.*

Analysis of the students' personality traits and the educational vocational opportunities in u. P. R. and in the Puerto Ricans society in order to help the participants in the proper selection of occupational careers.

**ESPA3121 - Spanish for No Native Speakers Elementary.**

*3 credits. Prerequisites: PRUEBA DE UBICACION.*

3 credits. Prerequisites: PRUEBA DE UBICACION.

**ESPA3122 - Spanish for No Native Speakers Intermediate.**

*3 credits. Prerequisites: ESPA 3121.*

It is practical course in the use of the Spanish language within the context of the Puerto Rican society and culture. This course responds to the necessities of the growing population of students from diverse ethnic origins who are registered in our institution and whose knowledge of the Spanish language is at an intermediate level.

**ESPA3123 - Spanish as A Foreign Language.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3122 OR ITS EQUIVALENT.*  
Three credits. Three hours of lecture per week Prerequisites: SPAN 3122 OR ITS EQUIVALENT.

**ESPA3124 - Spanish Phonetics for Non-Native Speakers.**

*Three credits. Three hours of lecture per week.*  
Three credits. Three hours of lecture per week.

**INGL3091 - Practical Course in Conversation and Composition.**

*Three credits. Four hours of lecture per week Prerequisites: STUDENTS LIMITED TO 15 PER SECTION; SPECIAL FEE \$50 PER SEMESTER*

Intended for persons whose vernacular is not English and who, having acquired the fundamentals of this language, wish to enlarge their knowledge of oral English. This is an intermediate course which can be taken as a continuation of English 0091-0092. Special care will be given to oral-aural practice and to reading and writing.

**INGL3092 - Practical Course in Conversation and Composition.**

*Three credits. Four hours of lecture per week Prerequisites: SPECIAL FEE \$50 PER SEMESTER; STUDENTS LIMITED TO 15 PER SECTION; ENGL 3091.*

Intended for persons whose vernacular is not English and who, having acquired the fundamentals of this language, wish to enlarge their knowledge of written and oral English. This is an intermediate course which can be taken as a continuation of English 0091-0092. Special care will be given to oral-aural practice and to reading and writing.

**INGL3093 - Conversational English.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3092 OR ITS EQUIVALENT.*

Improvement of oral expression through the discussion of readings. This course also includes practice in the basic skills for the acquisition of vocabulary.

**INGL3094 - Conversational English for Professionals.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 3093 OR ITS EQUIVALENT.*

This course is designed to improve oral expression and increase vocabulary through reading and discussion of technical materials and literature. It will help students understand textbooks in English.

**UNIVERSITY OF PUERTO RICO**  
**RIO PIEDRAS CAMPUS**



**GRADUATE CATALOG 2022 - 2023**

Table of Contents

COLLEGE OF HUMANITIES.....3  
COLLEGE OF BUSINESS ADMINISTRATION.....100  
SCHOOL OF ARCHITECTURE .....121  
COLLEGE OF NATURAL SCIENCES.....134  
COLLEGE OF COMMUNICATION AND INFORMATION .....170  
COLLEGE OF SOCIAL SCIENCES.....183  
SCHOOL OF LAW .....255  
COLLEGE OF EDUCATION .....283  
GRADUATE SCHOOL OF PLANNING .....336  
COURSES WITH CREDIT – FREE ELECTIVES / DECEP.....356

## COLLEGE OF HUMANITIES

### **INTD6995 - Internship Program UPR-RP: First Graduate Work Experience.**

*Three credits. 20 hours of internship per week.*

First work-related immersion experience for graduate students. This supervised experience may be in governmental agency, public corporation, private agency, foundation or non-profit organization in pr. The experience may include tutoring sessions, workshop or classes for high school students, BA labs (for MA and PHD students) and BA courses (only for PhD students). Students will receive a stipend equivalent to a minimum-wage salary for 20 hours a week (300 [burs per semester) or 37.5 hours per week during the regular summer session. This course may be repeated without a stipend.

### **ESHI6010 - The Spanish Ballard.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER AND DOCTORATE STUDENTS*

Reading of Spanish ballads, their importance and influence in literature. Analysis of content, style, metrics, and language. 10-10-94

### **ESHI6019 - The European Novella and Legal Discourse.**

*Three credits. Prerequisites: LITE 3011, LITE 3012, LITE 3101.*

The study of the relationships between legal discourse and the European novella, and the analysis of the relationships between the novella and the fictitious case, paying attention to the way in which individual authors appropriate themselves of this discourse from classical antiquity with the purpose of either validating or challenging legal systems and the hierarchies that they sustain.

### **ESHI6022 - Race, Music and Literature in The Caribbean.**

*Three credits. One hour of lecture, one hour of discussion and one hour of seminar per week.*

Interdisciplinary study of racial representations in Caribbean music and literature. Borderline between European and American imperial powers, the Caribbean is a linguistic and racial diverse cultural area, interconnected by transits, fluxes and circuits of people, merchandises and cultures, departing from the shared experience of slavery and mestizaje, the course examines the definitions and representations of the Caribbean as a region and some particular cases. Presential course.

### **ESHI6039 - Tragedy in Contemporary Hispanic American Drama.**

*Three credits. One hour and half of lectures and one hour and half of discussion per week.*

Analysis of links between contemporary Hispanic-American drama and Greek myth and tragedy. Study of the transformations of classical works by Hispanic- American playwrights in dramas written by Argentineans, Chileans, Cubans, Dominicans, Puerto Ricans and Salvadoreans, among others.

### **ESHI6046 - Origins of The New Puerto Rican Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE SPANISH STUDIES DEPARTMENT*

This course studies the poetical works of more than twenty young writers most of them born between the years 1931-1938. 10-10-94

### **ESHI6048 - The Caribbean Between "letter" And Note: Literature, Music, And National Identity In The Hispanophone Caribbean.**

*Three credits. One hour lecture and two hours discussion per week Prerequisites: BEING A STUDENT GRADUATE OF THE CAMPUS OR AUTHORIZATION OF THE PROFESSOR.*

Analysis and discussion of the construction of national identities in the hispanophone Caribbean as represented in literary texts and popular music during the second half of the XX century. (c)

**ESHI6049 - Mystic-visionary Female Authors in Spain and Spanish America.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

Study of the strictly mystic-visionary discourse of nuns on both sides of the Hispanic Atlantic, from renaissance to late baroque. The theory of mystical phenomena will be discussed as the conceptual frame that serves as a starting point for the analysis of this literature with its own features dealing with religious writings. The list of authors includes well known peninsular female writer, Saint Teresa de Jesus, and four Spanish Americans "creole". Sor maria magdalena de lorravaquio muñoz (new Spain), saint rosa de santa maria (peru, sor ursula de jesus (peru), sor jeronima del espiritu santo (new reign of (granada), and mother francisca josefa de la concepcion de castillo (new reign of granada), among others. This course will be offered face-to-face, hybrid and online modalities.

**ESHI6055 - Theater of Rene Marques.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE SPANISH STUDIES DEPARTMENT*

Seminar devoted to Rene Marques drama and his ideological message to determine its possibilities. (c) 10-10-94

**ESHI6056 - The Poetry of Luis Llorens Torres.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE SPANISH STUDIES DEPARTMENT*

A study of the poetic works of Luis Llorens Torres and their importance in Puerto Rican literature. Lectures, accompanied by readings of selected works, oral reports and discussions. (c) 10-10-94

**ESHI6057 - The Art of Fiction in The Novels of Enrique A. Laguerre.**

*Three credits. Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

Analysis of Laguerre's novels in order to determine equilibrium between art and fiction. 10-10-94

**ESHI6058 - The Narrative Work of Carlos Fuentes.**

*Three credits. Three hours of lecture per week*

A general introduction to the narrative by Carlos Fuentes, the Mexican author, one of Latin Americas most significant literary voices. The study will discover his remarkable linguistic universe. 10-10-94

**ESHI6065 - Gender and Race in Puerto Rican Literature.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: TO BE A GRADUATE STUDENT OF ANY OF THE FOLLOWING FACULTIES*

A study of different literary movements, authors and texts of Puerto Rican literature through the critical frameworks of gender and race. The analysis of texts will examine the function of sexual and racial representations in the writing process, as well as their relation to the Puerto Rican cultural, political and social context.

**ESHI6069 - Recent Spanish-American Women's Narrative.**

*Three credits.*

Study of Spanish American women's literary canon through the analysis of the production of current women writers. The course will focus on themes such as literature and gender, conceptualization of women fictional characters, relation between literature and the body, and rewritings of history through women's perspective.

**ESHI6076 - Hispanic American Existentialist Theatre.**

*Three credits. Three hours of seminar per week.*

The course deals with the definition and history of Avant Garde theater in Hispanic America using theatrical readings and analyzing primary texts of representation of theatrical works of existentialism and the theater of the absurd.

**ESH16077 - Go and See: Spain in The Literature of Travel from The Middle Ages to The Present.**

*Three credits. Three hours of seminar per week.*

This course will examine the Spanish literature of travel from the middle age to the present. The selected chronology brings the reader's attention to the multiform character of travel writing and its proximity to other genres, including geography, history, art, autobiography, letters, and fiction. This course will pay special attention to the different forms of Spanish travel writing (diary, letters, journalistic article, traditional fiction, etc.) and major themes include the notion of homeland and abroad; observation and description, socio-political critique; the gaze of the traveler and his/her perception of landscape and space; travel as motif and metaphor; travelogue and the novel; and the literary creation of a textualized space.

**ESH16085 - Seminar: Ortega Y Gasset.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A seminar course designed to study the ideology and literary works of Ortega and his influence on twentieth century literature and culture, and his aesthetic values. 10-10-94

**ESH16086 - Peruvian Literature.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 4221-4222 AND PERMISSION OF THE DIRECTOR*

A survey of Peruvian literature from its beginnings to the present, through the study of fundamental authors and works. 10-10-94

**ESH16087 - Peruvian Literature.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 4221-4222 AND PERMISSION OF THE DIRECTOR*

A survey of Peruvian literature from its beginnings to the present, through the study of fundamental authors and works. 10-10-94

**ESH16089 - Debates on Hispanic American Literature.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Panoramic discussion of the most important debates on Hispanic American literature with an interdisciplinary perspective.

**ESH16095 - Spanish Mystical Literature.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3211-3212, SPAN 4251-4252 AND PERMISSION*

A course on Spanish mystical literature (and its possible semitic influences) including the works of San Juan de la Cruz, Santa Teresa de Jesus, Fray Luis de Leon, Juan de Los Angeles, and others. 10-10-94

**ESH16101 - Fundamentals of Spanish Linguistics.**

*Three credits. Three hours of seminar per week.*

Panoramic view of the evolution and characterization of Spanish. It guides the student through a political, literary and cultural historic overview of the Spanish-speaking world to identify the phonetic, morphological, syntactic and lexical changes from the middle age to the present. In the process, the student will become familiarized with linguistic terminology and that which pertains to the linguistic



**ESH16102 - Short Stories in Puerto Rico.**

*Three credits.*

This course analyzes Puerto Rican short stories, considering its historical development and its relations with stylistic and regional currents. Departing from the analysis of the theory, the course will study representative authors from different periods. It will focus on the thematic recurrent like the representation of the country and the city, the construction of the landscape, the influences of social circumstances and regional surroundings, among others.

**ESH16105 - Hispanic Linguistics.**

*Three credits. Two hours of lecture and one of discussion per week.*

Study the fundamental elements of linguistic theory and analysis of Spanish language, taking into account its phonetic, morphological, syntactical and semantic/pragmatic components, and its dialectic and sociolectic variants. Practical exercises in the analysis and identification of linguistic units.

**ESH16125 - Topics on Contemporary Spanish Literature.**

*Three credits. One hour of lecture and one hour of discussion per week.*

Analysis and discussion of current topics on Spanish contemporary literature since the post-franco era. It emphasizes the development of analytical skills through the critical discussion of the most recent literary works. The critical perspective and the selection of literary texts will depend on the chosen topic. The course may be repeated under different subtitles. 14-08-2002.

**ESH16206 - Patriarchs and Melancholics: Normative Masculinity in XXI Century Hispanic Narrative.**

*Three credits. Two hours of discussion and one hour of lecture per week.*

Exploration of the ideas of identity community and historical project proposed and discussed in the most recent Hispanic narrative related to the construction of heteronormative masculinity in Hispanic culture. The course centers on narratives by contemporary Spanish and Hispanic authors and includes international films relevant to the discussion.

**ESH16305 - Seminar on Literary Investigation Methods.**

*Three credits. One hour of discussion and two hours of seminar per week.*

A study of texts related to literary investigation methods, in order to delimitate, develop and review an investigation theme. Examination and discussion of the steps or stages in the investigation of an object of literary study. It includes a stage of analysis, the construction of a bibliography and the review of literature, as well as the formulation of a hypothesis and the application of theoretical concepts that result in a monograph, or novel interpretative writing in the field.

**ESH16396 - Spanish Moorish Aljamiado Literature.**

*Three credits. One hour of lecture and two hours of discussion per week.*

A study of clandestine aljamiado-Moorish literature, written by moors from Spain in the XVI century, written in Spanish with Arabic characters. This surprisingly hybrid-both Castilian and Arabic, written during the golden age- includes poems, religious treatises, legends, and historical testimonies of the tragic extinction of the last Muslims of Spain. This hybrid literature receives European and oriental sources, both thematically and formally.

**ESH16405 - Spanish Language in America.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A study of the Spanish language in America and its regional variations, based on historical and cultural changes. 10-10-94

**ESHI6406 - The Language of Puerto Rico.**

*3 credits. Three hours of lecture per week Prerequisites: FOR MASTER OF DOCTORATE STUDENTS.*

Synchronic study of the present characteristics of Puerto Rican Spanish, as a Caribbean variety. Identification and analysis of its phonetic-phonological, morphosyntactic, and lexical traits, based on recent research. Examination of the distinctive properties of Puerto Rican Spanish, considering the innovative nature of the dialectal zone to which it belongs, the language contact situation, and the sociolinguistic factors that condition its tendencies. This course will be offered in face-to-face, hybrid and online modalities.

**ESHI6409 - Dominican Literature: XX and XXI Century.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

A study of Dominican literature, with special emphasis on the literature of the twentieth and twenty first centuries. Main authors, works and trends will be analyzed as well as critical literature concerning them. The relations between Dominican and Puerto Rican literatures will also be studied.

**ESHI6421 - Spanish Literature of The Middle Ages.**

*Three credits. Three hours of lecture per week*

Lectures accompanied by the reading of selected works. 10-10-94

**ESHI6422 - Spanish Literature of The Middle Ages.**

*Three credits. Three hours of lecture per week*

Lectures accompanied by the reading of selected works. 10-10-94

**ESHI6429 - Spanish Romanticism in The Nineteenth Century.**

*Three credits. Three hours of lecture per week*

Spanish romanticism as an expression of life and as a literary phenomenon, embracing the essential aspects of the culture of the times. 10-10-94

**ESHI6430 - Spanish Realism in The Nineteenth Century.**

*Three credits. Three hours of lecture per week*

Realism as a literary and artistic movement of the nineteenth century and as a reaction against romantic subjectivism. (c) 10-10-94

**ESHI6431 - Galician Literature I.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

General panorama of the galician culture and literature, that includes from the thirteenth to twentieth century. 10-10-94

**ESHI6432 - Galician Literature II.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

General panorama of the Galician culture and literature, that includes from the thirteenth to twentieth century. 10-10-94

**ESHI6435 - Post Civil War Spanish Literature I.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: BE A MASTER OR DOCTORAL STUDENT*

A survey study of post-civil war Spanish literature from 1940 to 1970. Analytical reading of representative authors and works. 10-10-94

**ESHI6436 - Civil War Spanish Literature II.**

*Three credits. Three hours of lecture per week Prerequisites: BA, A MASTER, OR DOCTORAL STUDENT*

A survey of postmodern Spanish literature from 1970 to the end of the twentieth century. Analytical reading of representative authors and works. 10-10-94

**ESH16437 - Underdevelopment, Ideology and Literature in Latin America.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF B.A. OR MASTER STUDENT, WITH CONSENT OF THE DIRECTOR.*

Study of the foundations and sociological problems of Latin America literature and their relations with ideologies and underdevelopment. It comprises also the relations between literary production and social structure and production. 10-10-94

**ESH16438 - Underdevelopment, Ideology and Literature in Latin America.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF B.A. OR MASTER, WITH CONSENT OF THE DIRECTOR*

Study of the foundations and sociological problems of Latin America literature and their relations with ideologies and underdevelopment. It comprises also the relations between literary production and social structure and production. 10-10-94

**ESH16439 - Colonial Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS OF SPANISH STUDIES DEPARTMENT*

A panoramic study of Latino American colonial literature through textual analysis in order to prove the theory of "journey to the seeds" or the theory of return in twentieth century writings. Course offered face-to-face, hybrid and online. Effective August 2022. 10-10-94

**ESH16451 - Puerto Rican Dramatic Plays.**

*3 credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS.*

Study and analysis of the works of the main Puerto Rican dramatic writers within their historical context. Contemporary literary criticism dealing with these playwrights.

**ESH16452 - Puerto Rican Dramatic Plays.**

*3 credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS.*

Study and analysis of the works of the main Puerto Rican dramatic writers within their historical context and judge these works within the framework of contemporary literary criticism.

**ESH16455 - Contemporary Spanish Dramatic Plays.**

*3 credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS.*

Study of the main authors and plays in contemporary Spain.

**ESH16456 - Contemporary Spanish Dramatic Plays.**

*3 credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS.*

Study of the main authors and plays in contemporary Spain.

**ESH16465 - Central American Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS OF THE COLLEGE OF HUMANITIES*

A panoramic view of the literature of Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica and Panama, from its remote pre-Columbian origins, up to the present time. 10-10-94

**ESHI6466 - Central American Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS OF THE COLLEGE OF HUMANITIES*

A panoramic view of the literature of Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica and Panama, from its remote Precolombian origins, up to the present time. 10-10-94

**ESHI6467 - Guatemalan Literature in The Twentieth Century.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

A study of the development of Guatemalan literature of the twentieth century with special emphasis in the analysis of texts written by representative authors such as Arevalo Martinez, Asturias, Cardoza y Aragon, etc. 10-10-94

**ESHI6469 - Argentine Literature.**

*Three credits. Three hours of lecture per week Prerequisites: SPST 4221-4222 OR ITS EQUIVALENT*

A survey of Argentine literature from the colonial period to the present. 10-10-94

**ESHI6470 - Argentine Literature.**

*Three credits. Three hours of lecture per week Prerequisites: SPST 4221-4222 OR ITS EQUIVALENT*

A survey of Argentine literature from the colonial period to the present. 10-10-94

**ESHI6471 - Gaucho Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. AND M.A. STUDENTS WITH SPECIAL PERMISSION OF THE DIRECTOR OF THE SPANISH DEPARTMENT*

All aspects of gaucho art in the works of the most representative writers of poetry, drama, novel, the short story, and folklore. 10-10-94

**ESHI6472 - Gaucho Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. AND M.A. STUDENTS WITH SPECIAL PERMISSION OF THE DIRECTOR OF THE SPANISH STUDIES DEPARTMENT*

All aspects of gaucho arts in the works of the most representative writers of poetry, drama, novel, short story, and folklore. 10-10-94

**ESHI6473 - The Literature of The Antilles.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF MASTER OR DOCTORATE PROGRAM*

Literary currents of Cuba, Santo Domingo, and Puerto Rico and their relationship with the rest of Latin America. 10-10-94

**ESHI6474 - The Literature of The Antilles.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF MASTER OR DOCTORATE PROGRAM.*

Literary currents of Cuba, Santo Domingo, and Puerto Rico and their relationship with the rest of Latin America. 10-10-94

**ESHI6476 - Introduction to Twentieth Century Mexican Theater.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A study of the most important movements and authors of twentieth century Mexican drama. 10-10-94

**ESHI6477 - Introduction to Brazilian Literature.**

*Three credits. Three hours of lecture per week.*

A survey of Brazilian literature from the sixteenth century to the present day. Analysis of prominent writers and their works. Lectures, readings and text discussion. 10-10-94

**ESHI6478 - Introduction to Brazilian Literature.**

*Three credits. Three hours of lecture per week*

A survey of Brazilian literature from the sixteenth century to the present day. Analysis of prominent writers and their works. 10-10-94

**ESHI6481 - Mexican Literature.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR. FOR GRADUATE STUDENTS*

A survey of Mexican literature from its pre-Hispanic origins to the present time. 10-10-94

**ESHI6482 - Mexican Literature.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR. FOR GRADUATE STUDENTS*

A survey of Mexican literature from its pre-Hispanic origins to the present time. 10-10-94

**ESHI6486 - San Juan of The Cross: Western and Semitic Tradition.**

*Three credits. One hour of lecture and two for discussion per week.*

A study of St. John of the cross mystical poetry and prose, taking into account his literary dialogue with both Christian and oriental traditions.

**ESHI6487 - Literature and Folklore in Puerto.**

*Rico credits.*

Rico credits.

**ESHI6488 - Literature and Folklore in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER AND PH.D. STUDENTS*

Lectures, readings and analytical studies of Puerto Rican lore in prose and poetry. 10-10-94

**ESHI6489 - Literature and Society in Puerto Rico: Nineteenth and Twentieth Centuries.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER OR DOCTORATE STUDENTS*

Application of the different trends of sociology of literature in Puerto Rican's literature of the nineteenth and twentieth centuries. 10-10-94

**ESHI6490 - Literature and Society In Puerto Rico: Nineteenth And Twentieth Centuries.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER OR DOCTORATE STUDENTS*

Application of the different trends of sociology of literature in Puerto Rican's literature of the nineteenth and twentieth centuries. 10-10-94

**ESHI6495 - The Illustration in The New World Chronicles.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR*

Examination of one of the sub-genres within the new world chronicles, the illustrated chronicle, both in its European expression as well as in its American variants. 10-10-94

**ESHI6496 - New World Chronicles: From the Sixteenth to The Twentieth Centuries.**

*Three credits. Three hours of seminar per week Prerequisites: SPAN 4221-4222*

Study of the dialogue between colonial and contemporary literature in Latin America (sixteenth -twentieth centuries). 10-10-94

**ESHI6499 - Thesis for The Masters' Degree.**

*Three credits. Three hours of lecture per week Prerequisites: TO HAVE MET ALL THE COURSE REQUISITES AND EXAMS FOR THE MASTERS' DEGREE*

Submittal of research work done with the supervision of a faculty counselor. In its final requirement for the degree. 10-10-94

**ESHI6515 - Linguistics: A Historical and Critical Study.**

*Three credits. Three hours of lecture per week Prerequisites: SPST 4011-4012 AND 4205, OR THE EQUIVALENT*

The science of linguistics from ancient times to the present; with special attention to the relations between the various approaches, concepts, and schools. 10-10-94

**ESHI6516 - Linguistics: A Historical and Critical Study.**

*Three credits. Three hours of lecture per week Prerequisites: SPST 4011-4012 AND 4205, OR THE EQUIVALENT*

The science of linguistics from ancient times to the present; with special attention to the relations between the various approaches, concepts, and schools. 10-10-94

**ESHI6530 - Occidental and Semitic Tradition from The Jarchas to Gongora.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENT*

A study of the semitic influence (Hebraic and Arabic) in Spanish literature from its origins to the seventeenth century. Course offered face-to-face, hybrid and online. Effective August 2022. 10-10-94

**ESHI6531 - Occidental and Semitic Tradition from The Jarchas to Gongora.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A study of the semitic influence (Hebraic and Arabic) on Spanish literature from its origins to the seventeenth century. 10-10-94

**ESHI6539 - The Picaresque Novel.**

*Three credits. Three hours of lecture per week.*

A study of the development of the picaresque novel. Critical analysis of the most important works. 10-10-94

**ESHI6540 - The Picaresque Novel.**

*Three credits. Three hours of lecture per week*

A study of the development of the picaresque novel. Critical analysis of the most important works. 10-10-94

**ESHI6541 - Spanish Morphosyntax.**

*Three credits. Three hours of seminar per week.*

Presentation and study of the morphosyntax level of the language, applied to Spanish and its relationship with the phonologic, semantic, and pragmatic levels, according to newest models.

**ESHI6545 - The Spanish Essay in The 16th And 17th Centuries.**

*3 credits. Three hours of lecture per week.*

In this course we will study the humanist beliefs that developed during Spain's golden age, through different non-fictional texts, pertaining to a variety of genres and topics, which constitute the beginnings of the Spanish essay. We will study historic, religious, philosophic, Erasmite, ascetic, and scientific works written in a diversity of genres such as the letter, miscellaneous works, dialogs, annotations, discourses, and others, whether published or clandestine. By means of these works we will get to know the thinking of the

inquisitorial Spain of the golden age, as expressed by such authors like Fray Antonio Guevera, the Valdes brothers, Fray Luis de Leon, Santa Teresa de Jesus, Quevedo, Miguel de Molinos, anonymous authors, Moriscos, among others, who influenced the greatest writers of the golden age.

**ESH16546 - The Spanish Essay Through the Generation Of '98.**

*Three credits. Three hours of lecture per week*

Analysis of the main ideas of the most representative essayists of Spain from the nineteenth century, with a brief explanation of their forerunners of the seventeenth and eighteenth centuries. 10-10-94

**ESH16547 - The Spanish Short Story.**

*Three credits. Three hours of lecture per week Prerequisites: FOR PH.D. OR MASTER STUDENTS IN SPANISH STUDIES*

A historical and critical view of the short story in Spain from its medieval origins to its present situation. Analysis of texts showing the evolution of this literary form. 10-10-94

**ESH16548 - Spanish Literature and Journalism in The Nineteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

Analytical study of nineteenth century Spanish literature and journalism with special emphasis in authors like Mesonero, Alarcon, and Becquer. 10-10-94

**ESH16551 - Seminar: Contemporary Puerto Rican Poetry.**

*Three credits. Three hours of lecture per week*

Puerto Rican contemporary poetry, graduate seminar to discover new trends in our poetry and to examine critically its traditional conceptions. The works of our principal contemporary poets will be analyzed. 10-10-94

**ESH16552 - Seminar: Contemporary Puerto Rican Poetry.**

*Three credits. Three hours of lecture per week*

Puerto Rican contemporary poetry, graduate seminar to discover new trends in our poetry and to examine critically its traditional conceptions. The works of our principal contemporary poets will be analyzed. 10-10-94

**ESH16554 - Seminar: Sociology of Latin American Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

The explanation and study of the basic concepts developed by the sociology of literature. The application of these concepts to Latin American literature. 10-10-94

**ESH16555 - Twentieth Century Nicaraguan Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A study of Nicaraguan poetry from Ruben Dario to the present, with special emphasis on main poets such as Salomon de la Selva, Alfonso Cortes, coronel Urtecho, Pablo Antonio Cuadra, Carlos Martinez Rivas, and Ernesto Cardenal. 10-10-94

**ESH16556 - Golden Age Lyric Poetry and Literary Tradition.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 4251-4252 Y SPAN 3211-3212*

An in-depth study of the great lyric figures of golden age literature: Garcilaso, Fray Luis de Leon, San Juan de la Cruz, Herrera, Lope, Gongora, Quevedo, among others. The course will work with specific textual analysis and with study of an ample critical bibliography. (c) 10-10-94

**ESHI6557 - Contemporary Latin American Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: BE A GRADUATE STUDENT*

The poetic vanguard of Latin America which examine of this literary phenomenon since modernism and post-modernism. The vanguard movements and its poetic repercussion up to the present. Face-to-face, hybrid and online course. Effective January 2021. 10-10-94

**ESHI6558 - Poetry in Puerto Rico: Decade Of 2000.**

*Three credits. One hour of lecture and two hours of discussion per week.*

Study of the poetics and Puerto Rican poetry in the twentieth century. Theoretical texts about the poetry will be discussed.

**ESHI6559 - Graduate Research.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Required for all candidates for the master's degree. Designed to guide the candidate in the preparation and working of the thesis. 10-10-94

**ESHI6560 - Graduate Research.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Required of all candidates of the master's degree. Designed to guide the candidate in the preparation and working of the thesis. 10-10-94

**ESHI6561 - The Novel in Spanish America.**

*Three credits. Three hours of lecture per week*

Study of trends in the Spanish-American novel from its beginnings to the present. Critical analysis of the most important works. 10-10-94

**ESHI6562 - The Novel in Spanish America.**

*Three credits. Three hours of lecture per week*

Study of trends in the Spanish-American novel from its beginnings to the present. Critical analysis of the most important works. 10-10-94

**ESHI6563 - The Picaresque Novel in Spanish America.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS WITH PERMISSION OF THE DIRECTOR*

Examination of the picaresque novel in Hispanic America by means of a comparative analysis of the genre as evidence by the study of its representative works. 10-10-94

**ESHI6565 - The Essay in Spanish America.**

*Three credits. Three hours of lecture per week*

A study of trends of the essay in Spanish America. Critical analysis of the most important works. (c) 10-10-94

**ESHI6566 - The Essay in Spanish America.**

*Three credits. Three hours of lecture per week*

A study of trends of the essay in Spanish America. Critical analysis of the most important works. (c) 10-10-94

**ESHI6567 - The Art of The Short Story in Spanish America.**

*Three credits. Three hours of lecture per week.*



Theory of the short story as set forth by modern critics. A critical analysis of the short story in Spanish America in the twentieth century. 10-10-94

**ESHI6572 - The Mexican Essay.**

*Three credits. Three hours of lecture per week*

The Mexican essay from its origins to our own times with special emphasis on representative authors. 10-10-94

**ESHI6573 - Narrative Techniques In Contemporary Spanish-American Novel.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER OR DOCTORATE STUDENTS*

A study of traditional and experimental techniques in the contemporary Spanish-American novel. (c) 10-10-94

**ESHI6575 - Theoretical Reading of Latin American Literary Texts.**

*Three credits. Two hours of lecture and one hour of laboratory work per week Prerequisites: B.A. IN SPANISH STUDIES OR COMPARATIVE LITERATURE OR BE A GRADUATE STUDENT*

To establish critical models using theoretical systems applied to the analytical reading of latin American texts. 10-10-94

**ESHI6580 - Narrative Literature in Puerto Rico.**

*Three credits. Three hours of lecture per week*

History of the novel and short story in Puerto Rico from 1843 to the present. 10-10-94

**ESHI6585 - The Puerto Rican Essay.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER AND PH.D. STUDENTS*

A study of the development of the Puerto Rican essay and analysis of the most important authors and texts. 10-10-94

**ESHI6586 - Literature and Public Sphere In Puerto Rico.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion 'per week.*

This course is an overview of specific publications of the xix and xx centuries in Puerto Rico to make a map of the type of public sphere that is envisioned in them. We will study how Puerto Rican writers have used their texts as a democratizing instrument. Due to the hard censorship during the 19th century in the island, writing and speaking publicly were difficult tasks. Therefore, we will analyze the different discursive strategies writers deployed to create this sphere of debate and also make visible the modernizing effect writers expected from its creation. Upon studying the 20th century, we will examine changes imposed by both, the us invasion and the arrival of industrial modernity. 13-08-02

**ESHI6587 - Costumbrismo and Criollismo In Puerto Rican Literature.**

*Three credits. Three hours of lecture per week*

A study and discussion of this theme as an aesthetic and cultural manifestation in Spanish America through the works of various Puerto Rican authors: types, customs, traditions, folklore. Lectures, reports, readings and text discussions. 10-10-94

**ESHI6588 - Costumbrismo and Criollismo in Puerto Rican Literature.**

*Three credits. Three hours of lecture per week.*

A study and discussion of this theme as an aesthetic and cultural manifestation in Spanish America through the works of various Puerto Rican authors: types, customs, tradition, folklore. Lectures, reports, readings and text discussion. 10-10-94

**ESHI6597 - Spanish Meter and Rhythm.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER AND PH.D. STUDENTS*

Theoretical and practical analysis of the different rhythms and metrical schemes of Spanish literature from the middle age to the present. Lectures, readings and laboratory practices. 10-10-94

**ESHI6598 - Spanish Meter and Rhythm.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER AND PH.D. STUDENTS*

Theoretical and practical analysis of the different rhythms and metrical schemes of Spanish literature from the middle age to the present. Lectures, readings and laboratory practices. 10-10-94

**ESHI6627 - Don Quixote.**

*Three credits. Three hours of lecture per week*

Commented reading of don quixote with a view to determining its aesthetic value. 10-10-94

**ESHI6628 - Don Quixote.**

*Three credits. Three hours of lecture per week*

Commented reading of don quixote with a view to determining its aesthetic value. 10-10-94

**ESHI6631 - The Twentieth-century Spanish Novel.**

*Three credits. Three hours of lecture per week*

A study of the Spanish novel of the twentieth century, from the generation of '98 to contemporary production. 10-10-94

**ESHI6632 - The Twentieth-century Spanish Novel.**

*Three credits. Three hours of lecture per week*

A study of the Spanish novel of the twentieth century, from the generation of '98 to contemporary production. 10-10-94

**ESHI6633 - The Novels of Galdos.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF M.A. OR PH.D.*

A seminar on the problems and interpretations of the novels of Benito Perez Galdos. Reading, analysis and reports on the several aspects of his works. 10-10-94

**ESHI6634 - The Novels of Galdos.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF M.A. OR PH.D.*

A seminar on the problems and interpretations of the novels of Benito Perez Galdos. Reading, analysis and reports on the several aspects of his works. 10-10-94

**ESHI6636 - Azorin.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER AND DOCTORATE STUDENTS IN THE SPANISH STUDIES DEPARTMENT*

Seminar in the literary production of Azorin in the light of its Spanish historical and cultural context, its aesthetic values and contributions to Spanish contemporary literature. 10-10-94

**ESHI6637 - Short Novel-golden Age.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: SPAN 3211-3212, 4251-4252; BE A GRADUATE STUDENT; PERMISSION OF THE PROFESSOR FOR UNDERGRADUATE STUDENTS*

Analysis of the development of the short novel in the golden age, including its Italian precedents (Boccaccio, Cintio and Bandello) and three Spanish writers who cultivated this literary genre: Miguel de Cervantes, Iope de Vega and Maria de Zayas y Sotomayor. 10-10-94

**ESH16665 - Jorge Luis Borges and His Theory of Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

An analysis of Borges's theory of language and the literature phenomenon. 10-10-94

**ESH16666 - Modernism and Modernity.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

The presence of urban sensibility in the poetics of three representatives of modernism: Marti, Dario, Lugones. 10-10-94

**ESH16683 - The Generation Of 1930 in Puerto Rican Literature I.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

Critical study of the authors who compose the generation of 1930; their aesthetic values and importance as a literary group in twentieth-century Puerto Rican literature. 10-10-94

**ESH16684 - The Generation Of 1930 in Puerto Rican Literature II.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR GRADUATE STUDENTS*

Critical study of the authors who compose the generation of 1930; their aesthetic values and importance as a literary group in twentieth-century Puerto Rican literature. 10-10-94

**ESH16695 - Dramatic Semiotic.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

Interpretation and analysis of the theater, with theoretical emphasis on the theory of language, the semiotics of culture, literature drama using golden age and Latin American texts. 10-10-94

**ESH16705 - Problems in Puerto Rican Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

Study of outstanding problems in Puerto Rican literature as presented to investigators and scholars. Lectures and discussions, analysis of typical problems, and readings of theoretical works about such problems. 10-10-94

**ESH16811 - Latin American Theater.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS OF THE SPANISH STUDIES DEPARTMENT*

Study of the development of Latin American theater, its authors, outstanding works and the literary criticism surrounding this genre. 10-10-94

**ESH16812 - Latin American Theater.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS OF THE SPANISH STUDIES DEPARTMENT*

Study of the development of Latin American theater, its authors, outstanding works and the literary criticism surrounding this genre. 10-10-94

**ESH16895 – Thesis for The Masters’ Degree.**

*No credits.*

Preparation of thesis masters’ degree. 10-10-94

**ESHI6896 - Thesis Continued For Master' Degree.**

*No credits. Prerequisites: SPST 6895*

Continuation of preparation of thesis for the masters' degree. The student will be able to repeat the course for up to a maximum of 4 semesters according to an official communication from the graduate program of the faculty of humanities. 10-10-94

**ESHI6997 - Seminar on Hispanic Literatures.**

*One to Six credits. Discussion one hour and two-hour seminar per week.*

One to Six credits. Discussion one hour and two-hour seminar per week.

**ESHI8001 - Julio Cortazar.**

*Three credits. Three hours of seminar per week.*

Seminar course. Study of the literary work of Julio Cortazar, one of the most important Latin American writers of the twentieth century. Representative texts of different literary genres cultivated by him as short stories, novels, poetry and theater are examined from various critical perspectives which allow to appreciate his important contribution to contemporary Spanish-American literature.

**ESHI8002 - The Literary Work of Jose Asuncion Silva.**

*Three credits. Three hours of seminar per week*

Study of literary work of Jose Asuncion Silva. The relevance of his poetry and narrative will be highlighted in the context of Spanish American modernism.

**ESHI8005 - Two Galician Writers: Rosalia De Castro And Emilia Pardo Bazan.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

A study of the most representative works in prose and poetry of these Galician writers. 10-10-94

**ESHI8006 - Alfonso Reyes.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 3211-3212, SPAN 4221-4222 OR PERMISSION OF THE DIRECTOR OF SPANISH STUDIES DEPARTMENT*

Comprehensive study of the literary personality of this Mexican humanist, focused mainly on his approach to Hispanic letters. Alfonso Reyes will be treated as essayist, narrator, poet, researcher, literary theorist and critic. 10-10-94

**ESHI8007 - Garcilaso De La Vega And San Juan De La Cruz.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF SPANISH STUDIES*

In depth study of the work of two relevant golden century Spanish poets, Garcilaso de la Vega and St. John of the cross. The poetry of the two authors is contrasted with regard to their principal literary influences: classical Italian influence in Garcilaso's case, classical and semitic (Hebrew and Arabic) in the case of St. John of the cross. 10-10-94

**ESHI8008 - The Baroque Style in The Contemporary Cuban Novel.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF SPANISH STUDIES DEPARTMENT*

The function of the baroque style in contemporary Cuban prose fiction. 10-10-94

**ESHI8009 - Contemporary Spanish Literature: Novel, Drama.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS FROM*

#### SPANISH STUDIES DEPARTMENT

Seminar in post-civil war Spanish literature (1940 to the present). Representative authors and works of this period. Face-to-face, hybrid and online course. Effective January 2021. 10-10-94

#### **ESHI8010 - Juan Ramon Jimenez, Poetry and Poetics.**

*Three credits. Three hours of seminar per week.*

A study of the poems and poetics of Nobel prize laureate in literature, Juan Ramon Jimenez, in terms of the published works or through the study of the legacy of documents he left to the UPR. These include manuscripts of different versions of his poems, notes on his reflections on different subjects, and letters to and from friends and colleagues.

#### **ESHI8015 - Twentieth-century Argentine Poetry.**

*Three credits. Three hours of lecture per week*

A panoramic vision of Argentine poetry during the twentieth century, its different tendencies and styles, principal works and authors. 10-10-94

#### **ESHI8016 - Contemporary Spanish Literature: Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS OF THE SPANISH STUDIES DEPARTMENT*

A seminar course in Spanish poetry from the generation of 1940 to the present. Readings, lectures, oral and written reports on the most representative literary movements, authors and works of this period. 10-10-94

#### **ESHI8017 - The Poetry of Julia De Burgos.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

Study of the poetic work of Julia de Burgos and its value in Puerto Rican literature. Lectures accompanied by readings of selected works, oral reports and discussion. Course offered face-to-face, hybrid and online. Effective August 2022. 10-10-94

#### **ESHI8018 - The Poetry of Evaristo Ribera Chevremont.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

Analytical study of his poetry through his books, epochs and themes. 10-10-94

#### **ESHI8019 - The Poetry of Luis Pales Matos.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

A study of the work of Luis Pales Matos within its literary contexts: modernism, post-modernism, Avant Garde literature, and afro-Antillean poetry. 10-10-94

#### **ESHI8020 - Linguistic Problems of Contemporary Spanish in Puerto Rico.**

*Three credits. Three hours of seminary per week Prerequisites: ESHI 6406 THE SPANISH OF PUERTO RICO OR ITS EQUIVALENT. REQUISITES*

Analysis of contemporary Spanish in Puerto Rico considering its formation and evolution during the 20th century. Special attention will be given to the most recent problems arising from its contact with the English language. The linguistic policy, language legislation, first language acquisition and the learning; and learning of English as a second language are some of the topics to be considered in this course. (c)

#### **ESHI8025 - The Poetry of Ruben Dario.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

Study of Ruben Dario's poetry, with emphasis on its importance to the history of Hispanic poetry in general. 10-10-94

**ESH18026 - The Literature of Puerto Rican Emigration.**

*Three credits. Three hours of lecturer per week Prerequisites: GRADUATE STUDENTS (M.A. OR PH.D. PROGRAMS)*

A study of Puerto Rican narrative literature concerning the emigration to the United States. 10-10-94

**ESH18027 - Linguistic Fieldwork.**

*Three credits. One hour of lecture and two hours of investigation per week.*

This is a fieldwork graduate course of Spanish that studies different theoretical models of linguistic description, introspective, analytical, experimental, its relevance to the study of Spanish and the methodological principles and strategies of fieldwork. Data is collected in the field in a location in a Caribbean or Latin American Spanish speaking community. The linguistic analysis of phonological, lexical, morphosyntactic and pragmatic components of the corpus will allow us to explore the semantic and pragmatic roles and the characteristics of oral language culturally contextualized while fieldwork skills and competency is developed and hypothesis and previously presented theories about Spanish are put to test.

**ESH18028 - Spanish Pragmatics.**

*Three credits. One hour and half lecture, one hour of discussion and half an hour of investigation per week.*

An advanced graduate level course in Spanish pragmatics. Explores current philosophical and linguistic models such as, Morris-Carnap, Wittgenstein, Austin and Searle, Grice, Anscombe and Ducrot, Halliday, Vandijk and Blakemore that relate language as an abstract system to language use. It's relevance to the study of Spanish will be determined. Some of the more relevant subjects of study of pragmatics will be approached, such as deixis, implicature and entailment, presupposition, and intentionality. Courtesy, relations of power and conversation analysis will be done using a sample of colloquial conversation. Face-to-face, hybrid and online course. Effective January 2021.

**ESH18029 - Latin American Literary Theory and Criticism.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week.*

A study of the historical development of literary theory and criticism in Latin America during the 20th century through its key texts. Emphasis is made on the specificity of the literatures of Latin America as well as on their value and historical development. The rhetorical and contextual components of these texts will be carefully examined. Critical and theoretical essays by Pedro Henriquez Ureña, Alfonso Reyes, Octavio Paz, Noe Jitrik, Angel Rama, Josefina Ludmer and Antonio Cornejo polar will be studied.

**ESH18031 - Medieval Castilian Prose I.**

*Three credits. Three hours of discussion per week*

A study of medieval Castilian prose in the historical, didactic and legal works, exempla and literature in the form of sermons. 10-10-94

**ESH18032 - Medieval Castilian Prose II.**

*Three credits. Three hours of discussion per week*

A study of medieval Castilian prose in romances of chivalry, sentimental novels, chivalric histories, books of travel and cosmographies, poetics, exegesis and grammar. 10-10-94

**ESH18035 - The Narrative Works of Jose Donoso.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: BE A GRADUATE STUDENT OF ANY GRADUATE PROGRAM OF THE FACULTIES OF HUMANITIES, EDUCATION, SOCIAL SCIENCES, COMMUNICATION OR PERMISSION OF THE PROFESSOR.*

Analysis of the most prominent narrative texts by Jose Donoso, emphasis will be on their relevance to the

Spanish American novel. Critical works on the development of the novel of the Spanish American boom will be discussed, as well as studies on Donoso's work of fiction.

**ESHI8036 - Seminar on Current Topics in Hispanic Linguistics.**

*One to 3 credits. Three hours of seminar per week.*

Seminar in which varied or novel topics in Hispanic linguistics are approached from a current perspective. This variable-topic and variable-credit course can be repeated up to a maximum of 15 credits with different topics of study each time that the student enrolls in it.

**ESHI8037 - Hispanic Sociolinguistics.**

*Three credits. Three hours of seminar per week Prerequisites: ESHI6105 OR ITS EQUIVALENT*

Study of the theoretical and methodological postulates of sociolinguistics and their application to different varieties of Spanish. Synchronic analysis of the links among phonetic, morphosyntactic, and lexical-semantic variants of Spanish, as well as the linguistic, sociolinguistic, and pragmatic factors conditioning them. Students will design and develop a project related to socio- linguistic variations in Spanish.

**ESHI8101 - Second Language Acquisition.**

*Three credits. Three hours of seminar per week.*

Seminary course. Introduction to the scientific study of second language (L2) acquisition and the fundamental principles of acquisition put forward in recent theoretical proposals. Examination of the underlying processes of L2 acquisition and the ways in which it differs from first language (L1) acquisition. Study of the influence of internal and external factors on L2 acquisition. Analysis of the implications of L2 acquisition research for the teaching of second languages-particularly Spanish and English-in the classroom.

**ESHI8102 - Bilingual Processing.**

*Three credits. Three hours of seminar per week.*

Seminary course. Examination of the linguistic development of bilinguals, vis-a vis that of monolinguals. Study of conceptual representation and lexical and sentential processing, taking into account the cross-linguistic interaction that is present in the bilingual mind. Discussion of the cognitive and neural consequences of bilingualism, as well as the changes in representation, organization, and the mental mechanisms that arise from bilingualism. Evaluation of the main methodological techniques used in research on the child and adult bilingualism, with a special emphasis on situations of bilingualism that include Spanish.

**ESHI8415 - Spanish Historical Grammar.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A diachronic and synchronic study of Spanish phonetics, phonology, morphosyntax's and functional grammar. 10-10-94

**ESHI8416 - Spanish Historical Grammar.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF THE MASTER AND DOCTORAL PROGRAM*

Study of the origins, development and present state of the phonetic, morphological and syntactical aspects of the Spanish language. 10-10-94

**ESHI8431 - Castilian Medieval Theater.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*

A study of Castilian medieval theater from its origins to Juan del Encina and Lucas Fernandez, taking into account its Latin liturgical antecedents and its prolongation in the codice de autos viejos. 10-10-94

**ESHI8434 - The Generation Of '98.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A critical study of the authors who compose this generation and their cultural background. Analysis of their aesthetic values, considering their importance as a group which renovates hispanic literature of the twentieth century. 10-10-94

**ESHI8435 - The Generation Of '98.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A critical study of the authors who make up this generation and their cultural background. Analysis of their aesthetic values, considering their importance as a group which reinvites Hispanic literature of the twentieth century. 10-10-94

**ESHI8436 - The Generation Of 1970s in Puerto Rican Literature.**

*Three credits. One hour lecture and two hours discussion per week.*

Close reading and analysis, paying attention to content and form, of written texts produced by writers of the so called "generation of the 1970s" of the twentieth century. The ways in which academics have analyzed these texts in dialogue with the generations of the 1940s and 50 and latter writings will also be examined.

**ESHI8447 - Introduction to The Poetry of Gongora.**

*Three credits. Three hours of lecture per week*

Reading and discussion of the poetic works of Gongora. Examination of texts, lectures, reports and literary criticism of Gongora's literary output and evaluation of his poetry and literature. 10-10-94

**ESHI8448 - Introduction to The Poetry of Gongora.**

*Three credits. Three hours of lecture per week*

Reading and discussion of the poetic works of Gongora. Examination of texts, lectures, reports and literary criticism of Gongora's literary output and evaluation of his poetry and literary art. 10-10-94

**ESHI8453 - The Poetic Generation of 1927.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

An analytical study of the Spanish poets of the 1927-1936 generation, taking into account the Avant guard poetry. Lectures, textual analysis, oral and written reports. 10-10-94

**ESHI8463 - Narrative Works of Alejo Carpentier.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF MASTER OR PH.D.*

Themes, structure style of this Cuban author. 10-10-94

**ESHI8465 - Seminar: Orientalism and Identity in Spanish Literature.**

*Three credits. Three hours of seminar per week.*

This course presents the subject of orientalism and identity in the beginnings of Spanish literature and its rebirth in the XX and XXI century. Works and authors of these times will be studied in order to analyze the beginning, the changes, and the expositions of the Spanish identity in their relation with the orientalism.

**ESHI8466 - Seminar on Advanced Literary and Cultural Theory.**

*Three credits. Three hours of lecture per week Prerequisites: TO BE A GRADUATE STUDENT ON ANY GRADUATE PROGRAM AT THE RIO PIEDRAS CAMPUS.*

A careful study of representative texts from one school of literary and cultural theory of the 20th and 21st centuries. This course begins with a consideration of the fundamental elements of literary or cultural theory. The aim of the course is to strengthen the theoretical training of graduate students. This is a monographic



course: it is taught each semester, and it will explore a different school of theoretical thought. The students can take up to a maximum of 6 credits with different themes of study each time he or she enrolls.

**ESHI8479 - Contemporary Antillean Literature.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*

A study of contemporary Antillean literature through the reading, analysis and textual explanation of representative authors and works. 10-10-94

**ESHI8509 - Advanced Stylistics.**

*Three credits. Three hours of lecture per week*

Study of affective and imaginative aspects of the spoken and literary language. 10-10-94

**ESHI8510 - Advanced Stylistics.**

*Three credits. Three hours of lecture per week*

Study of affective and imaginative aspects of the spoken and literary language. 10-10-94

**ESHI8513 - Literary Criticism: Theory and Practice.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

A study of literary theory: concept, history, and major contemporary tendencies. 10-10-94

**ESHI8519 - Hispanic Dialectology.**

*Three credits. Seven and a half hours of lecture per week Prerequisites: SPECIALIZED SPANISH COURSES*

Historical account of the origin, formation, and evolution of linguistically conservative dialects. Analysis of the present state and the use of innovational dialects. 10-10-94

**ESHI8525 - Medieval Spanish Songs.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*

A diachronic and synchronic study of the songs and fragments of medieval Spanish epics and El cantar del Mio Cid, which have been preserved. Besides conferences and lectures, the course will offer training in philological and paleographic techniques and will evaluate their aesthetic and historical values 10-10-94

**ESHI8527 - Four Lyric Poets of The Twentieth Century: Unamuno, Machado, Juan Ramon Jimenez and Leon Felipe.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR GRADUATE STUDENTS*

A study of four great representative Spanish poets of our century. 10-10-94

**ESHI8537 - The Theme Of "contempt For Court" In the Sixteenth and Seventeenth Centuries.**

*Three credits. Three hours of lecture per week*

The course examines most of the golden age poems in which the "contempt for court" finds expression. The first part is dedicated to the study of classical authors and masterpieces which are related with the birth and development of this sentiment until the golden age. 10-10-94

**ESHI8539 - Seminar: theory of the Picaresque Genre.**

*Three credits. Two hours of seminar and one of discussion per week.*

Seminar about the theory of picaresque genre since the socio- historical through the structural model (Guillen, Wicks, Cabo Aseguinolosa, Bataillon, Parker, Moreno, Baex, among others), through the analysis of fundamental works that present the beginning, the culmination and the decline of this genre in Spain. This course will be offered face-to-face, hybrid and online modalities. Effective August 2023.

**ESHI8540 - Seminar: modalities of The Spanish Picaresque: continuations, Sequels and The Female Picaresque.**

*Three credits. Two hours of seminar and one of discussion per week.*

Seminar about the continuations and sequels of the Spanish picaresque novel its influence in other Spanish writers, and the breaking of the barrier of this genre with the birth of the female picaresque.

**ESHI8542 - Iberian Primitive Lyrics and The Traditional Cancioneros.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A study of Iberian primitive lyrics and poetry of the traditional cancioneros. 10-10-94

**ESHI8543 - Spanish Poetry of The Eighteenth Century.**

*Three credits. Three hours of lecture per week*

Study and analysis of a representative selection of eighteenth-century Spanish poetry in the light of the historical, cultural, and aesthetic background of the period. 10-10-94

**ESHI8544 - Spanish Prose and Drama Of The Eighteenth Century.**

*Three credits. Three hours of lecture per week*

Critical study of ideas and attitudes of eighteenth-century Spain as reflected in representative prose writers and in outstanding dramas of the period. 10-10-94

**ESHI8549 - The Subject of Language in Unamuno.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENT OR FOURTH YEAR STUDENTS*

Study of an essential aspect of Unamuno's intellectual life: his constant concern with language: its mission, its significance in the development of human life and its cultural implications. The theme of language in Unamuno will be studied in its three basic aspects: as communication, as a medium of expression and as an instrument of artistic creation. 10-10-94

**ESHI8557 - The Theater of Lope De Vega.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

An introduction to the dominant themes and the theoretical study of lope de Vega's theater by means of a systematic analysis of his most representative works. 10-10-94

**ESHI8559 - The Theater of Calderon De La Barca.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A study of Calderon's theatrical works as they reflect the Spanish baroque period. Lectures, reading, reports on his works. 10-10-94

**ESHI8564 - The Theater of Florencio Sanchez.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A study of the theater of Florencio Sanchez and of its socio-cultural environment. 10-10-94

**ESHI8568 - The Modernist Novel in Spanish America.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR GRADUATE STUDENTS*

Analysis and interpretation of novels written by representative modernist authors in Spanish America. 10-10-94

**ESHI8570 - The Contemporary Peruvian Novel.**

*Three credits. Three hours of lecture per week Prerequisites: TWO COURSES IN SPANISH AMERICAN*

## LITERATURE

Traditional elements of Peruvian narrative. Oral antecedents. Pre-Hispanic characteristics. The vision of the chronicles, from Garsilaso to Palma. Modern short stories, Inca legends, fantasy, and regional aspects. The indigenous and its derivations. A study of Martin Adan, c. Alegria, Jose Maria Argueda, Julio Ribeiro, and Mario Vargas Llosa. 10-10-94

### **ESHI8575 - The Poetry of Gabriela Mistral.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*  
An analytical study of the poetic works of this Chilean poet. Lectures, oral and written reports. 10-10-94

### **ESHI8576 - The Prose of Gabriela Mistral.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*  
Study of the prose works of Gabriela Mistral, emphasizing the human values through readings and discussion of texts. 10-10-94

### **ESHI8577 - The Contemporary Spanish Essay.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*  
The twentieth-century essay: principal authors and representative essays. 10-10-94

### **ESHI8586 - The Naturalist Novel in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS.*  
Naturalism in Puerto Rico: Spanish and French influence, historical and literary development and interpretation and analysis of main Puerto Rican naturalist novels. This course will be offered face-to-face, hybrid and online modalities. Effective August 2022. 10-10-94

### **ESHI8589 - Magic Realism in Spanish-American Literature and Criticism.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*  
Analysis and definition of the concept of magic realism and its application to both fiction and criticism. 10-10-94

### **ESHI8591 - Modernism in Puerto Rican Literature.**

*Three credits. Three hours of lecture per week*  
From modernism to the avant-garde literary movements of the postwar era in Puerto Rico. Introduction and development of modernism and origins of the new movements with lectures and discussion texts of the most representative authors 10-10-94

### **ESHI8592 - Modernism in Puerto Rican Literature.**

*Three credits. Three hours of lecture per week*  
From modernism to the Avant. Guard literary movements of postwar era in Puerto Rico. Introduction and development of modernism and origin of the new movements with lectures and discussion texts of the most representative authors 10-10-94

### **ESHI8593 - Contemporary Puerto Rican Literature.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*  
A study of contemporary Puerto Rican letters through the reading and analysis of representative authors and works. 10-10-94

### **ESHI8595 – Structure and Society In Contemporary Spanish American Novel.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. OR PH.D. STUDENTS*

A study of present day sociological and structural trends in literary criticism applied to the analysis of several current Latin American novels. 10-10-94

**ESHI8597 - Jose Maria Arguedas and The Nativistic Theme.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

Study of the literary works, technique, and style of this twentieth century Peruvian author, and his relationship with the nativist theme in the Latino American novel. 10-10-94

**ESHI8599 - Dissertation for The Doctoral Degree.**

*Three credits. Three hours of lecture per week Prerequisites: HAVING MEET ALL COURSE AND EXAM REQUISITES FOR PH.D.*

Submittal of research work done under the supervision of a faculty advisor. It is the final requirement for the degree. 10-10-94

**ESHI8600 - Dissertation for The Doctoral Degree.**

*Three credits. Three hours of lecture per week prerequisite: having meet all the courses and exam requisites for Ph.D.*

Submittal of research work done under the supervision of a faculty advisor. It is the final requirement for the degree. 10-10-94

**ESHI8603 - Linguistics and Literary Theory.**

*Three credits. Three hours of lecture per week*

Application of linguistic principles to the study and analysis of literary texts. Historical background, literary problems, modern schools, idealism, structuralism, stylistics. 10-10-94

**ESHI8615 - Mysticism and Poetry of Santa Rosa De Lima.**

*Three credits. Three hours of seminar per week Prerequisites: BE A GRADUATE STUDENT OF THE FACULTIES OF HUMANITIES, EDUCATION OR SOCIAL SCIENCES.*

Study of the mysticism and its poetic expression in Santa Rosa de Lima, departing from her confessions and the iconic-lexical discourse employed in her two holographs. The nature of her mystical experiences will be focused through the scope of renaissance Christian mystical theology, as well as diverse cultural streams converging in her artistic language. Special attention will be paid to the protocols of beatification and her remaining two holographs, little known by literary critics, as the main sources of her spiritual thought

**ESHI8619 - The Poetry of Miguel Hernandez.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

Introduction and study of the poetry of Miguel Hernandez as a member of the Spanish generation of 1936, and a survey of contemporary tendencies of the Spanish poetry as reflected in his works. 10-10-94

**ESHI8621 - Cantar De Mio Cid.**

*Three credits. Three hours of lecture per week*

Discussion and study of the importance and influence of "el cantar de mio cid". 10-10-94

**ESHI8622 - El Libro De Buen Amor.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*

A study of "el libro de buen amor", its manuscripts, original sources, structure, poetic form, and style. 10-10-94

**ESHI8623 - La Celestina.**

*Three credits. Three hours of lecture per week*  
A study of the aesthetic value of *la celestina*. 10-10-94

**ESHI8635 - Horacio Quiroga.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*  
A study and analysis of Quiroga's works in their form, content, and narrative structure. 10-10-94

**ESHI8641 - The Literary Works of Juan Goytisolo.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER OR DOCTORATE STUDENTS*  
The works of Juan Goytisolo from two angles: the panoramic and the representative. The former will describe and study the work as a whole. The latter will examine the most representative novels and the principal aspects of Goytisolo's work. In this way the student will get an accurate critical appraisal and a better understanding of Goytisolo. 10-10-94

**ESHI8647 - Cien Años De Soledad.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*  
A close study of Gabriel Garcia Marquez's novel *Cien Años de Soledad* as the culmination of the author's production and as an example of contemporary narrative tendencies in Spanish America. 10-10-94

**ESHI8651 - The Poetry of Federico Garcia Lorca.**

*Three credits. Three hours of lecture per week*  
Analysis of the poetic works of Federico Garcia Lorca, their place in Spanish poetry and in modern art. Sources, content, form, and language. 10-10-94

**ESHI8652 - The Theater of Federico Garcia Lorca.**

*Three credits. Three hours of lecture per week*  
Analysis of the dramatic works of Federico Garcia Lorca; their place in the Spanish theater and in modern dramatic art. Sources, content, form, and language. 10-10-94

**ESHI8653 - The Mexican Novel.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER AND PH.D. DEGREE STUDENTS*  
A study of the most important literary trends, authors, and novels in Mexico from 1816 to 1910. The course begins with a survey of the cultural and historical background of the period. 10-10-94

**ESHI8654 - The Mexican Novel.**

*Three credits. Three hours of lecture per week Prerequisites: MASTER AND PH.D. DEGREE STUDENTS*  
A study of the most important literary trends, authors, and novels in Mexico from 1816 to 1910. The course begins with a survey of the cultural and historical background of the period. 10-10-94

**ESHI8655 - The Literary Work of Valle Inclin.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENT*  
A study of Valle Inclin's literary production: prose and poetry. 10-10-94

**ESHI8656 - The Literary Works of Valle Inclin.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENT*  
A study of Valle Inclin's literary production: drama. 10-10-94

**ESHI8657 - The Literary Work of Baltasar Gracian.**

*Three credits. Three hours of lecture per week*

A seminar on the literary works of Baltasar Gracian. An analysis of the structure, style and literary importance of his main works. 10-10-94

**ESHI8661 - The Poetry of Leopoldo Lugones.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*

The poetry of Leopoldo Lugones in the light of its sensorial, affective and logical context. 10-10-94

**ESHI8663 - Jose Marti.**

*Three credits. Three hours of lecture per week*

A study of the personality and works of Jose Marti, with special emphasis on his thought and literary expression. Lectures and text discussions. 10-10-94

**ESHI8664 - Jose Marti.**

*Three credits. Three hours of lecture per week*

A study of the personality and works of Jose Marti, with special emphasis on his thought and literary expression. Lectures and text discussions. 10-10-94

**ESHI8667 - Martin Fierro.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A survey of the socio-historical background of Martin Fierro and the literary current which culminates in that work. Emphasis on the essential aspects of the poem to obtain a total view of it, its literary merits and its significance in Hispanic literature. 10-10-94

**ESHI8670 - Literature and Urban Culture in Mexico.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week.*

A study of the representation of urban culture in novel, "testimonios", urban chronicles and culture essays, as well as other art forms (popular songs, photography, and architecture) that coincide with the period of Mexican modernization (1940-1970). An analysis of text by Ramos, Novo, Paz, Monsivais, Fuentes, Poniatowska, and Blanco will alternate with a study of Mexican Boleros, Alvarez Bravo's photography and Pani's architectural projects. Essays on urban culture and cultural studies by Benjamin, de Certeau, Easthope and Garcia Canclini will constitute the theoretical framework of this course.

**ESHI8671 - The Chilean Novel.**

*Three credits. Three hours of lecture per week*

A survey of the development of the Chilean novel from its beginnings to the present day. A study and evaluation of the novel through the analysis of the works of the most representative authors, such as Mariano Latorre, Eduardo Barrios Pedro Prado and others. 10-10-94

**ESHI8672 - The Chilean Novel.**

*Three credits. Three hours of lecture per week*

A survey of the development of the Chilean novel from its beginnings to the present day. Study and evaluation of the novel through the analysis of the works of the most representative authors, such as Mariano Latorre, Eduardo Barrios, Pedro Prado and others. 10-10-94

**ESHI8673 - The Novel of The Rio De La Plata.**

*Three credits. Three hours of lecture per week Prerequisites: FOR M.A. AND PH.D. STUDENTS*

Study of the historical development and analysis of the problems of the prose fiction of the rio de la plata, from its beginnings to the present. 10-10-94

**ESHI8674 - The Novel of The Rio De La Plata.**

*Three credits. Three hours of lecture per week Prerequisites: FOR M.A. AND PH.D. STUDENTS.*

Study of the historical development and analysis of the problems of the prose fiction of the rio de la plata, from its beginnings to the present. 10-10-94

**ESHI8675 - The Contemporary Chilean Novel.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*

An analytical study of contemporary Chilean novelists and their most representative works. 10-10-94

**ESHI8677 - The Literary Work of Sor Juana Ines De La Cruz.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: BE A GRAUDATE STUDENT OF ANY OF THE FOLLOWING FACULTIES*

Study of the literary discourse of Sor Juana Ines de la Cruz. The tenth muse thinking will be discussed in the light of her century's patriarchal ideology, focusing on two spaces where she stands out as an intellectual female the viceroyalty court and the monastic cloister. Selected and representative texts of the diverse literary genres that Sor Juana cultivated, according to her addressees and their circumstances, will be considered to this study.

**ESHI8682 - Juan Antonio Corretjer.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

The involvement of the author in the history of Puerto Rico as an useful tool to understand and interpret the ideological basis of his works; considers these works within the development of Puerto Rican literature; highlights of his style and makes an integral evaluation of all these aspects. 10-10-94

**ESHI8688 - Manuel Zeno Gandia.**

*Three credits. Three hours of lecture per week*

A study of the novels and short stories of Manuel Zeno Gandia within the frameworks of his literary milieu. 10-10-94

**ESHI8689 - Eugenio Maria De Hostos.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS*

A study of the life and writings of Eugenio Maria de Hostos. 10-10-94

**ESHI8694 - The Poetry of Cesar Vallejo.**

*Three credits. Three hours of lecture per week Prerequisites: M.A. AND PH.D. STUDENTS*

A study of the poetic works of Cesar Vallejo; their place in Spanish American literature. Sources, content, form, and language. 10-10-94

**ESHI8701 - Advanced Research.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

Directed research to guide the candidate in the preparation of his dissertation.

**ESHI8702 - Advanced Research.**

*Three credits. Three hours of lecture per week.*

Directed research to guide the candidate in the preparation of his dissertation.

**ESHI8890 - Comprehensive Examination.**

*No credits.*

This course is for the students who are working to take the comprehensive examination before enrolling in

thesis. This course could be taken up to a maximum of two semesters. The student could withdraw the course only one time.

**ESHI8891 - Doctoral Thesis.**

*No credits. Prerequisites: TOTAL OF REQUISITES REQUIRED FOR THE DEGREE PREPARATION OF THESIS.*  
Preparation of thesis doctoral degree.

**ESHI8892 - Doctoral Thesis Continued.**

*No credits. Prerequisites: TOTAL OF*

Continuation of preparation of doctoral degree thesis. The student will be able to repeat the course for up to 8 semesters according to an official communication from the graduate program of the faculty of humanities.

**ESHI8991 - Spanish Discourse Analysis.**

*One to Six credits. Three hours of seminar per week.*

A seminar on different themes related to the study of discourse analysis in Spanish. The course can be repeated up to six credits with different themes.

**ESIN6995 - Theoretical Debates in The Humanities.**

*One to Six credits. Three hours of seminar per week Prerequisites: IT WILL BE DETERMINED ACCORDING TO THE SPECIFIC TOPIC IN THE SEMESTER.*

A seminar on different themes related to the analytical reflection of current debates in the humanities and their significance in the contemporary world. Each time, the seminar will focus on a different topic, such as: humanities, science and technology; reading, books and their markets; society and intellectuals; tradition and innovation in the humanities; contact languages; discourse analysis, among many others. 13-08-02

**FILO6001 - Foucault's Philosophy.**

*One to Three credits. One to three hours of lecture per week.*

Special topics course. This course develops the main concepts of Foucault philosophy's archeology, genealogy, and ethics. It relates its philosophy with the social sciences (psychology, sociology and politics. )

**FILO6002 - What Is Philosophy?**

*Three credits. Three hours of lecture per week.*

Course aimed at graduate students who have not studied philosophy or who wish to reinforce discipline-specific skills such as critical thinking, independent study, research, among others. Methodological issues such as the identification and approach to problems, arguments and concepts in philosophical readings will be discussed. Likewise, guiding debates on the history of the discipline will be addressed as well as the relationship of philosophy with other disciplines or knowledge and its environment. This course will be offered face-to-face, hybrid and online modalities.

**FILO6005 - Philosophy of Nietzsche.**

*Three credits. Three hours of lecture per week*

Intensive study on one or various works of this philosopher; discussion of the main problems of his thinking (critique of metaphysics and morals, will power, etc.) and of his methodological approaches (genealogy and perspectivism) face-to-face, hybrid and online course. Effective August 2020.

**FILO6010 - Theories of Justice.**

*Three credits. Two hours of lecture and one of discussion per week.*

Elective course in which the students will approach and discuss the contemporary theories of justice. The specific syllabus can include a combination of the contributions of the main exponents of the theories of



justice such as: John Rawls, Robert Nozick, Ronald Dworkin, Gerald Cohen, Catherine McKinnon, Iris Marion Young, Michael sandal and Amartya Sen.

**FILO6015 - Philosophy of History.**

*3 credits. Prerequisites: PHIL 3001, 3071-3072.*

A study of the evolution of the concept of history in the history of philosophy and the theoretical debates of historians.

**FILO6016 - Definite Description.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Definite

**FILO6017 - Platonic Philosophy.**

*One to 3 credits. Two hours of lecture and one hour of discussion per week.*

Study of themes, concepts and texts of Plato's philosophy and Platonism. The course can be organized in sequences of topics and themes, or it can consist in the running commentary of one or several dialogues. The student would be able to take the course more than once up to a maximum of three credits, as long as it is offered on different topics. This course is delivered in campus-based teaching mode or face-to-face, hybrid and online modalities.

**FILO6025 - Philosophy of Science.**

*3 credits. Three hours of lecture per week Prerequisites: BE A GRADUATE STUDENT.*

Topics to be covered include: the criteria for and scope of scientific knowledge, the processes of theory and concept and change in science, causation and explanation, other philosophical issues that may arise in the various sciences.

**FILO6026 - Ancient Ethics and Political Philosophy.**

*One to Three credits. Two hours of lecture and one of discussion per week.*

Course on themes related to the ancient Greek political philosophy and ethics, with the possibility to connect them to ancient metaphysical or epistemological issues. The student would be able to take the course more than once up to a maximum of 3 credits, as long as it is offered on different topics.

**FILO6035 - Ethics.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM.*

An examination of classical and contemporary ethical theories and central ethical problems, such as the role of reason in the guiding and justification of moral behavior.

**FILO6045 - The Philosophy of Leibniz.**

*FILO6045 - The Philosophy of Leibniz.*

A study of Leibniz's mature philosophy, emphasizing the relationship between logic and ontology, philosophy of nature and philosophy of mind. 10-10-94

**FILO6046 - Jean Jacques Rousseau Philosophy.**

*Three credits. One hour of discussion and two of seminar per week.*

The purpose of the seminar is to critically approach Rousseau's philosophical thinking, from his famous works such discourses, the social contract and emile, as well as other less-studied literary and autobiographical references.

**FILO6047 - The Philosophy of Kant.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM.*  
A study of some of Kant's works as well as those of some of his commentators and critics.

**FILO6048 - Philosophy and Dialectics In Kant.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR.*

Study of transcendental dialectics and of transcendental doctrine of method in the critics of pure reason. 10-10-94

**FILO6049 - Kantian Consciousness and Judgement.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE PROFESSOR.*

Study of the Kantian doctrine of judgements in connection with his conception of consciousness. 10-10-94

**FILO6060 - Research and Writing In Philosophy.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Course aimed at learning and getting familiar with various aspects of research and writing in philosophy, according to the needs of the students in their own research. General aspects regarding content and formal structure of research in philosophy will be studied, such as: approach to a philosophical problem, organization and schematization of ideas, selection of bibliography, elaboration of arguments, among others. Face to face hybrid and online course

**FILO6061 - Classics Works of Modern Philosophy.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

In this course one or more representative works of modern philosophy will be systematically studied, such as: r. Descartes' meditation of first philosophy, j. Locke's essay concerning human understanding, d. Hume's a treatise of human nature, i. Kant's critique of pure reason or a. Schopenhaur's the world as will and representation, among others. The course may be repeated up to maximum of six credits when different contents are addressed. Face to face hybrid and online course.

**FILO6065 - Pragmatism and Neo-pragmatism.**

*Three credits. Two hours of lecture and one of discussion per week.*

This course reviews the classic period of pragmatism, the foundational writings of this school of thought and its principal authors: Charles Pierce, William James and John Dewey. In addition, the course examines the major concepts of neo-Pragmatism and its representatives for the second part of the 20th century and the early 21th. Century. This course details the critical appropriation neo-pragmatism does on the doctrines of pragmatism.

**FILO6155 - Philosophical Studies on Metaphor.**

*Three credits. Three hours of seminar per week.*

Paul Ricoeur's the rule of metaphor, one of most important and s systematical studies on metaphor to emerge in recent years, will be critically examined and considered in detail. This course links analytical and continental philosophical traditions of studies on metaphor. The different levels of metaphor's functioning - word, phrase and discourse - will be examined as segments of a unique itinerary whose stations are correspondingly classic rhetoric, semiotics and semantics, and hermeneutics. The referential problem of metaphor and its relations to reality will examine as a very special problem.

**FILO6205 - Presocratic Philosophy.**

*Three credits. Three hours of lecture per week.*

Course devoted to the study of some major pre-Socratic philosophers: among others, Xenophanes of colophon. Pythagoras, Anaxagoras, Empedocles, the atomistic (leucippus, democritus) and the sophists. The

course will be based on the study of texts with particular focus on issues and problems of various kinds, whether metaphysical, relating to knowledge, political or ethical issues. These issues can be addressed from the perspectives of their contribution to the understanding of ancient western philosophical thought in general or other periods in the history of western philosophy. The course can also focus on the study of a single subject or problem.

### **FILO6206 - Classic Works of Ancient Philosophy.**

*Three credits. Three hours of lecture per week.*

Course devoted to the study of one or more works from the western classical philosophy, ranging from the fragments of the pre-Socratic philosophers to St. Augustine. Problems and concepts of various kinds, for example, metaphysical, physical, relating to knowledge, political or ethical problems will be examined through the study of the chosen works. Particular attention will be paid to the study of the general structure and main themes, problems and concepts for the works chosen, and the detailed analysis of specific excerpts as well. These themes, problems and concepts will be addressed from the perspective of their contribution to the general thought of the author, and/or in the light of their contribution to the understanding of other periods and works of the history of western philosophy.

### **FILO6301 - Buddhism and Philosophy I.**

*Three credits. Two hours of lecture and one of discussion per week.*

The purpose of this course is to offer a general yet rigorous idea of essential Buddhist concepts and buddha's thoughts. This first part of the course focus in ancient Buddhism, whose tradition comes to our days through Theravada Buddhism.

### **FILO6302 - Buddhism and Philosophy II.**

*Three credits. Two hours of lecture and one of discussion per week.*

The purpose of this course is to offer a general idea of the Buddhist concepts and buddha's thoughts. Second part of the course focus on the Mahayana tradition to which both Zen and Buddhism and Tibetan Buddhism belong.

### **FILO6395 - Philosophy and Deconstruction.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR IN PHILOSOPHY.*

Study of the strategies of writing and reading developed by i. Derrida, through an analysis of his texts, which contribute, in theory and practice, to an understanding of the method of deconstruction and its application in the interpretation of philosophical texts. 10-10-94

### **FILO6405 - Philosophy of Religion.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*

Based on the classification of religious as prophetic, sacramental and mystical, by the eminent philosopher of religion William p. Alston, a comparative study of some paradigmatic philosophical theories on the nature of the religious phenomenon. Critical discussion of the writings of authors such as Kant, Schleiermacher, Feuerbach, otto, Bergson, and James. 10-10-94

### **FILO6406 - The Problem of God.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*

Study, from a historical perspective, of some of the traditional arguments to prove god's nature and to establish the primordial attributes of his existence. Analysis of some of the most important critiques that have been directed against these "proofs". Examination of how these problems reappear in the discussion of religious language in analytical philosophy. 10-10-94

**FILO6407 - Philosophy of Time.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Study of one particular approach to the philosophical problem of time, called Kairology (theory of timing), through interpretations of classical texts which develop this subject (diachronic aspect), and discussion of systematic problems of Kairology (synchronic aspect; interdisciplinary approach). 10-10-94

**FILO6409 - Hume's Philosophy of Religion.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Critical analysis of Hume's theories in the origin, nature, and historical effect of religion presented in the natural history of religion and his critique of rational theology sketched primarily in inquiry concerning human understanding and in dialogues concerning natural religion. 10-10-94

**FILO6415 - Topics and Problems In Modern Philosophy.**

*3 credits. Three hours of lecture per week Prerequisites: BACHELOR IN PHILOSOPHY*  
A study of some of the main issues in modern philosophy, such as the notion of an idea, the concept of nature, the mind/body problem, theories of the state and of the law, the reason/passion distinction, among others.

**FILO6417 - Explanation and Understanding in History.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Examination to the twentieth century discussion about the nature of historical knowledge. The main concern will be the contributions to this theme by philosophical currents, such as: neo-Kantianism, positivism, analytical philosophy, hermeneutic, and others. 10-10-94

**FILO6419 - French Existentialism.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
After a brief study of the principal representatives of French existentialism and its relations with the philosophy of Hegel, Kierkegaard, phenomenology and Heidegger, the course will examine systematically Sartre's being and nothingness. 10-10-94

**FILO6425 - Epistemology.**

*3 credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Topics to be covered include: the definition of knowledge as justified true belief, skepticism, induction, theories of perception, evidentiary categories knowledge of necessary truths, among others. Face-to-face, hybrid and online course. Effective August 2020.

**FILO6427 - Contemporary Philosophy of Action.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Examination of four contemporary theories of action and human praxis: pragmatist, Marxist, existentialist and British analytical philosophy. A general exposition of the field will be given using Richard Bernstein's praxis and action. The students have to read and analyze four essays that represent the theories discussed. 10-10-94

**FILO6428 - Spinoza's Ethics.**

*Three credits. Three hours of lecture per week.*  
This course offers a systematic study of Baruch Spinoza's (1632-1677) ethics demonstrated in geometric order. This work begins with an exposition of the idea of God that provides the explanatory framework, which enables the examination of the origin and nature of the mind and the analytical study of the affects. And through which it is possible to explore the antagonism between human bondage and human freedom.

The discussion will bring up fundamental traits of Spinoza's thought such as its necessitarianism, its understanding of the mind-body relation, the production of knowledge, the importance of desire in human nature, the presence of imagination in the dynamics of passions or the practical importance of guiding our live by reason.

**FILO6435 - The German Ideology: Problems of Reading and Interpretation.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
The elaboration and foundation of an interpretative approach to the reading of this work that will allow an adequate reconstruction and critical evaluation of the materialist conception of human history and society developed by Marx and Engels. 10-10-94

**FILO6437 - The Young Marx.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Study of Marx's juvenile writings in order it established and critically analyze the process of formation and the philosophical assumptions of his thought, with particular emphasis on the problem of the appropriation and the overcoming of Hegel's philosophical legacy. 10-10-94

**FILO6439 - Philosophical Aspects of Capital.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Analysis of the theoretical assumptions in mark's critique of political economy and of the philosophical problems that it raises, in order to make possible an examination and evaluation of the different interpretations which have arisen in the discussion of this work in the twentieth century. 10-10-94

**FILO6445 - Hegel's Practical Philosophy.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
The course explains Hegel's social, political and moral philosophy based on his philosophy of right (English version with commentaries by Knox). The chief aim is to present the practical side of Hegel's system. 10-10-94

**FILO6447 - Hegel's Phenomenology of Spirit.**

*3 credits. Three hours of lecture per week Prerequisites: BACHELOR OF PHILOSOPHY.*  
Systematic reading of Hegel's phenomenology of the spirit. In order to understand and contextualize his philosophical project, fundamental Hegelian concepts such as dialectics, negativity, the concept, experience, spirit, and absolute knowledge, among others. Will be discussed. Possible divergent themes, problems and perspectives on the text will also be examined, for example: manner which this book describes the relation between logic and phenomenology, or its epistemological, metaphysical, historicist, ethical, and political readings. Course offered face-to-face, hybrid and online. Effective August 2022

**FILO6449 - Dialectic in Capital.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Seminar to examine how Marx applies the Hegelian dialectic in his critique of political economy through his book capital. The specific differences between both dialectics will be examined, and Marx's proposal of dialectics as a necessary tool for the criticism of political economy. 10-10-94

**FILO6455 - Lecture of Aristotle.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Study of Aristotle's thought as appears in his remaining documents. Lecture and analysis of one of his writings of greater philosophical significance, such as the central books of metaphysics, or the first four books of physics, book ii and iii of de anima, the posterior analytics or the nicomachean ethics. This course

face-to-face, hybrid and online modalities. 10-10-94

**FILO6457 - Aristotle's Ethics and Politics.**

*3 credits. Three hours of lecture per week.*

Reading and commentary on Aristotle's Nichomachean ethics and politics, in order to explain necessity of political life. The following aspects of ethics will be emphasized: criticism of the goodness itself, the theory of virtue, doctrine of the mean, the concept of justice, pleasure, friendship, etc. This course is delivered in campus-based teaching mode or in hybrid mode or in face-to-face, hybrid and online modalities.

**FILO6465 - Herder and Vico.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*

Introduction to the basic problems faced by historical knowledge during the 18th century, mainly in regard to ideology and the enlightenment. It will then investigate the innovative contributions of Herder's philosophy (especially in *auch eine philosophie der geschichte and ideen*). G. B. Vico's new science will be the basic text. 10-10-94

**FILO6467 - Hume's Metaphysics and Theory of Know Knowledge.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*

Analysis of the ontological and epistemological foundations of Hume's philosophy focusing, from a unitary perspective, on the central problems discussed in the treatise, book I and in the inquiry concerning human understanding, as: causality, the independent existence of sensible objects, personal identity and nature and role of Hume's skepticism. 10-10-94

**FILO6475 - Gottlob Frege's Philosophy.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*

An introduction to Gottlob Frege's philosophy based on a detailed study of the foundations of arithmetic, followed by a discussion of writings representative of Frege's whole philosophical work. 10-10-94

**FILO6477 - Husserl's Logical Investigations.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*

Exposition and interpretation of the most important problems discussed by Husserl in the second volume of the logical investigations, pointing out their relevance for different areas of the present philosophical discussion. 10-10-94

**FILO6485 - The Philosophy of Quine.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR IN PHILOSOPHY.*

Introduction to the philosophy of W. V. Quine discussion of his contributions to the philosophy of logic, of language, and to other areas of philosophy. 10-10-94

**FILO6487 - Husserl's Theory of Intentionality.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. IN PHILOSOPHY.*

Study of specialized problems in transcendental phenomenology. Detailed presentation of the intentional structures corresponding to the objects of sense perception, imagination and remembrance. 10-10-94

**FILO6495 - Wittgenstein's Thought.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*

Study of the principal problems presented in the philosophical investigations of Wittgenstein, seen as a second version of his work. The book is examined in relation to the earliest work of the philosopher, who takes a critical stand to his former way of thinking. 10-10-94

**FILO6497 - Ludwig Wittgenstein's Tractatus Logico-philosophicus.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Study of Wittgenstein's tractatus logico-philosophicus. Examination of some of its many interpretations. Investigation of the influences that it suffered and of the influence this work has had in contemporary philosophy. 10-10-94

**FILO6505 - Karl Popper's Philosophy.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
Introduction to the philosophy of Karl Popper. Examination of popper's most important contributions to epistemology and scientific methodology, and to the philosophy of the natural and social sciences. 10-10-94

**FILO6507 - The Philosophy of Heidegger.**

*3 credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
A study of some of Heidegger's works, as well as those of some of his commentators and critics.

**FILO6515 - The Semantical Problem of Truth.**

*3 credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY.*  
A study of contemporary philosophy theories of truth.

**FILO6605 - Directed Research in Philosophy I.**

*One to 3 credits.*

A course dedicated to researching specific topic of philosophical interest prior to enrollment, the professor and students, will agree, in writing, on the topic to be researched, the nature and methodology of the research, the texts and other materials to be used, and the types of evaluation to be employed in the course. A copy of this agreement will be deposited in the department of philosophy. The course filo6605 is usually taken together with some or all the following courses: filo 6615, filo6616 and filo6606. Up to a maximum of 9 credits may be earned toward the degree among the four courses.

**FILO6606 - Directed Research in Philosophy II.**

*One to 3 credits.*

A course dedicated to researching specific topic of philosophical interest prior to enrollment, the professor and students will agree, in writing on the topic to be researched, the nature and methodology of the research, the texts and other materials to be used, and the types of evaluation to be employed in the course. A copy of this written agreement will be deposited in the department of philosophy. The course filo 6606 is usually taken together with some or all the following courses: filo 6615, filo6616 and filo6605. Up to a maximum of 9 credits may be earned toward the degree among the four courses. Topics: the political dimension of sexuality and the economy in cities. P h online. Effective January 2021.

**FILO6615 - Directed Readings in Philosophy I.**

*One to 3 credits.*

A course dedicated to researching specific topic of philosophical interest prior to enrollment, the professor and students, will agree, in writing, on the topic to be researched, the nature and methodology of the research, the texts and other materials to be used, and the types of evaluation to be employed in the course. A copy of this written agreement will be deposited in the department of philosophy. The course filo6615 is usually taken together with some or all the following courses: filo6605, filo6606 and filo 6616. Up to a maximum of 9 credits may be earned toward the degree among the four courses.

**FILO6616 - Directed Readings in Philosophy II.**

*One to 3 credits. Number of*

A course dedicated to researching specific topic of philosophical interest prior to enrollment, the professor and students will agree, in writing, on the topic to be researched, the nature and methodology of the research, the texts and other materials to be used, and the types of evaluation to be employed in the course. A copy of this written agreement will be deposited in the department of philosophy. The course filo6616 is usually taken together with some or all the following courses: filo6605, filo6606 and filo6615. Up to a maximum of 9 credits may be earned toward the degree among the four courses. Topics: "the death of god" as a philosophical-literary problem. P h online. Effective January 2021.

**FILO6708 - Philosophy of Mathematics.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

This course is divided in two levels. The basic one includes the study of Platonism and intuitionism; the contributions of Leibniz, Kant, etc. ; contributions by Frege, Husserl, Poincare, etc. The advanced level covers the ideas of Godel, Weyl, Brower, curry, Boubaki, Kreisel and/or Heytig, etc., about mathematics. 10-10-94

**FILO6717 - Logical Empiricism.**

*Three credits. Three hours of lecture per week Prerequisites: FILO 4031, 4032, 3072, 4261 Y 4262.*

The contributions to contemporary philosophy of the most significant philosophical movement of the first half of the XX century, namely, logical empiricism (or positivism). Study of some of the most representative works of this movement and written by some of its central figures, such as Schlick, Carnap and Reichenbach. 14-08-2000.

**FILO6720 - Model Theory.**

*Three credits. Three hours of conference per week Prerequisites: PHIL 4031-4032.*

Three credits. Three hours of conference per week Prerequisites: PHIL 4031-4032.

**FILO6721 - Philosophy of Language I.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

Study of the following subjects: the linguistic sign; functions and aspects of language; the theories of meaning (referential, mentalist, behaviorist, meanings use) language and metaphysics; language and ethics; ideology and language. 10-10-94

**FILO6725 - Philosophical Cosmology.**

*3 credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

A study of ancient and contemporary philosophical conception of the world.

**FILO6737 - Philosophy and Linguistics.**

*3 credits. Two hours of lecture and one of discussion per week.*

In this course we will examine the philosophical foundations of the principal contemporary linguistic theories, as well as some of the most important contributions of philosophy to linguistics. Topics to be covered include: the innateness of language, and human evolution, language and cognition the truth-conditional view of meaning, the reference, quantification in natural languages, the pragmatic theories of Grice, Sperber and Wilson and metaphor.

**FILO6745 - Philosophy of Literature.**

*3 credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

An interdisciplinary study of classical and contemporary philosophical theories of literature and other theoretical approaches to literature



**FILO6747 - Philosophy of Mind.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS*

A critical analysis of the so-called mental or inner life of the human person and its manifestations in human behavior. Main point to be discussed are: consciousness and the unconscious; perception ("to see" and "to know"); memory and imagination; emotions and valuation; intentions and motivation; will; other forms of mental life. 10-10-94

**FILO6775 - Problems and Controversies Of The Philosophy Of Science I: The Controversy On Scientific Realism.**

*Three credits. Three hours of lecture per week*

Discussion about the conception on the degree and the kind of reality belonging to the theoretical objects of modern physics. Particular study of the realistic interpretation by Boyd, Churchland, hooker and hacking, as well as the antirealistic interpretation in its historical development, up to Van Fraassen and Dummett. 10-10-94

**FILO6776 - Problems and Controversies of The Philosophy of Science II: Inductive Inference And The Concept Of Probability.**

*Three credits. Three hours of lecture per week.*

Study of the controversy as to whether probability is to be regarded as an objective property of becoming or as mental state or a future of the researcher's behavior. The difficulties and obscurities of the former position are discussed and also the contribution to the "problem of induction" made by the subjectivistic school. Finally, the question regarding the concept of probability at work in contemporary science is dealt with. 10-10-94

**FILO6777 - Problems And Controversies In The Philosophy Of Science III: The Function Of Mathematics In Natural Science.**

*Three credits. Three hours of lecture per week.*

Study of the topic's background in endoxius and in the mathematical structures for natural philosophy according to Galileo and newton. Then the current literature is studied, especially, the controversy brought about by Hartry field's physics without numbers; on the other hand, the theories advanced by Sneed's school, which characterize the core of every physical theory as a mathematical structure and which attempt at a rational reconstruction of physical theories, are studied. 10-10-94

**FILO6778 - Problems and Controversies In The Philosophy Of Science Iv: Modern Science And Man's Self-understanding.**

*Three credits. Three hours of lecture per week.*

In the light of physical cosmology and of biological theories, the controversy brought about by the thesis which states the a priori low probability of the species homo sapiens, the questions regarding public policy on the utilization of genetics in the context of social matters and goals and the ethical implications and the feasibility of regarding the human brain in the analogy to computers, are discussed. 10-10-94

**FILO6795 - Research in Philosophy.**

*Three credits. Three hours of research per week Prerequisites: HAVE COMPLETED 100% OF THE CORE COURSE*

In this course the student will be able to explore a philosophical topic of interest in the company of a director, develop a proposal, write and complete a project to be defended as the final research project, leading to a master's degree. The final product of this directed research can be: 1) the writing of a philosophical essay similar to an article of scientific quality, or 2) the design and execution of a philosophical intervention project in a specific area of interest. Intervention projects must include an essay explaining their philosophical relevance. The student will finish the course when he\she defends his\her final research

project in front of his\her committee. This course is offered in the following modalities: in face-to-face, hybrid, distance and online modalities.

**FILO6796 - Continuation Research Project in Philosophy.**

*No credits. Research Prerequisites: FILO 6795.*

Continuation of the research project leading to the master's degree. The student will finish the course when he\she defends his\her final research project in front of his\her committee. This course will be offered face-to-face, hybrid, distance and online modalities.

**FILO6895 - Thesis.**

*No credits. Prerequisites: TOTAL OF*

Serious research on a philosophical topic chosen by the student. 10-10-94

**FILO6896 - Thesis Continued.**

*No credits. Prerequisites: TOTAL OF*

Serious research on a philosophical topic chosen by the student. 10-10-94

**FILO6925 - Husserl's Transcendental Phenomenology.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. WITH SPECIALIZATION IN PHILOSOPHY*

Introduction to Husserl's transcendental phenomenology. Discussion of some of its most principal themes and critical examination of some of its different interpretations. 10-10-94

**FILO6931 - Classical Problems of Philosophy I.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

Discussion of classical problems such as: the metaphysical question; being and thought, knowledge; substance; ontology; the foundations of science, universals; science and philosophy; knowledge and belief; god, the soul and the world; truth, etc. 10-10-94

**FILO6941 - Current Philosophical Problems I.**

*Three credits. Three hours of discussion per week Prerequisites: FOR GRADUATE STUDENTS.*

Discussion of such problems as: scientific method and explanation; truth; scientific revolution; empirical knowledge; probability and induction; analytical philosophy of language; symbolic logic; psychology and logic; logic and mathematics; freedom and cybernetics, etc. Face-to-face, hybrid and online course. Effective August 2020. 10-10-94

**FILO6992 - Topics in Ancient Philosophy.**

*One to Three credits. One to three hours of lecture per week.*

Course devoted to the study of some of the main topics, problems and concepts common to several thinkers of western antiquity or several of the ancient western schools of philosophy. The course will be based on the study of source texts of the period ranging from the pre-Socratic philosophers to St. Augustine. The course will address topics, problems and concepts of various kinds: metaphysical, epistemological, political or ethical problems and issues these topics can be addressed from the perspective of their contribution to the understanding of ancient western philosophical thought in general or other periods of the history of western philosophy. The course can also focus on the study of a single topics or problem. The course could be taken more than once and up to six credits if its topics vary.

**FILO6993 - Aesthetics.**

*One to Three credits. One to three hours of lecture per week.*

Course directed to the study of some of the major philosophical and aesthetic theories about art.

Throughout the course various themes, texts and/or concepts will be examined, contributing to the comprehension of the problems that have been historically raised about art and the dialogue that is established with other dimensions of thought. The course can be thematic or be focused on a particular author. The course can be taken up to a maximum of six credits with different themes. This course will be offered face-to-face, hybrid and online modalities. Effective August 2023.

#### **FILO6995 - Topics on Contemporary Political Philosophy.**

*One to Three credits. Two hours of conference and one of discussion per week.*

Study of some of the diverse thought currents in contemporary European, North American and Latin American political thought. This course places a particular interest in the theoretical shift from the foundational topics of modernity such as the justification of values (justice or democracy and institutions (the state or the law to the philosophical attempts of understanding the social and cultural mechanisms that sustain political organization and social transformation.

#### **FILO6996 - Hellenistic Philosophy.**

*One to Three credits. Two hours of lecture and one of discussion per week.*

This course focuses on texts, themes and concepts of Hellenistic philosophy with emphasis on metaphysics, epistemology, ethics and politics. Attention will be given to the following schools: epicurean, stoics, cynics and skeptics. This course can be repeated for up to 6 credits if the topics of study vary. This course will be offered face-to-face, hybrid and online modalities. Effective August 2023.

#### **FILO6997 - Changes and Ruptures in The History of Philosophy: historic Examples and Theoretical Debates.**

*One to Three credits. Two hours of lecture and one of discussion per week.*

This course examines various explanations of how conceptual changes and appropriations in the history of philosophy occur. Both historical approaches and theoretical considerations that explain change in the history of philosophy can be considered. This course can be taken more than once if focus on different topics. Maximum 6 credits. Course offered face-to-face, hybrid and online. Effective August 2022.

#### **FILO6999 - Hermeneutics.**

*Three credits. Three hours of discussion per week Prerequisites: FOR GRADUATE STUDENTS.*

Introduction to the science of interpretation. Review of the development of hermeneutic thought (main problems and solutions) from ancient times to the present. The course will also cover subjects like: the role of the hermeneutics and its rules in religious, literary, historical and philosophical exegesis ; and hermeneutics as a philosophical method in thinkers like Schleiermacher, Dilthey, Heidegger, etc.

#### **GECU6000 – Masters’ Thesis.**

*Three credits. Three hours of seminar and thesis Prerequisites: GECU 6005, 6006, 6205, 6999, 6900.*

Preparation elaboration, and approval of master's thesis under the supervision of a thesis advisor. The student will only be able to register the course once.

#### **GECU6001 - Contemporary Art Theory and Criticism.**

*Three credits. Two hours of lecture and one of research per week.*

The course aims to study in an analytical way the currents, works, authors, managers and industries of contemporary art and, therefore, of art from the fifties. The subject matter will benefit from the deep look and directed towards a long-term research to be carried out by the student, as it is a postgraduate course. It should be added that analytical is understood to be primarily of a theoretical nature, taking into account both the criticism and the theoretical approaches in this regard, but without neglecting the historical approach, which enriches the theory through contextualization.

**GECU6002 - Film Theory and Criticism.**

*Three credits. Two hours of lecture and one of research per week.*

Study of the different theoretical approaches to film. Particular emphasis will be placed in the relationship between cinema and society. Notwithstanding the emphasis on theory, the study of film's formal language and instances of film history will not be neglected. The course is to conclude with research carried out by the student herself/himself, which could greatly benefit the development of her/his thesis. Given that some of cinema's specific characteristics are in the midst of transformation themselves in the digital age, this is a particularly valuable course for students of audiovisual production in general as well as arts and audiovisual administration.

**GECU6005 - Foundation of Cultural Management.**

*3 credits. One hour of lecture, one hour of discussion and one hour of seminar per week.*

Seminar aimed at developing a theoretical and practical vision of cultural agency. It addresses culture as the axis of development in face of the challenges of contemporary societies at the international level, and its relevance as a professional and academic field. Through the investigation and analysis of concrete experiences in cultural management in the Puerto Rican and international contexts, the course encourages students to reflect upon their own practice as cultural promoters. It enables an examination of the transversal links of cultural agency and diverse spheres, such as education, economy, urban planning, social coexistence, tourism among others. Finally, the course addresses the specific practices of cultural management. The course will be offered in face-to-face, hybrid and online modalities.

**GECU6006 - Cultural Theory.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

The course addresses various theoretical formulations of the concept of culture and the ways in which they serve as a substrate for debates, research, policies and cultural agency. The reflection on culture is nourished here by anthropological, sociological, literary, communicational approaches, among other disciplinary perspectives. Starting from an introduction to cultural studies as an intellectual tradition, the course promotes a reflection on the relationship between theory and social action. The contemporary challenges of cultural research and agency are discussed, considering their theoretical, epistemological, ethical, aesthetic and political dimensions. The course will be offered face-to-face, hybrid and online modalities.

**GECU6007 - Cooperatives and Cultural Self-management.**

*Three credits. Two hours of discussion and one of lecture per week.*

Interdisciplinary course that explores the development of cultural undertakings outside the market economy. It emphasizes in cooperatives as economic models for cultural self-management. It addresses theoretical foundations for the critical analysis of cultural industries, providing basic notions of the cooperative model to promote its practice and development in the fields of arts and culture. Directed to advanced students in diverse disciplines of the humanities, communications, and business administration, among others. This course gives students the tools to apply the cooperative model with creativity, and gain skills for the development of cultural policies.

**GECU6105 - Introduction to Museology.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week.*

With an interdisciplinary perspective. The course studies the historical development of museums as cultural entities. It addresses the ways in which the act of collecting is defined, the meanings that are given to certain objects, the relationships built between time, space and subjects, as well as the role assigned to the curator and the audience. Through the study of different kinds of museums, it explores the interface of these aspects with concepts such as modernity, progress, national identity, patrimony, tourism, and consumption of

symbolic products.

### **GECU6115 - Performing Arts Production and Management.**

*3 credits.*

Performing arts production and management.

### **GECU6205 - Strategic Management of Cultural Organizations.**

*3 credits. One hour and half of lecture and one hour and half of discussion per week.*

Study of the philosophy, practice and ethics of arts organizations and their management. It examines the various challenges that cultural institutions for profit and nonprofit-face. Among them, the legal and financial bases for the creation and development of a cultural organization; its administrative model; the formulation and implementation of strategic plans, including aspects such as funding, relations with government agencies, audience development, marketing, and programming; and the administrative specificities of governmental and non-governmental cultural entities. These topics will be addressed using examples of institutions that deal with theater, music, dance, visual arts, and other forms of cultural expression. Change in title since January 2016

### **GECU6207 - Cultural Police.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

The course explores cultural policies as a field of research, participative discussion, and political action. It addresses the role of the symbolic in the structuring of social experience, and the ways in which the notion of cultural policies has been articulated in the academy, the governmental sphere, and in international organizations. It discusses the debates around the relationship between culture and development, and the trajectory of public policies in culture, emphasizing on the Latin American and Puerto Rican experience. It examines the challenges presented by market dynamics to cultural policies. As well as the mobilizations of culture carried out by social movements, and other agents of civil society, in their interaction with public policies. Students will develop a research project that includes the articulation of cultural policy proposals. The course will be offered face-to-face, hybrid and online modalities.

### **GECU6209 - The Economy of The Culture.**

*Three credits.*

Study of the economic dimension of culture, understood in its humanistic sense as artistic practices. It examines concepts like merchandise, capital, utility, market, production, and consumption, considering their applicability to the cultural sphere. Economic policies related to the arts, such as public and private subsidies, are also subject of discussion in the course. On the other hand, the course analyzes the impact on the arts of economic processes and systems, like neoliberalism, and globalization. It discusses questions such as: is art merchandise? How to establish art's economic value? What is the impact of the cultural sector in local economy? What is the role of the state and public subsidy in the development of the cultural sector? The course examines those themes from a diversity of theoretical approaches, including micro- economics, macroeconomics and the economic sociology of culture.

### **GECU6215 - Seminar for Independent Research.**

*Three credits. Prerequisites: GECU 6005, GECU 6006, GECU 6205.*

Specialized seminar for independent research on specific themes of individual interest. Before registration, the student and professor will come to a written agreement regarding the topic to be studied and the requirements of the course.

### **GECU6305 - Cultural Agency and Community Development.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week.*

The course proposes a critical approach to the concepts and processes that define civil and community action, from a theoretical perspective and the discussion of field experiences particularly in Puerto Rico. It focuses on the interdependence between concepts, symbolic structures of action, and communal, organizational, and institutional practices. In this course, the elements of philosophy, practice thought, and creative action are dimensions profoundly interrelated within the context of daily organizational and collective practices.

### **GECU6306 - Introduction to Cultural Entrepreneurship.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

The course explores entrepreneurial development in the cultural sector. It analyzes the principal theories of cultural enterprise and the profiles of cultural and creative entrepreneurs. It also discusses the importance of understanding and analyzing the external environment of launching enterprises, including their economic, political, legal and demographic frameworks as well as audience behavior and the competition. The productive chain of cultural industries is analyzed as a mechanism to identify business opportunities. The course proposes the study of cultural entrepreneurship models that guarantee economic and cultural sustainability of the enterprises, as well as the discussion of key entrepreneurial tools such as financial viability, organizational design, marketing and governmental agreements. Emphasis is placed on innovation as the tool of competitive advantage in cultural enterprises.

### **GECU6405 - Archives in Action: digital Mediations and Virtual Arts Networks.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week.*

An interdisciplinary and transnational approach to contemporary cultural practices requires new perspectives on creation and criticism, and innovative strategies of documentation, preservation, and dissemination. In the digital era it is possible to create collaborative and multimedia web sites to map and articulate complex cultural communities. The course focuses on the question of how to document, preserve, and make contemporary cultural practices known in light of the innovations and challenges they present to traditional methods of safeguarding the cultural patrimony of hybrid artistic and cultural communities through the study of contemporary cases, the course aims to produce informed and creative proposals of cultural agency for the development of digital archives for hybrid communities of the present and the future.

### **GECU6885 - Fundraising.**

*One to Three credits. One to three hours of seminar per week.*

The course provides an introduction to cultural fundraising, whether from a philanthropic, corporate or public perspective. We will explore the actual tendencies and different strategies to obtain public or private funds. Also, social and cultural aspects will be explored as part of the course.

### **GECU6900 - Comprehensive Exam Prerequisite:**

*18 credits.*

The course consists of the preparation and presentation of a proposal for a research cultural project. It should include statement of the theme, justification, objectives, literature review, methodological strategies, work plan and bibliography.

### **GECU6901 - Proposal in Cultural Agency and Administration.**

*Three credits. Prerequisites: GECU6005, 6006, 6205 15 APPROVED*

The course consists of the preparation and presentation of a proposal for research on a cultural project. It should include statement of the theme, justification, objectives, literature review, methodological strategies, work plan and bibliography.

### **GECU6902 - Capstone Project.**

*Three credits. Two hours and a half of research and half an hour of thesis Prerequisites: GECU6005, 6006, 6215 AND 24*

The course consists of the preparation and presentation of his/her research whether it is on a thesis or a cultural project format. The student will be exposed to a series of guidelines that will offer useful elements to him/her in order to complete and present said work.

#### **GECU6985 - Topics in Digital Humanities.**

*One to Week. credits.*

Seminar of variable themes related to the study and implementation of contemporary practices in the digital humanities. The student can take the course more than once up to a maximum of six credits, as long as it is offered on different topics. The course will be offered in face-to-face, hybrid and online modalities. Effective August 2022.

#### **GECU6990 - Topics in Literature Development.**

*One to Six credits. One hour of lecture, one of discussion and one of seminar per week.*

Seminar of variable themes related to the theoretical and practical study of literature development. The student would be able to take the course more than once up to a maximum of 6 credits, as long as it is offered on different topics. Topic: editorial management. P h online, effective January 2023.

#### **GECU6991 - Topics In Law And Culture.**

*One to Six credits. Un hour of lecture one of discussion and one of seminar per week.*

Seminar of variable themes related to the study of the relationship between law and culture. The student would be able to take the course more than once up to a maximum of 6 credits. As long as it is offered on different topics

#### **GECU6992 - Research Seminar in Cultural Studies.**

*One to Six credits. Three hours of seminar per week.*

Seminar directed to the development of research competences in cultural studies, as a transdisciplinary field which addresses the relationship between culture, power and subjectivities, with diverse methodological and analytical strategies. The student would be able to take the course more than once up to a maximum of 6 credits, as long as it is offered on different topics. This course will be offered face-to-face, hybrid and online modalities. Effective August 2022.

#### **GECU6993 - Topic in Visual Arts Development.**

*One to Six credits. One hour of lecture one hour of discussion and one hour of seminar per week.*

One to Six credits. One hour of lecture one hour of discussion and one hour of seminar per week.

#### **GECU6994 - Topics in Cultural Projects Management.**

*One to Six credits. One hour of lecture one hour of seminar and one hour of workshop per week.*

Course of variable themes focused on the study of theoretical and practical aspects of cultural project management. The student would be able to take the course more than once up to maximum of 6 credits, as long as it is offered on different topics. Some of the themes that it could address are the formulation, implementation, and evaluation of cultural projects; funding strategies for cultural projects; writing proposals, cultural agency and community development, among others. Course modified since August 2015 the student would be able to take the course more hatn once up to a maximum of 9 credits on different topics.

#### **GECU6995 - Topics in Cultural Development And Communication.**

*One to Six credits. Three hours of seminar per week.*

Seminar of variable themes related to the theoretical and practical study of the relationships between cultural agency and media. The student would be able to take the course more than once up to maximum of 6 credits, as long as it is offered on different topics.

**GECU6996 - Topics in Cultural Heritage.**

*One to Three credits. One hour of discussion, one hour of lecture and one hour of seminar per week.*

Seminar of variable themes related to the theoretical and practical study of cultural heritage. The student would be able to take the course more than once up to a maximum of 6 credits, as long as it is offered on different topics. Course modified since August 2015 the student would be able to take the course more than once up to a maximum of 9 credits on different topics.

**GECU6997 - Topics in Music Managements.**

*One to Three credits. One hour of lecture one of discussion and one of seminar per week.*

Seminar of variable themes related to the theoretical and practical study of music management. The student would be able to take the course more than once up to a maximum of 6 credits, as it is offered on different topics.

**GECU6998 - Topics in Performance Studies.**

*One to Six credits. One hour of lecture one of discussion and one of seminar per week.*

Seminar of variable themes related to the study of performance, its research and practice. Performance is understood in a broad sense as artistic or cultural actions that transcend the limits of academic art. The student would be able to take the course more than once up to a maximum of 6 credits, as long as it is offered on different topics.

**GECU6999 - Internship in Cultural Agency And Administration.**

*One to Three credits. Five hours of contact for each 40 on field work Prerequisites: GECU6005, GECU6006, GECU6205. GRADUATE EXAM OR PERMISSION FROM THE DIRECTOR OF THE PROGRAM.*

Supervised work experience in a public, private or community cultural organization a museum, gallery, theater, cultural center, cultural cooperative municipal cultural office. This is the laboratory where the student analyzes, applies, integrate, and evaluate the principles and values of cultural agency and administration. Through this experience the student will develop operational skills, integrate research to daily practice in cultural agency, and develop a reflection which, based on his theoretical knowledge, can enrich the progress of projects, programs and procedures in the institution where the internship is carried out. This combined learning process offers the student the opportunity to affront situations and problems related to the management of cultural organizations in its multiple areas and dimensions. This course will be offered face-to-face, hybrid and online modalities. Effective August 2022.

**HIST6001 - Latin American and World Politics.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-12 OR THE EQUIVALENT.*

Analysis of the basic aspects of the political, military, and economic relations of Latin America with the non-Hispanic European imperial powers and the United States, from the sixteenth century to the present. 10-10-94

**HIST6002 - Latin American and World Politics.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-12 OR THE EQUIVALENT; HIST 6001.*

Analysis of the basic aspects of the political, military, and economic relations between Latin America and the non-Hispanic European imperial powers and the United States, from the sixteenth century to the present. 10-10-94



**HIST6005 - History of Modern India.**

*Three credits. Three hours of lecture per week Prerequisites: FOR FOURTH YEAR AND GRADUATE STUDENTS.*  
History of British imperialism and the development of the nationalist movement in India. 10-10-94

**HIST6006 - History of Modern China.**

*Three credits. Three hours of lecture per week Prerequisites: FOR FOURTH YEAR AND GRADUATE STUDENTS.*  
History of the development of the Chinese revolution. 10-10-94

**HIST6007 - Spanish-American Colonial Historiography.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-3212 OR ITS EQUIVALENT.*  
Critical survey or representative historical writings in Spanish America during the colonial and republican eras. 10-10-94

**HIST6008 - Hispanic American Historiography: Nineteenth and Twentieth Centuries.**

*Three credits. Four hours of lecture per week Prerequisites: HIST 3211-3212 OR ITS EQUIVALENT.*  
Critical survey of representative historical writings in Spanish America during the nineteenth and twentieth centuries. 10-10-94

**HIST6009 - Social History of The Italian Renaissance.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3165 OR ITS EQUIVALENT.*  
A study of the various ways in which economic and social forces affected the cultural and political life of Italian city-states in the fourteenth and fifteenth centuries. 10-10-94

**HIST6010 - History of Contemporary Vietnam.**

*Three credits. Three hours of lecture per week.*  
History of the growth of nationalism and revolutionary movements in Vietnam during the twentieth century. 10-10-94

**HIST6011 - History of Medieval Institutions in Western Europe.**

*Three credits. Three hours of laboratory work per week Prerequisites: HIST 3185 OR THE EQUIVALENT.*  
A comparative study of the church, kingship, and the noble estate as centers of historical development in Spain, France, and England during the middle age. 10-10-94

**HIST6012 - History of Medieval Institutions in Western Europe.**

*HIST6012 - History of Medieval Institutions In Western Europe.*  
A comparative study of the church, kingship, and the noble estate as centers of historical development in Spain, France, and England during the middle age. 10-10-94

**HIST6016 - History of the French Revolution.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3155 OR ITS EQUIVALENT.*  
A study of the forces which led to the revolution; a close scrutiny of constitutional and economic reforms; the different attempts to form a successful government and the rise of napoleon; European reaction to the growth of the empire; the downfall of napoleon. 10-10-94

**HIST6017 - History of The Mexican Revolution.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-3212 OR ITS EQUIVALENT.*  
Study and analysis of the ideological and institutional background and development of the Mexican revolution from its origins in the late century to its institutionalization in the 1920's. 10-10-94

**HIST6018 - History of The Puerto Rican Labor Movement.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241-3242 OR THE EQUIVALENT.*

Analysis of the development of the Puerto Rican labor movement within the context of the social, economic, and political problems of Puerto Rico during the twentieth century. 10-10-94

**HIST6020 - The Napoleonic Era.**

*Three credits. Three hours of lecture per week.*

Study of Napoleonic France from the directory and the great influence that napoleon's military and political genius exercised on the history of humanity. 10-10-94

**HIST6021 - Historical Analysis of European Diplomacy: 1870-1914.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3195, 3185, 3165, 3155, 3205 OR THE EQUIVALENT.*

Historical analysis of diplomatic relations in pre-war Europe, 1870-1914. Particular attention to the main currents leading to the world war I. 10-10-94

**HIST6022 - Historical Analysis of European Diplomacy: 1919-1939.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3195, 3185, 3165, 3155, 3205, 6021.*

Historical analysis of European diplomatic relations during the period between the two world wars, emphasizing the main currents leading to world war-II. 10-10-94

**HIST6023 - Historical Analysis of Euro-American Diplomacy: 1941-1972.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 6022.*

Diplomacy and the cold war. A study of the pos-war world from the Atlantic charter of 1941 to the shanghai communique of 1972, through the main documents, personalities, and international organizations. This course will be given as a seminar, with case studies of the main problems. 10-10-94

**HIST6025 - Thesis Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: 21 GRADUATE*

Production of the proposal for the m. A. Thesis. Course offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

**HIST6026 - Spanish-American Paleography.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE HISTORY DEPARTMENT.*

The study of writing styles in Spanish America, from the sixteenth to the nineteenth century. Course offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

**HIST6027 - Relations Between the United States and Puerto Rico During The 20th Century.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241-3242, 3111-3112 AND PERMISSION OF THE DIRECTOR OF THE HISTORY DEPARTMENT.*

The relations between the United States and Puerto Rico during this century. Emphasis is given to the Foraker and Jones acts and the development of the commonwealth under the present constitution. 10-10-94

**HIST6028 - Relationship Between Puerto Rico and The Caribbean: 19th And 20th Centuries.**

*Three credits. Three hours of lecture per week Prerequisites: ANALYSIS OF SOCIO-ECONOMIC AND POLITICAL RELATIONS.*

Analysis of the socio-economic and political relations between Puerto Rico and the Caribbean: XIX-XX centuries. 10-10-94

**HIST6029 - Spanish-American Diplomatic History: XIX-XX Centuries.**

*Three credits. Three hours and three of practice per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE HISTORY DEPARTMENT.*

Study of the structure of Hispanic-American historical documents of the nineteenth and twentieth centuries. 10-10-94

**HIST6031 - Institutional History of Colonial Spanish America.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-3212 OR ITS EQUIVALENT.*

The establishment of Spanish institutions in America and their evolution. The economic policy and contributions of Spanish America to the Spanish colonial system. 10-10-94

**HIST6032 - Institutional History of Colonial Spanish America.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-3212 OR ITS EQUIVALENT; HIST 6031.*

The establishment of Spanish institutions in America and their evolution. The economic policy and contributions of Spanish America to the Spanish colonial system. 10-10-94

**HIST6035 - Era of The American Revolution: 1775-1800 Three Hours of Lecture Per Week.**

**Prerequisites: Hist 3111-3112 Or Its Equivalent. credits.**

The historical background of the American revolution, principal issues, and the post-war effects of independence on America and the world. 10-10-94

**HIST6036 - Church and Society in Medieval France.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE HISTORY DEPARTMENT.*

Main problems in the social history of France in the high middle age, and their correlations effects on the medieval French church. 10-10-94

**HIST6037 - Geopolitics of The Antillean Archipelago and The Continental Bordering Regions: XVI-xviii Centuries.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE HISTORY DEPARTMENT.*

Historical examination of the Spanish geopolitical imperial defense in the Caribbean and the gulf of Mexico; the development of a regional logistical vision. 10-10-94

**HIST6038 - The Political Development of Puerto Rico During The 20th Century (1898-1952).**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE HISTORY DEPARTMENT.*

Study of the political situation of Puerto Rico from 1898 to the establishment of the commonwealth of Puerto Rico in 1953. Emphasis on the Foraker and Jones acts, political parties, leaders, elections, ideological matters and general problems. 10-10-94

**HIST6039 - The Puerto Rican Economy and Society in The Nineteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE HISTORY DEPARTMENT.*

Analysis of the fundamental processes that determined the development of the Puerto Rican economy in the nineteenth century. 10-10-94

**HIST6040 - The Puerto Rican Economy and Society During the XX Century.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE HISTORY DEPARTMENT.*

Survey of Puerto Rican economic development and social formation in the present century. Course offered face-to-face, hybrid and online. Effective for August 2020. 10-10-94

#### **HIST6041 - History of InterAmerican Relations.**

*Three credits. Prerequisites: HIST 3111-3112 OR ITS EQUIVALENT.*

A critical study of the Monroe doctrine and analysis of the foreign policy of the United States in Latin America.

#### **HIST6042 - History of InterAmerican Relations.**

*Three credits. Prerequisites: HIST 3111-3112 OR ITS EQUIVALENT; HIST 6041.*

A critical study of the Monroe doctrine and analysis of the foreign policy of the policy of the United States in Latin America. 10-10-94

#### **HIST6045 - History of The Latin American Labor Movement In The Twentieth Century.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-3212 OR ITS EQUIVALENT.*

Analysis of the development of the Latin American labor movement within the context of the social, economic, and political problems of Latin America in the twentieth century. 10-10-94

#### **HIST6046 - Hispanic Caribbean: Economy and Society, Sixteenth to Twentieth Centuries.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241-3242 OR PERMISSION OF THE DIRECTOR THE HISTORY DEPARTMENT.*

Historical analysis of the development of the sugar plantation in Cuba, the Dominican Republic and Puerto Rico. 10-10-94

#### **HIST6051 - Historiography and Historical Criticism.**

*Three credits. Three hours of lecture per week.*

A study of the historical development of western historiography. Critical analysis of the representative works of each period, movement, and cultural group. Course offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

#### **HIST6052 - Historiography and Historical Criticism.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 6051.*

A study of the historical development of western historiography. Critical analysis of the representative works of each period, movement, and cultural group. Course offered face-to-face, hybrid and online. Effective for August 2020. 10-10-94

#### **HIST6055 - Slavery In The Americas.**

*Three credits. Three hours of lecture per week.*

Comparative history of slavery in brasil, the United States and the Caribbean islands. 10-10-94

#### **HIST6056 - Problems of Spain During the Nineteenth Century I.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

Reading seminar on historical problems of Spain during the nineteenth century. 10-10-94

#### **HIST6057 - Problems of Spain During the Nineteenth Century Ii.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

Reading seminar on historical problems of Spain during the nineteenth century. 10-10-94

**HIST6058 - Problems of Spain During the Nineteenth Century III Three Hours Of Lecture Per Week. Prerequisite: For Graduate.**

*Students. credits.*

Reading seminar on historical problems of Spain during the nineteenth 10-10-94. 10-10-94

**HIST6059 - Problems of Spain During the Nine Tenth Century Iv.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

Reading seminar on historical problems of Spain during the nineteenth century. 10-10-94

**HIST6061 - History of Puerto Rico: 1808-1898.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241-3242 OR ITS EQUIVALENT.*

The period of Ramon power, the constitutional government, the administration of don Miguel de la Torre and the all the historical process of 1898- 10-10-94

**HIST6062 - History of Puerto Rico 1808-1898.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 6061.*

Analysis of the main social, political, economic, and cultural events from the junta de information to the Spanish-American war and the change of the Spanish regime. 10-10-94

**HIST6065 - Computer Techniques in History.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

The use of computerized statistical analysis in historical research. Development of skills in the use of spss (special program for the social sciences) programs. Student's projects involve quantitative analysis of census reports, commercial data, administrative and judicial sources, and other material related to 19th and 20th century history. 10-10-94

**HIST6066 - History of The Progressive Movement In The United States 1870-1920.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3111-3112, ITS EQUIVALENT OR PERMISSION OF THE PROFESSOR.*

Analysis of the social origins of the progressive movement in the United States and its impact on key socio-economic groups between 1870 and 1920. 10-10-94

**HIST6067 - The United States and The Spanish-American War.**

*Three credits. Three hours of lecture per week.*

Analysis of the causes and consequences of the Spanish-American war its impact on the domestic and foreing policy of the United States. 10-10-94

**HIST6068 - The United States and Its Dependencies in The Twentieth Century Three Hours Of Lecture Per Week. Prerequisite: For Graduate.**

*Students. credits.*

Research seminar examining the United States' relations with its dependencies. 10-10-94

**HIST6069 - The United States Foreign Policy in The Caribbean.**

*Three credits. Three hours of lecture per week.*

Analysis of United States foreign policy towards the Caribbean in the first two decades of the twentieth century. 10-10-94

**HIST6071 - The Emancipation Movements in Latin America: 1800-1830.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-3112 OR ITS EQUIVALENT.*

Critical study of the origins and development of the movements for independence in Latin America. 10-10-94

### **HIST6072 - The Emancipation Movements in Latin America: 1800-1830.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3211-12 ON THE EQUIVALENT; HIST 6071.*

Critical study of the origins and development of the movements for independence in Latin America. 10-10-94

### **HIST6075 - Cuba in The Transit Towards Socialism.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

Study of Cuba's transformation into a socialist state during the years 1952-1968. 10-10-94

### **HIST6077 - Cold War Historiographical Debates.**

*Three credits. Three hours of seminar per week.*

This course discusses and analyzes the diversity on the historiography about the events and themes most relevant to cold war's issues (1945-1991), such as the consequences of the Yalta conference, the concept of national security in the international policy of the United States since 1945, the influence of nuclear weapons in the context of national security, the effects of the cold war on consumption and political harassment, the emergence of regional conflicts after World War II and the collapse of the cold war and its consequences.

### **HIST6078 - Historiographical Debates Over US International Relations, 20th. Century.**

*Three credits. Three hours of seminar per week.*

Discussion and analysis of some of the most important themes in the historiography concerned with US international relations in the 20th century. Among the themes that will be studied are the diverse theoretical constructions in US international relations' historiography, the second world war, the cold war, the debates over multilateralism, the influence of cultural and gender studies in US international relations' historiography and the effects of neoconservatism in post-war.

### **HIST6085 - Introduction To Topics In The United States' Historiography, XX Century.**

*Three credits. Three hours of seminar per week.*

This course discusses and analyzes several important topics in the historiography of the United States during the 20th century, such as: the theoretical perspectives that have influenced US historiography since the world war II, the most relevant debates in contemporary social historiography, the influence of gender as category of analysis in US historiography, the importance of labor history in industrial and post-industrial America and the diverse schools of historiography that examine US presence in the international arena during the 20th century.

### **HIST6086 - Seminar on New Deal's Historiographical Debates.**

*Three credits. Three hours of seminar per week.*

Discussion and analysis of the diversity on the historiography about the themes and debates relevant to the new deal (1932-1938). Among the themes that will be studied are historiographical constructions of the new deal, the emergence of the welfare state, political transformations since new deal's reforms, new deal's effects over urban politics, new deal's collapse at the end of 1930s and its consequences in the social, economic, and political fabric of the USA.

### **HIST6105 - Seminar in The History of Puerto Rico (1505-1599) Part I.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241 OR ITS EQUIVALENT, PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Monographic course of research and analysis of documentary sources, cartographic works, relations, memoirs, chronicles, and histories of the 16th and other centuries concerning the political, economic,

demographic, urban, educational, religious, and strategic development of Puerto Rico during the 16th century. 10-10-94

**HIST6106 - Seminar in The History Of Puerto Rico (1551-1599) Part II.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241 OR PERMISSION OF THE DIRECTOR.*

Monographic course of research and analysis of documentary sources, cartographic works, relations, memoirs, chronicles, and histories of the 16th and other centuries concerning the political, economic, demographic, urban, educational, religious, and strategic development of Puerto Rico during the 16th century. 10-10-94

**HIST6115 - Theory and Methodology of Oral History.**

*Three credits. Three hours of lecture per week.*

A detailed and analytical study of some of the most eminent writings about the theory and methodology of oral history. Practices of oral history, by means of lectures, discussions and visiting lecturers. The student will work in an oral history project that includes a research, an interview, its transcription and editing and a final essay. Face-to-face, hybrid and online. Effective August 2020. 08-16-99

**HIST6145 - Reading Seminar In Contemporary Theoretical Problems.**

*3 credits. Three hours seminar per week Prerequisites: BE A GRADUATE STUDENT.*

Readings course focused on topics in contemporary theory. Among the possible topics of discussion are: modernity and postmodernity, feminist theories, nation and nationalism, ethnicity, race, colonialism and postcolonialism, popular culture, the urban question, ecology, science and technology, state, market, and democracy, postindustrialism globalization, transition of social formations, and others. Students may take this course up to a maximum of three occasions (9 credits) without repeating themes therein. Course offered face to face, hybrid and online. Effective for January 2021.

**HIST6150 - Reading Seminar in European History.**

*3 credits. Three hours of seminar per week Prerequisites: ADMISSION TO THE HISTORY GRADUATE PROGRAM OR PERMISSION OF THE PROFESSOR.*

Analysis of the historical processes that have contributed to the development of Europe. Topics will change according to the professor's specialty. Students may take this course up to a maximum of three occasions, (9 credits) without repeating themes therein. Course offered face to face hybrid and online. Effective for January 2021.

**HIST6205 - Research Seminar on Puerto Rican Social History (nineteenth Century) I.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241-3242 OR PERMISSION OF THE PROFESSOR.*

Research seminar on Puerto Rican social history topics. 10-10-94

**HIST6206 - Research Seminar on Puerto Rican Social History (nineteenth Century) II.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241-3242 OR PERMISSION OF THE PROFESSOR.*

Research seminar on Puerto Rican social history topics. 10-10-94

**HIST6207 - Research Seminar on Puerto Rican Social History (nineteenth Century) III.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241-3242 OR PERMISSION OF THE PROFESSOR.*

Research on Puerto Rican social history topics. 10-10-94

**HIST6208 - Research Seminar on Puerto Rican Social History (nineteenth Century) Iv.**

*Three credits. Three hours of lecture per week Prerequisites: HIST 3241-3242 OR PERMISSION OF THE PROFESSOR.*

Research seminar on Puerto Rican social history topics. 10-10-94

**HIST6215 - Colonial History of The Caribbean: Fifteenth to Eighteenth Centuries I.**

*Three credits. Three hours of lecture per week Prerequisites: BE A GRADUATE STUDENT.*

Discussion seminar on selected topics and countries of the Caribbean during the first three centuries of European colonization. 10-10-94

**HIST6216 - Colonial History of The Caribbean: Fifteenth to Eighteenth Centuries II.**

*Three credits. Prerequisites: BE A GRADUATE STUDENT.*

Discussion seminar on selected topics and countries of the Caribbean during the first three centuries of European colonization. 10-10-94

**HIST6217 - Colonial History of The Caribbean: Fifteenth to Eighteenth Centuries - III.**

*Three credits. Three hours of lecture per week Prerequisites: BE A GRADUATE STUDENT.*

Discussion seminar on selected topics and countries of the Caribbean during three centuries of European colonization. 10-10-94

**HIST6218 - Colonial History of The Caribbean: Fifteenth to Eighteenth Centuries - Iv.**

*Three credits. Three hours of lecture per week Prerequisites: BE A GRADUATE STUDENT.*

Discussion seminar on selected topics and countries of the Caribbean during three centuries of European colonization. 10-10-94

**HIST6525 - History of The Spanish Language In Puerto Rico.**

*Three credits. Three hours of seminar per week.*

Study of the history of Spanish in Puerto Rico. Analysis of the linguistic and cultural roots of Puerto Rican Spanish from the Arahuc Taino substratum to the cultured and semicultured usages of the twentieth century. 10-10-94

**HIST6895 - Thesis.**

*No credits. Prerequisites: total of*

Original research work in primary sources, which will be presented by the student in form of thesis. 10-10-94

**HIST6896 - Thesis Continued.**

*No credits. Prerequisites: TOTAL OF*

Original research work in primary sources, which will be presented by the student in form of thesis. 10-10-94

**HIST6991 – Masters' Project I.**

*Three credits. 45 hours of thesis per week Prerequisites: HIST 6051 AND HIST 6052. FULL COURSE LOAD (T)*

In this course students will develop a research proposal and will begin the research for their final master's project. Each student will choose their own research topic and will choose a professor with whom they can develop the project, taking into account the topic and/or historical context of the project. Students will work one on one with mentor to identify a theoretical and methodological approach for the project. They will also identify the important bibliography for the topic and historical context, as well as the historiographical categories, and the kind of documents and archives that will be used for the final master's thesis project. This course will be offered face-to-face, hybrid, online and distance.



**HIST6992 - Master's Project II.**

*Three credits. 3 hours of thesis per week Prerequisites: HIST 6051, HIST 6052, HIST 6990, APPROVAL OF THE HISTORY GRADUATE PROGRAM. FULL COURSE LOAD - LETTER SANDRA PUJOLS NOV 27, 2022*

In this course students will develop a research project to be defended as their final master's project. Each student will choose their own research topic and will choose a professor with whom they can develop the project, taking into account the topic and/or historical context of the project. They will also identify two other professors from the history graduate program that will serve as readers of the final research project. Students will work one on one with their mentor to develop a historiographical project with a solid theoretical and methodological approach, at the level of being published in a peer-reviewed academic journal (it is not necessary for the project to be published for the student to fulfill the final requirements of their degree). The student will finish the course when they defend their final project in front of their committee and the chair of the history graduate program. This course will be offered face-to-face, hybrid, online and distance.

**HIST8005 - Research Seminar on The History of Puerto Rico I.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR SIX*

Specialized course for primary research on various problems on the history of Puerto Rico. 10-10-94

**HIST8006 - Research Seminar on The History of Puerto Rico II.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR SIX*

Specialized course for primary research on various problems in the history of Puerto Rico. 10-10-94

**HIST8007 - Research Seminar in The History of Puerto Rico III.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR SIX*

Specialized course for primary research on various problems in the history of Puerto Rico. 10-10-94

**HIST8008 - Research Seminar on The History of Puerto Rico Iv.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR SIX*

Specialized course for primary research on various problems in the history of Puerto Rico. Course offered face to face, hybrid and online. Effective for January 2021. 10-10-94

**HIST8009 - (de) Construction of Cultural Heritages.**

*Three credits. One hour of lecture and two hours of discussion per week.*

This course explores institutional supports provided by international and national organisms in relation to the management of cultural heritages- tangible, intangible and of the humanity. In addition, it examines the relationships existing among the heritage managements, their political and social uses and their role in the articulation and reproduction of cultural identities. This course also approaches the economic conceptualization of heritage within the framework of the tourist industry and pursues critical discussions about the conflicts associated with the different heritage uses in contemporary cities.

**HIST8010 - The Industrial Revolution and Underdevelopment.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENT.*

Seminar on the critical analysis of Europe's industrial revolution and Latin America's ways of following its example. 10-10-94

**HIST8015 - Seminar On Selected Readings On Latin America: Nineteenth And Twentieth Centuries**

**I.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM OR SIX*

Seminar of reading on Latin American problems of the nineteenth and twentieth centuries, such as: militarism, the rise of nationalist movements, constitutionalist, populist, socialist, etc. 10-10-94

**HIST8016 - Seminar on Selected Readings in Latin America: Nineteenth and Twentieth Centuries**

**II.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM OR SIX*

Seminar of reading on Latin American problems of the nineteenth and twentieth centuries, such as: militarism, the rise of nationalist movements, constitutionalist, populist, socialist, etc. 10-10-94

**HIST8017 - Seminar on Selected Readings in Latin America: Nineteenth and Twentieth Centuries**

**III.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM OR SIX*

Seminar of readings in Latin American problems of the 19th and 20th centuries, such as: militarism, the rise of nationalist movements, constitutionalist, populist, socialist, etc. 10-10-94

**HIST8018 - Seminar on Selected Readings In Latin America: Nineteenth And Twentieth Centuries**

**Iv.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM OR SIX*

Seminar of readings in Latin American problems of the 19th and 20th centuries, such as: militarism, the rise of nationalist movements, constitutionalist, populist, socialist, etc. Face-to-face, hybrid and online. Effective August 2020. 10-10-94

**HIST8030 - Contemporary Puerto Rican Historiography.**

*Three credits. Three hours of seminar per week Prerequisites: HIST 4225, 6051, 6052.*

Critical examination of diverse contemporary Puerto Rican historiographical and methodological currents and future areas of research, pertinent sources and methodologies are identified. 10-10-94

**HIST8035 - Seminar for Directed Readings in History I.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM OR 18*

Specialized course of selected readings related to specific historical problems of individual interest. Before registration, the student and professor will come to a written agreement regarding the topic to be studied and the requirements of the course. 10-10-94

**HIST8036 - Seminar for Directed Readings In History II.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM OR 18*

Specialized course of selected readings related to specific historical problems of individual interest. Before registration, the student and professor will come to a written agreement regarding the topic to be studied and the requirements of the course. 10-10-94

**HIST8037 - Seminar for Directed Readings In History III.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM OR 18*

Specialized course of selected readings related to specific historical problems of individual interest. Before

registration, the student and professor will come to a written agreement regarding the topic to be studied and the requirements of the course. 10-10-94

**HIST8039 - Seminar Themes Of African History.**

*Three credits. Three hours of seminar per week.*

Reading seminar on African history. The course focuses on the historiographical debates derived from sub-Saharan Africa that have provoked controversy. These debates cover political, ethnic and cultural topics, as well as those related to socioeconomic development. The course will address cases of specific nations as well as those phenomena that transcend national borders and can be observed across vast regions, which, therefore, require a comparative approach. Students can take the course a maximum of three times (9 credits) without repeating the topics. August 14, 2000.

**HIST8045 - Seminar for Directed Research In History I.**

*Three credits. Three hours of seminar per week Prerequisites: THE STUDENT MUST BE ADMITTED TO THE GRADUATE PROGRAM OR HAVE APPROVED 18 GRADUATE LEVEL*

Specialized course for research on specific themes or historical problems of individual interest. Before registration, the student and professor will come to a written agreement regarding the topic to be studied and the requirements of the course. 10-10-94

**HIST8046 - Seminar for Directed Research In History Ii.**

*Three credits. Three hours of seminar per week Prerequisites: THE STUDENT MUST BE ADMITTED TO THE GRADUATE PROGRAM OR HAVE APPROVED 18 GRADUATE LEVEL*

Specialized course for research on specific themes or historical problems of individual interest. Before registration, the student and professor will come to a written agreement regarding the topic to be studied and the requirements of the course. 10-10-94

**HIST8047 - Seminar for Directed Research In History III.**

*Three credits. Three hours of seminar per week Prerequisites: THE STUDENT MUST BE ADMITTED TO THE GRADUATE PROGRAM OR HAVE APPROVED 18 GRADUATE LEVEL*

Specialized course for research on specific themes or historical problems of individual interest. Before registration, the student and professor will come to a written agreement regarding the topic to be studied and the requirements of the course. 10-10-94

**HIST8048 - Seminar for Directed Research In History Iv.**

*Three credits. Three hours of seminar per week Prerequisites: THE STUDENT MUST BE ADMITTED TO THE GRADUATE PROGRAM OR HAVE APPROVED 18 GRADUATE LEVEL*

Specialized course for research on specific themes or historical problems of individual interest. Before registration, the student and professor will come to a written agreement regarding the topic to be studied and the requirements of the course. 10-10-94

**HIST8055 - Seminar on Colonial Latin America I.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Research seminar on Latin American history from sixteenth to eighteenth centuries. Face-to-face, hybrid and online course. Effective August 2020. 10-10-94

**HIST8056 - Seminar on Colonial Latin America Ii.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Research seminar on Latin American history from sixteenth to eighteenth centuries. 10-10-94

**HIST8057 - Seminar on Colonial Latin America III.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*  
Research seminar on Latin American history from sixteenth to eighteenth centuries. 10-10-94

**HIST8058 - Seminar on Colonial Latin America Iv.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*  
Research seminar on Latin American history from sixteenth to eighteenth centuries. 10-10-94

**HIST8065 - Reading Seminar on Caribbean History I.**

*Three credits. Three hours of lecture per week.*  
Reading seminar of the economic, social, and political development of the Caribbean. 10-10-94

**HIST8066 - Reading Seminar on Caribbean History II.**

*Three credits. Three hours of lecture per week.*  
Reading seminar of the economic, social, and political development of the Caribbean. 10-10-94

**HIST8067 - Reading Seminar on Caribbean History III.**

*Three credits. Three hours of lecture per week.*  
Readings seminar of the economic, social, and political development of the Caribbean. 10-10-94

**HIST8068 - Reading Seminar on Caribbean History Iv.**

*Three credits. Three hours of lecture per week.*  
Reading seminar of the economic, social, and political development of the Caribbean. 10-10-94

**HIST8075 - Research Seminar on Caribbean History I.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR TO HAVE APPROVED NINE*  
Research seminar of the economic, social, and political development of the Caribbean. 10-10-94

**HIST8076 - Research Seminar on Caribbean History II.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR TO HAVE APPROVED NINE*  
Research seminar of the economic, social, and political development of the Caribbean. 10-10-94

**HIST8077 - Research Seminar on Caribbean History III.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR TO HAVE APPROVED NINE*  
Research seminar of the economic, social, and political development of the Caribbean. 10-10-94

**HIST8078 - Research Seminar on Caribbean History IV.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR TO HAVE APPROVED NINE*  
Research seminar of the economic, social, and political development of the Caribbean. Course will be offered face-to-face, hybrid and online modalities. Effective January 2023. 10-10-94

**HIST8085 - Brazil: Economy and Society I.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM IN HISTORY OR NINE*  
Reading seminar on specific topics in the social and economic history of Brazil. 10-10-94

**HIST8086 - Brazil: Economy and Society II.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM IN HISTORY OR NINE*

Reading seminar on specific topics in the social and economic history of Brazil. 10-10-94

**HIST8087 - Brazil: Economy and Society III.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM IN HISTORY OR NINE*

Reading seminar on specific topics in the social and economic history of Brazil. 10-10-94

**HIST8088 - Brazil: Economy and Society IV.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM IN HISTORY OR NINE*

Reading seminar on specific topics in the social and economic history of Brazil. 10-10-94

**HIST8091 - Seminar of Readings of Problems of The United States, 19th-20th Centuries, I.**

*3 credits. Three hours of seminar per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM IN HISTORY OF PERMISSION OF THE PROFESSOR.*

Readings course focused on topics in the United States history during the 19th and 20th centuries. Every time it is offered, the course will discuss a different topic. The student will read intensively on the specific topic selected that semester. The professor will choose the material to be covered according to his/her field of expertise. Among the possible topics of discussion are: industrialism, labor movement, women's movement, ethnicity and immigration, state and society, political history, civil rights movement, urban history, the culture of consumption and others. Students may take this course up to a maximum of three occasions (9 credits) without repeating them therein. Face-to-face, hybrid and online course. Effective August 2020 new descriptions begin on August 14, 2001.

**HIST8095 - History of The Relations Between Cuba and The United States.**

*Three credits. Three hours of seminar per week Prerequisites: FOR GRADUATE STUDENTS.*

Study of the historical process in which Cuba and the United States have developed their economic and political relations. 10-10-94

**HIST8105 - Topics in Arabic and Islamic History.**

*Three credits. Three hours of seminar per week.*

Reading and discussion seminar in Arab and Islamic topics. Under this definition, we consider present-day Arabic countries and territories that in the past have belonged to what we know as Islamic civilization. Each time, the course will focus on different topics such as, but not limited to modernity and Islam in contemporary world, Al-Andalus fundamentalism, and religious political and economic history. The students will be able to take the course up to three times without repeating the topics, which will change periodically.

**HIST8125 - Seminar on Women's History I.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

Research seminar on women's history. 10-10-94

**HIST8126 - Seminar on Women's History II.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

Research seminar on women's history. 10-10-94

**HIST8890 - Comprehensive Examination.**

*No credits.*

This course is for the students who are working to take the comprehensive examination before enrolling in thesis. This course could be repeated up to a maximum of two semesters. The student could withdraw the course only one time.

**HIST8891 - Doctoral Thesis.**

*No credits. Prerequisites: 18*

Writing of thesis in its traditional format.

**HIST8892 - Doctoral Thesis Continuation.**

*No credits. Prerequisites: 30*

Continuation of writing of thesis in its traditional format.

**HIST8900 - Doctoral Thesis Proposal.**

*Three credits. Prerequisites: 18*

Preparation of a proposal for original research based on primary sources. 10-10-94

**INGL6005 - Contemporary American Drama.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STANDING OR PERMISSION OF THE PROFESSOR.*

American drama after world war-II, with special emphasis on the plays of Arthur miller, Tennessee Williams, and Edward Albee. 10-10-94

**INGL6021 - (premodern) Myths and Monsters.**

*Three credits. Three hours of seminar per week.*

This course will study literary representations of myths and monsters, comparing texts from a variety of geographical and temporal contexts, including for example, medieval Anglo-Saxon, European, pre-Columbian, Caribbean and/or global contexts. Theoretical readings encourage reflection on concepts such as monster, hero, authority, ethics and war. Course offered face-to-face, hybrid and online. Effective August 2022.

**INGL6029 - Seminar in Special Topics in Literature.**

*3 credits. Two hours lecture and one hour discussion per week Prerequisites: TO BE MATRICULATES IN A PROGRAM GRADUATE IN UPR. AUTORIZATION OF TEACHER.*

A specialized topic course reflecting current trends and issues in the study of literature and culture. Topics vary per semester. Theme: literature of the Puerto Rican diaspora. P. H. Online.

**INGL6035 - Modern African Fiction.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STANDING.*

Study of the formal development of the novel and short story in the English language areas of Africa since 1950. Course offered presential, hybrid and online. Effective January 2021. 10-10-94

**INGL6036 - Afro-American Fiction.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENTS OR AUTHORIZATION OF THE PROFESSOR.*

A study of some of the major novels and short stories by Afro-American writers from William wells brown to the present. 10-10-94

**INGL6037 - Studies in Fiction.**

*Three credits. Three hours of seminar per week Prerequisites: BEING REGISTERED IN A GRADUATE PROGRAM AT THE RIO PIEDRAS CAMPUS.*

A specialized topic course reflecting trends and issues in the study of fiction. Topics vary per semester. Course offered presential, hybrid and online. Effective January 2021.

**INGL6038 - Caribbean Young Adult Literature.**

*Three credits. Three hours seminar per week.*

An introduction to the writers of young adult Anglophone Caribbean literature and their works, with special emphasis on theoretical approaches, its history and development, and contemporary themes such as identity formation, nationhood, gender, urban conflict, the environment and migration.

**INGL6039 - Caribbean Children's Literature.**

*Three credits. Three hours of seminar per week.*

An introduction to Anglophone Caribbean literature for and about children which includes theoretical approaches, its history and development, and comparisons with the children's literature of the rest of the Caribbean.

**INGL6045 - Seminar on Language and Culture.**

*3 credits. Three hours of lecture per week Prerequisites: GRADUATE STANDING OR AUTHORIZATION OF THE PROFESSOR.*

An analysis of cultural and social organization of means of speech.

**INGL6046 - Preraphaelites, Decadents and Esthetes.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENTS OR AUTHORIZATION OF THE DEPARTMENT CHAIRMAN.*

Literary movements of the latter part of the nineteenth century in England with attention to the theoretical and actual parallels between that work and the work of Poe in America, the French symbolist poets, and modernismo. 10-10-94

**INGL6049 - Seminar in Contemporary Us Latino/a Literature.**

*3 credits. Prerequisites: TO BE REGISTERE IN A GRADUATE PROGRAM IN THE UPR AND TO BE AUTHORIZED FOR THE PROFFESSOR.*

A comprehensive study of contemporary U.S. Latino/a literature within a social/cultural/historical framework that lends itself to theoretical readings and in-depth critical literary analysis.

**INGL6051 - Syntax I.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 4207 AND/OR ENGL 4205 OR ITS EQUIVALENT.*

A detailed analysis of a large number of syntactic phenomena in English and relevant theoretical issues. Course face-to-face, hybrid and online modalities. 10-10-94

**INGL6052 - Syntax II.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 4207 AND/OR ENGL 4205 OR ITS EQUIVALENT; ENGL 6051.*

A detailed analysis of a large number of syntactic phenomena in English and relevant theoretical issues. 10-10-94

**INGL6057 - Writing Fiction.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: DOMINION OF THE ENGLISH.*

Intensive, individual work in the writing of fiction for advanced students.

### **INGL6059 - Current Trends in Literary Theory and Criticism.**

*Three credits. One hour of lecture and two hours of discussion per week.*

A specialized topic course reflecting current trends in literary theory and criticism. Topics vary per semester.

### **INGL6065 - Narrative and The City in the 19 Century.**

*Three credits. One hour of lecture, two hours of discussion and three hours of independent study per week*

The study of the connection between the British novel and the city. Includes the latest literary, cultural and ideological critique. Analysis of the crucial role the city plays in their formal, structural and thematic aspects.  
8-14-2000

### **INGL6066 - Texts, Authors and Their Critics.**

*Three credits. Three hours of seminar per week.*

This course will focus on one related set of authors and their texts, as well as the criticism surrounding their work.

### **INGL6067 - Studies in Literature and Film.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: GRADUATE STANDING.*

A specialized topic course reflecting trends and issues in the study of film and literature. Topics vary per semester.

### **INGL6068 – Literature as A Model for Writing.**

*Three credits. One hour and half of lectures and one hour and half of discussion per week.*

Research of the application of linguistic theory to language learning. Emphasis on using published poems, short stories, autobiographical writing, dramatic dialogues, children's literature and folk tales from Puerto Rico, the United States and the Caribbean as models for developing creative writing techniques. Students will practice various creative writing forms, as well as improve editing and revising skills.

### **INGL6069 - Minority Literatures and Cultures of The Caribbean.**

*Three credits. One hour of conference, one hour of discussion and one hour of investigation per week.*

An interdisciplinary study of the literary representations of cultural groups whose histories and cultural productions, though integral to the formation and development of Caribbean cultures and literatures have been either neglected, erased, marginalized and or silenced in the booming scholarship in Caribbean literary and cultural studies programs. This course will therefore explore the voices and literary representations of these minority groups including but not limited to the Chinese, Arabs, jews, limanese, Muslims, and other minority groups in the Caribbean. This course offered presential, hybrid and online. Effective January 2021.

### **INGL6100 - Introduction to Linguistic.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week.*

Designed for students who have little or no background in linguistic and the study of language. The course includes an introduction to the study of contemporary linguistic theory in the following areas: phonetics and phonology, syntax, semantics, applied linguistics, discourse analysis, as well as language variation and change. The course has a two-fold purpose: to familiarize the student interested in language instruction with field specific problems and terminology, and to provide a theoretical background for those interested in continuing the study of language.



**INGL6105 - Gender and Sexuality Discourses.**

*Three credits. Prerequisites: AUTHORIZATION OF PROFESSOR*

Introduction to the paradigms that inform influential theories of gender and sexuality. An exploration of the ways various discourses of gender and sexuality construct the relationship between theory and practice, and identity and community.

**INGL6106 - Applied Linguistic.**

*Three credits.*

This course considers how the field of linguistics contributes to the solution of real-world problems involving language learning/teaching, language testing, curriculum design, literacy, and language planning. It examines ways in which a second language can best be learned and taught, social factors that affect language learning, the relationship between spoken and written languages, methods used for achieving literacy around the world, and efforts to plan language as human resource. All material presented is applied to the existing language situation of Puerto Rico in order to clarify for student's possible avenues for change in their praxis as teachers.

**INGL6127 - Seminar In 20th-century U. S. Literature.**

*3 credits. Two hours lecture and one hour discussion per week Prerequisites: TO BE MATRICULATE IN A PROGRAM GRADUATE IN THE UPR. AUTHORIZATION PROFESSOR.*

A study of the literary forms and shifts in period style as well as the cultural logic that informed u. S. Literature of the twentieth-century.

**INGL6205 - Seminar on Critical Writing.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**INGL6400 - Afro-American Drama and Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS OR PERMISSION OF THE PROFESSOR.*

A study of some of the major dramas and poems by Afro-American writers from Lucy Terry to the present. 10-10-94

**INGL6405 - Seminar in Nineteenth-century American Literature.**

*Three credits. Three hours of lecture per week.*

Study of a literary theme involving selected writers of the century. The theme will vary from time to time. 10-10-94

**INGL6406 - The Age of O'Neill.**

*Three credits. Three hours per week.*

The American drama before Edward Albee, with special emphasis on the plays of Eugene O'Neill. 10-10-94

**INGL6407 - Contemporary British Drama.**

*Three credits. Three hours of lecture per week.*

British drama after the world war-II. 10-10-94

**INGL6408 - Comparative Analysis of The Phonology Of English And Spanish.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. AND PREVIOUS COURSE IN PHONETICS OR PHONEMICS.*

Phonetic and phonemic analysis of the sound system of English and Spanish, including major dialectal

varieties. Vocalic, consonantal, and syllabic structures; stress and intonational patterns. 10-10-94

**INGL6409 - Critical Writing: Drama.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

Practical written exercises in contemporary criticism, followed by discussion. Emphasis on practice rather than theory. Either fiction or film may be substituted for drama from time to time. 10-10-94

**INGL6410 - Drama And Poetry Of The English-speaking Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENT.*

A study of poems and plays by writers of the English-speaking Caribbean such as Derek Walcott, Edward Kamau Brathwaite, Martin Carter, and Errol John. 10-10-94

**INGL6411 - Writing Poetry.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: FLUENCY IN ENGLISH AND AUTHORIZATION OF THE PROFESSOR BASED ON STUDENTS' WRITING SAMPLES.*

Intensive individual work in the writing of poetry. 08-07-98

**INGL6415 - Seminar In Literary Criticism And Theory.**

*3 credits. Three hours of lecture per week.*

Major theories and opinion held by critics. Practical exercises. Course offered presentational, hybrid and online. Effective January 2021.

**INGL6416 - Seminar on Twentieth Century British Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

Detailed study of poetry of an author with some attention given to his or her self-criticism as well as the criticism of others. 10-10-94

**INGL6417 - Seminar on The Post-world War II American Novel.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

A study of one or two major American prose writers of the twentieth century. The authors may vary from time to time. 10-10-94

**INGL6418 - Seminar in Modern American Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

Study of the poetry of four or five leading American poets, with consideration of criticism of their work. 10-10-94

**INGL6419 - Seminar in Pre-world War II British Fiction.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

A course designed to cover at least five major novelists of the period 1900 to world war-II, paying particular attention to their themes and techniques. 10-10-94

**INGL6420 - Gothicism to Naturalism in British Fictional Techniques.**

*Three credits. Three hours of lecture per week Prerequisites: BE A GRADUATE STUDENT.*

Romantic strain as seen through gothic, historical, detective and sensational novels; and the growth of realism and naturalism, with attention to innovations in structure and characterization. Selections from contemporary criticism. 10-10-94

**INGL6425 - Seminar In Seventeenth Century British Literature: Donne And Jonson.**

*Three credits. Three hours of lecture per week.*  
Trends in early 17th century poetry. 10-10-94

**INGL6426 - Chaucer.**

*Three credits. Three hours of lecture per week.*

Language, poetic and narrative techniques, French and Italian influences. 10-10-94

**INGL6427 - Whitman and Dickinson and Their Influence in The Twentieth Century.**

*Three credits. Three hours of lecture per week.*

The poetry of Walt Whitman and Emily Dickson and their influence on 20th century poets such as pound, Williams, and Cummings. 10-10-94

**INGL6428 - Seminar in Nineteenth-century American Literature: Romanticism And Transcendentalism.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR OF ARTS WITH MAJOR IN ENGLISH.*

An intensive study of earlier nineteenth-century American literature with stress on romanticism and transcendentalism. Focused on the major figures of the period: Poe, Hawthorne, Melville, Emerson, Thoreau and Whitman. 10-10-94

**INGL6429 - Women in Literature.**

*Three credits. Three hours of lecture per week Prerequisites: OPEN TO ALL GRADUATE STUDENTS.*

A study of the image of women in literature throughout the centuries; emphasis will be on works by major figures (Shakespeare, Milton, pope, etc.). 10-10-94

**INGL6430 - Shakespeare: Selected Topics.**

*Three credits. Three hours of lecture per week.*

Representative plays of each of the major kinds (tragedy, comedy, history, romance) will be covered, not necessarily grouped by kind. Course offered face-to-face, hybrid and online. Effective August 2020. Can be repeated two times up to 6 credits. 10-10-94

**INGL6431 – Shakespeare and The Question of Genre.**

*Three credits. Three hours of seminar per week Prerequisites: GRADUATE STATUS OR THE PROFESSOR'S AUTHORIZATION.*

A study of Shakespeare's plays and their reception, oriented particularly toward the genre expectations within which and against which Shakespeare worked and the historically important role genre criticism has played in the analysis of Shakespeare's plays, especially his comedies and romances. January 17, 2001.

**INGL6435 - The Grammatical Structures of English and Spanish.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. AND PREVIOUS UPPER LEVEL COURSES IN ENGLISH AND SPANISH GRAMMAR.*

A study of the similarities and differences between the principal syntactic structures of the two languages, such as basic and complex sentence patterns, phrase structures, uses of the parts of speech, and theory of tenses. 10-10-94

**INGL6436 - Restoration and The Eighteenth Century British Drama (1660-1800).**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE LEVEL STUDENTS OR PERMISSION OF THE DIRECTOR.*

Study of the plays of the restoration and the eighteenth century. The critical background of these plays and the importance of this theater to the development of English theater. 10-10-94

**INGL6437 - Drama of The Tudor and Stuart Period.**

*Three credits. Three hours of lecture per week.*

Selected readings from the dramatic work of Iyly, Kyd, Marlowe, Jonson, Beaumont and Fletcher, and others excluding Shakespeare. 10-10-94

**INGL6438 - Sex, Love and Marriage In Restoration And Eighteenth-century British Literature.**

*Three credits. Three hours of seminar per week.*

Seminar on the study of the portrayal of sex, love and marriage and related issues of gender roles, legal and cultural considerations which affected these as portrayed in the poetry, prose, drama and fiction from the restoration to the regency (1660-1820). 12-01-2000

**INGL6439 - Studies in Poetry.**

*Three credits. Three hours of discussion per week.*

A specialized topics course reflecting trends and issues in the study of poetry. Topics vary per semester. This course repeat to a maximum 9 credits. Course offered face-to-face, hybrid, and online. Effective August 2020.

**INGL6440 - Seminar in English Language: American Dialects.**

*Three credits. Three hours of lecture per week.*

Phonological, grammatical and lexical variations of spoken English in North America and the Caribbean. 10-10-94

**INGL6446 - Seminar in Language And Literature: The Language Of Earlier Literature.**

*Three credits. Prerequisites: B.A.*

Detailed study of the language and rhetoric of literary texts spanning one hundred year periods. 10-10-94

**INGL6447 - Studies in Drama.**

*Three credits. Three hours of seminar per week Prerequisites: GRADUATE STUDENT OR CONSENT OF THE PROFESSOR.*

A specialized topic course reflecting trends and issues in the study of drama. Topics vary per semester.

**INGL6449 - Seminar in Major Themes In Medieval And Renaissance Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

A study of a series of works on single theme which source study and comparative analysis will be used in order to read the works in their largest possible contexts. Considerations of European backgrounds followed by close analysis of the main texts. 10-10-94

**INGL6450 - Seminar in The Eighteenth Century British Novel.**

*Three credits. Three hours of lecture per week.*

The major novelists of the period (Defoe, Richardson, Fielding, Sterne and Smollett), with particular attention to their contributions to the emerging novel form. 10-10-94

**INGL6455 - Seminar: The Neoclassical Movement In The Age Of Samuel Johnson.**

*Three credits. Three hours of lecture per week.*

An intensive consideration of the literary concepts of the age as exemplified in representative prose, poetry and drama, excluding the novel. 10-10-94

**INGL6456 - English Satire in The Eighteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

Terms and definitions; classical satire; folk origins and parallels; motifs; forms; rhetorical devices; tone. Class reports on earlier and later aspects of English satire, parallels and contrasts. 10-10-94

**INGL6457 - Seminar on Seventeenth Century British Literature: Milton.**

*Three credits. Three hours of lecture per week.*

The poetry and prose of John Milton, with particular attention to paradise lost. 10-10-94

**INGL6458 - The Romantic Quest.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR OF ARTS.*

Background and general trends of the romantic movement in England. The major poets: Wordsworth, Coleridge, Byron, Shelly and Keats; representative literary criticism, and letters and memoirs which deal with the major figures will be studied. 10-10-94

**INGL6460 - The Victorian Poets.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

A study of the major Victorian poets: Tennyson, Browning, Arnold; and selections of the minor ones. The course will include prose works dealing with poetics and aesthetics. 10-10-94

**INGL6465 - Wordsworth to Arnold: The Sources of Modern Thought in Nineteenth-century Literature  
Wordsworth to Arnold, The Sources of Modern Thought in Nineteenth Century And Social Criticism.**

*Three credits. Three hours of lecture per week.*

Selected criticism of Wordsworth, Coleridge, with emphasis on the preface to lyrical ballads and Biographia literaria; romantic essayists: Hazlitt, Lamb, de Quincy, Hunt, Peacock, major Victorian prose writers: Carlyle, Mill, Newman, Arnold, Ruskin, and Pater. Social novelists: Gaskell, Dickens, Charles Kingsley. 10-10-94

**INGL6466 - Seminar on Bilingualism.**

*3 credits. Three hours of lecture per week Prerequisites: GENERAL CONCEPTS OF LINGUISTICS.*

A socio-linguistic study of bilingual and bidialectal problems in their cultural settings in Puerto Rico, the Americas and elsewhere.

**INGL6467 - History and Development Of The English Language In The United States.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

The historical background and development of American English from its seventeenth century origins to the present, with special attention to the development of a standard non-British variety and of non-standard dialects. 10-10-94

**INGL6468 - Seminar in The Post-world War II British Novel.**

*Three credits. Three hours of lecture per week.*

Particular attention will be given to the works of John Braine, Allan Sillitoe, David Storey, and Raymond Williams. 10-10-94

**INGL6469 - Sociolinguistics and American Creole Language.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

Study of language and culture in terms of recent research and theory, with special attention to creole languages. Course offered presential, hybrid and online. Effective January 2021. 10-10-94

**INGL6470 - Seminar in American Literature: Realism and Naturalism.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

American literature of the latter nineteenth and early twentieth centuries with emphasis on the realistic and naturalistic movements in fiction. Major writers of the period: Twain, Howells, James, Crane, and Dreiser. 10-10-94

### **INGL6475 - Dialectology of The English-speaking World.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENT OR PERMISSION OF THE PROFESSOR.*

A study of English as a native, second, and international auxiliary language. The methodologies used to describe these "Englishes" and an analysis of the structures and evaluations of these varieties. 10-10-94

### **INGL6480 - The Age of Shaw.**

*Three credits. Three hours of lecture per week.*

British drama before World War II, with special emphasis on the play of Shaw. 10-10-94

### **INGL6485 - Seminar in Pre-World War-II American Novel.**

*Three credits. Three hours of lecture per week.*

A course designed to cover at least three major American novelists of the period 1900 to World War II, paying particular attention to their themes and techniques. 10-10-94

### **INGL6486 - Caribbean Theory and Literature.**

*Three credits. Two hours of conference and one hour of discussion per week Prerequisites: MUST BE A GRADUATE STUDENT OR HAVE PERMISSION OF THE PROFESSOR.*

The study of literary and cultural theory from the Caribbean in relation to literary texts from the region. Course offered face-to-face, hybrid and online. Effective August 2022. 12-08-97

### **INGL6488 - Literature and Language of The English-speaking Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

The leading contemporary poets and novelists with special attention to their use of English Creole dialects and with some reference to their socio-economic and historical background. Course offered presentational. Hybrid and online. January 2021. 10-10-94

### **INGL6489 - Caribbean Fiction.**

*Three credits. Three hours of seminar per week Prerequisites: B.A. AND/OR PERMISSION OF THE PROFESSOR.*

The study of novels and short fiction by writers of the English-speaking Caribbean with special emphasis on the development of distinctively Caribbean themes, techniques and language. Course offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **INGL6490 - Introduction to The Anglo-Saxon Language and Literature.**

*3 credits. Three hours of lecture per week.*

A study of the grammar, syntax, vocabulary and phonology of Anglo-Saxon. Selected reading from Anglo-Saxon prose and poetry.

### **INGL6491 - Studies in Anglo-Saxon Literature.**

*Three credits. Three hours of seminar per week Prerequisites: ENGLISH 6490.*

A focused study of the major works of Anglo-Saxon literature in their textual and cultural contexts. 19-01-2000

### **INGL6495 - The Grammar of Modern English.**

*Three credits. Three hours of lecture per week Prerequisites: ENGL 4206 OR PERMISSION OF THE PROFESSOR.*  
The uses of the various parts of speech, word formation, spelling. 10-10-94

**INGL6496 - Seminar in English Language: Problems in The Analysis Of Contemporary English.**

*Three credits. Three hours of lecture per week.*

Varieties of linguistic theories currently maintained, and differences in specific procedures. Course face-to-face, hybrid and online modalities. 10-10-94

**INGL6497 - Seminar in Colonial And 18th Century American Literature.**

*3 credits. Three hours of seminar per week Prerequisites: ADMITTED TO THE GRADUATE PROGRAM OR AUTHORIZATION OF THE DIRECTOR.*

A study of English-language writings from the beginnings of exploration and colonization of the u. S. A. Through the eighteenth century. Major emphasis on Anne Bradstreet, Edward Taylor, and Michael Wigglesworth, with attention as well to the background of religion, history, and politics that leads up to American romanticism. Secondary emphasis on genres such as narratives, sermons, biography, journals, diaries.

**INGL6499 - Seminar in English Phonology.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Structural, generative, and natural approaches to English phonology. Course offered presential, hybrid and online. Effective January 2021. 10-10-94

**INGL6505 - Seminar in English Semantics.**

*Three credits. Three hours of lecture per week.*

A study of selected semantic phenomena of modern English, and proposals for their representation in comprehensive grammatical descriptions. Individual projects on several topics in the field. Course offered face-to-face, hybrid and online. Effective August 2022. 10-10-94

**INGL6507 - The Acquisition of English: A Psycholinguistic Perspective.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR.*

Language comprehension, production, and acquisition are considered from a theoretical standpoint. Linguistic research testing the various models of language acquisition is examined. 10-10-94

**INGL6509 - The Modern Rhetoric of Western Civilization.**

*Three credits. Three hours of lecture per week.*

A survey of the significant rhetorical theories grounded in the classical tradition of Plato and Aristotle. 10-10-94

**INGL6515 - Film and Literature: Collaborative Forms.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The study of the relationship between film and literature with particular regard to the way in which both art forms have technically and thematically influenced, and at certain unique moments, collaborated with each other. Works or scripts of literary figures such as Shakespeare, Hammett, Conrad, Forster, Fitzgerald, Hemingway and Faulkner are studied. Films by directors as ford, Houston, Welles, and Branagh will be screened. 10-10-94

**INGL6517 - Literary Criticism and Film Theory.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: B.A. OR AUTHORIZATION OF THE PROFESSOR.*

Examination of the way in which the schools of literary criticism gave rise to the beginnings of film theory in the 20th century. These schools will be approached by a close study of the literary and films theories developed by theoreticians and filmmakers. The following schools will be considered: formalism, realism, auteur, structuralism and semiotics, phenomenology. 10-10-94

### **INGL6891 - Research Essay in English Literature I.**

*Three credits. Three hours of research per week Prerequisites: 27*

Study and development of the research methods and sources necessary for the successful writing of a research essay in English-language literature and culture. Special emphasis is placed on archival and bibliographical research in literature, creative writing, literary history, oral literature and performance the focus on print, electronic, fieldwork, and experimental research varies in relation to the nature of the chosen theme of the essay.

### **INGL6892 - Research In English Literature Ii.**

*Zero credits. Prerequisites: 27*

Continuation of the study and development of the research methods and sources necessary for the successful writing of a research essay in English- language literature and culture. Special emphasis is placed on archival and bi bibliographical research in literature, creative writing, literary history, or al literature, and performance. The focus on print, electronic, fieldwork, and experimental research varies in relation to the nature of the chosen theme of the essay.

### **INGL6893 - Research Essay in English Linguistics I.**

*Three credits. Three hours of research per week Prerequisites: 27*

Study and development of the research methods and sources necessary for the successful writing of a research essay or project in English-language, linguistics, and culture. Special emphasis is placed on archival and bibliographical research in the study of language and linguistics. The focus on print, electronic, fieldwork and experimental research varies in relation to the nature of the chosen theme of study.

### **INGL6894 - Research Essay in English Linguistics II.**

*Zero credits. Three hours of research per week Prerequisites: TO HAVE APPROVED 27*

Continuation of the study and development of the research methods and sources necessary for the successful writing of a research essay or project in English-language, linguistics, and culture. Special emphasis is placed on archival and bibliographical research in the study of language and linguistics. The focus on print, electronic, fieldwork, and experimental research varies in relation to the nature of the chosen theme of study.

### **INGL6895 - Thesis.**

*No credits. Prerequisites: TOTAL OF COURSES REQUIRED FOR THE DEGREE.*

A research project completed under the supervision of a faculty advisor. Final requirement for degree. 10-10-94

### **INGL6896 - Thesis Continued.**

*No credits. Prerequisites: ENGL 6895.*

A thesis, completed and approved, is a requisite form. A. Degree in English. 10-10-94

### **INGL6905 - Independent Study.**

*Three credits. Prerequisites: TWELVE GRADUATE*



Independent study on a topic in literature or linguistics, not offered in a regular course, arranged between a professor and student. The course may be taken a maximum of two (2) times (six (6) credits). Course offered face-to-face, hybrid and online. Effective August 2020 16-01-02

**INGL8005 - Pidgin and Creole Languages.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6469*

A diachronic and synchronic analysis of English-based creoles, and the study of current theories of the processes of pidginization, creolization and decreolization. 12-01-2000

**INGL8006 - The Encounter Between Africa and The West.**

*Three credits. Three hours of seminar per week Prerequisites: MA IN ENGLISH OR SIMILAR AREAS AND INGL 6488 OR ITS EQUIVALENT.*

A study of the discursive relationship between Africa and the west during the last five hundred years, with a focus on some of the major European, African, and Caribbean texts that deal with racism, slave trade, slavery, colonialism, and neocolonialism. 12-01-2000

**INGL8007 - Seminar Language Birth and Language Death.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6467 OR 6475 OR 6466 OR 6045 OR 6469 OR CONSENT OF THE PROFESSOR.*

Analysis of the "life cycle" of languages, beginning with birth and proceeding through change, spread, maintenance, shift, death, and revival. These stages are considered from the perspective of the individual speaker as well as that of the speech community. The causes, processes, and results of each stage are delineated, and language planning is explored as a means of regulating the cycle. Special attention is paid to the role of English in the world today and to the complicated language situation of the Caribbean; however, examples are taken from the full gamut of human language varieties. August 14, 2000.

**INGL8008 - The Art of Derek Walcott.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6488 AND 6410 OR CONSENT OF THE PROFESSOR.*

The study of Walcott's artistic maturation through the four decades in which he has been the leading Caribbean poet and playwright writing in English. The point of departure is historical: colonial St. Lucia of the 1930's and 40's, Walcott's childhood and conventional education, and the "condition" of early 20th century west Indian poetry. Walcott's interest in painting, poetry, and theater will be included. August 14, 2000.

**INGL8009 - Language Acquisition and Creoles.**

*Three credits. Two hours lecture and one hour discussion per week Prerequisites: INGL-6051, INGL-6469, Ò INGL-6507. AUTHORIZATION WITH PROFESSOR*

Certain issues in the field of language acquisition, both first and second, can provide valuable insights to the field of creole studies, and vice versa. This course addresses those issues which are relevant to both fields, such as simplification, lexification, expansion, etc., and reviews the various debates for and the universalist positions.

**INGL8010 - Caribbean Children's and Young Adult Literature Three Credits. Three Hours of Seminar Per Week. Prerequisite: INGL 6488 Or Consent of the professor.**

*Professor. credits.*

Exploring the literature addressed to children and young adults in the context of recent political independence in the Caribbean. Becoming familiar with the most suitable critical and theoretical approaches to the decolonizing of the imagination and cultural production. Reading of folk tales and fables as well as works by outstanding writers who have artfully expressed the transition to and consolidation of national

independence and authenticity. Emphasis on the didactic purpose of the readings: instilling in Caribbean children a sense of pride in their newly independent nations. August 14, 2000.

### **INGL8015 - V.s. Naipaul.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6488 AND 6489 OR PROFESSOR'S AUTHORIZATION.*

A study of v. S. Naipaul's prolific writing, which includes novels, short fiction, history, essays, autobiography, travel writing, and an innovative combination of various prose genres. The course examines the author's controversial exploration of the colonial/postcolonial "condition" in his native Trinidad, the Caribbean region, Latin America, Africa, India, and the Islamic world. January 17, 2001.

### **INGL8016 - Oral and Scribal Traditions of Caribbean Verse.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6410 AND 6488 OR PROFESSOR'S AUTHORIZATION.*

The history and development of Anglophone Caribbean poetry and poetic oral expression. The evolution of secular and religious expression and folk lyrics of the plantation slavery, colonial, and national eras into the sophisticated popular traditions of reggae, and calypso lyrics, folk poetry, and performed "deb" of the 20th century. Focus on the emergence of a distinctive and impressive body of Caribbean written poetry that incorporates the aesthetics of diverse regional and global poetic traditions. January 17, 2001.

### **INGL8017 - Phonological Aspects of Caribbean Creoles.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6488, 6499 AND 6469 OR PROFESSOR'S AUTHORIZATION.*

A study of the major phonological aspects of primarily English-derived Caribbean creoles and their connection with other creoles, European and African languages. January 17, 2001.

### **INGL8018 - Caribbean Drama and Performance.**

*Three credits. Two hours of discussion and one hour of lecture per week Prerequisites: INGL 6488 AND 6410 OR PROFESSOR'S AUTHORIZATION.*

A close examination of the development of 20th century Caribbean drama and performance as a cultural mosaic that reflects 1) the rich tradition of syncretic folk festivals, plays, masquerades, and spectacles drawn from the diverse origins of the majority population, 2) the formal literary or "art" theatre from classical Greek, Asian, and European sources to the present day, and 3) the uniquely multicultural, multilingual social milieu of the post-colonial Caribbean. Course offered face to face, hybrid and online course. Effective August 2020. 14-08-01

### **INGL8019 - Fieldwork in Caribbean Languages: Methodology and Analysis.**

*Three credits. Two hours of lecture and one hour of discussion Prerequisites: INGL 6488, 6469 AND 6045 OR PROFESSOR'S AUTHORIZATION.*

Discussion of the problems and principles of studying language in its social and cultural context. Focus on fieldwork methodology, in particular the collection, analysis and interpretation of data and their interrelationships. The research paradigms developed by William Labov and Dell Hymes are examined as well as the recent studies that have provided adaptations. These field methodologies serve as the basis for analysis of earlier and current forms of Caribbean languages. 14-08-01

### **INGL8020 - Caribbean Women's Fiction.**

*Three credits. Two hours of discussion and one hour of lecture per week Prerequisites: INGL 6488 AND 6489 OR PROFESSOR'S AUTHORIZATION.*

Analysis of fiction by Caribbean women writers in the context of recent critical approaches, such as narrative,

feminist/womanist, postcolonial, historical and socio-political theories. Course offered presential, hybrid and online. Effective January 2021. 14-08-01

### **INGL8026 - Caribbean Literature in Metropolitan Context.**

*Three credits. Two hours of discussion and one hour of lecture per week Prerequisites: INGL 6488 OR PROFESSOR'S AUTHORIZATION.*

A study of the experience of migration from primarily the Anglophone Caribbean to Europe and north America-marked by 20th century historical events such as economic depression, world war II, independence, globalization-as recorded in fiction, screenplays, travel writings, memoirs, and testimonies by Caribbean authors writing in metropolitan centers. 14-08-01

### **INGL8027 - Language Typology and Creole Language.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6488 OR INGL 6469 OR INGL 6475 OR INGL 6530 OR PROFESSOR'S AUTHORIZATION.*

A study of the typological relations between creoles, substrata, lexifiers, and other language. This course discusses similarities and differences between creoles from a formal typological perspective (Whaley 1997: 7): "the classification of languages or components of languages based on shared formal characteristics." Class discussion centers on the typological affiliation of creoles according to descriptions from previous studies and new data incorporated into class discussions. Course offered face-to-face, hybrid and online. Effective August 2020.

### **INGL8028 - The Historiography of Travel Writing.**

*Three credits. Two hours lecture and one hour discussion per week Prerequisites: INGL-6488 (THE LITERATURE, LANGUAGE AND CULTURE OF THE ENGLISH- SPEAKING CARIBBEAN) AUTHORIZATION WITH PROFESSOR.*

Explores how travel writing helps determine images of 'other peoples and other lands', through which an image and/or identity of 'home' is constructed. It examines historical accounts of travel logs and experiences and contrasts them with modern travel documents.

### **INGL8035 - Postcolonial Theory and Caribbean Literature.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: INGL 6488, 6486 OR PROFESSOR'S AUTHORIZATION.*

A study of the major approaches, texts, and critiques of colonial discourse analysis and post-colonial literary theory and their connection to Caribbean issues and literary texts. January 16, 2002.

### **INGL8045 - Independent Study.**

*Three credits. Three hours of discussion per week Prerequisites: APPROVAL OF THE GRADUATED MEETING (STEERING COMMITTEE).*

Independent study course on a topic in literature or linguistics, not offered as a regular course, arranged between professor and student. The course may be taken only once. Course offered presential, hybrid and online. Effective January 2021.

### **INGL8046 - Seminar on Language and Identity In The Caribbean.**

*Three credits. Three hours of seminar per week*

In this course, we will look at the development of identity in the Caribbean through a close reading of texts extracted for their historical, socio- logical, cultural, linguistic and literary relevance

### **INGL8080 - The Caribbean and Global Issues Of Form Theory And Analysis.**

*Three credits. Prerequisites: INGL 6488. DEPENDING ON THE TOPIC TO STUDY, IT CAN REQUIRE OTHER LEVEL*

*6000 ENGLISH COURSES OR PROFESSOR AUTHORIZATION.*

The exploration of different contemporary (global) issues of literary form, cultural theory, and linguistic analysis as they affect the study of the literature, language, and culture of the Anglophone Caribbean. The course can be repeated a maximum of three times under different subtitles. Course offered face to face, hybrid and online. Effective August 2020. 01-16-02

**INGL8099 - Research in Caribbean Literature and Linguistics.**

*Zero credits. One hour of investigation per week Prerequisites: CONSENT OF THE ADVISOR AND COMPLETION OF FIVE 8000 LEVEL*

Zero credits. One hour of investigation per week Prerequisites: CONSENT OF THE ADVISOR AND COMPLETION OF FIVE 8000 LEVEL

**INGL8105 - Tense, Mood, And Aspect In Caribbean Creoles.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6488, INGL 6469, INGL 6051 OR PROFESSOR AUTHORIZATION.*

Study of the verbal systems of primarily English - derived Caribbean creoles, including basic morphological, syntactic, and semantic features. Requires comparative study of creoles, and an analysis of general features shared by creoles, and primarily European and African languages. 13-08-02

**INGL8106 - Seminar In Language And Power: The Construction Of Socio-political Discourse In The Caribbean And Beyond.**

*Three credits. Prerequisites: INGL 6488 OR INGL 6045 OR EQUIVALENTE COURSE OR AUTHORIZATION OF PROFESSOR.*

Three credits. Prerequisites: INGL 6488 OR INGL 6045 OR EQUIVALENTE COURSE OR AUTHORIZATION OF PROFESSOR.

**INGL8107 - Imagining Caliban: The Presence of The Caribbean In The American Imaginary.**

*Three credits. Prerequisites: INGL 6488 OR EQUIVALENT COURSE*

The exploration of the Caribbean (its region and its people) as a presence that informs the texture of the American imaginary in the formulation of an identity and in the production of a definition of aesthetics that affect literature, cinema, and popular culture.

**INGL8109 - The Political Novel in The Caribbean.**

*Three credits. Three hours of seminar per week Prerequisites: INGL 6488, INGL 6489 OR AUTHORIZATION WITH PROFESSOR*

The study of specific novels by 20th and 21st century Caribbean writers which focus on political aspects- patriarchy, working-class struggles, the formation of political movements, countryside to city and intra-island population movements, relations to metropolitan centers-of distinct Caribbean societies.

**INGL8201 - Seminar on Fieldwork on The Languages and Cultures of The Anglophone Afro-Caribbean.**

*Three credits. Three hours of seminar per week.*

This course has three parts. It begins with a survey of the growing body of academic work that focuses on fieldwork in the current era of globalization, written by specialists from a wide spectrum of fields including linguistics, philosophy, anthropology, and postcolonial studies. During this component, students will also survey the scholarly work already done on the language and culture of their target group. The second part takes students to the field in the Anglophone Afro-Caribbean to collect data and introduces them to the techniques and skills necessary to prepare and carry out a fieldwork experience. The third part of the course ends with the linguistic and cultural analysis of the data collected. Course offered presential, hybrid and

online. Effective January 2021.

**INGL8301 - Literature from the Hispanophone Caribbean In Diaspora.**

*Three credits. One hour of lecture, one hour and a half of discussion and half hour of investigation per week.*

A comprehensive and critical study of literary works by authors from the Hispanophone Caribbean in diaspora, written or translated into English. Texts may include code-switching. The course will focus on authors from Puerto Rico, Cuba, and the Dominican Republic who experienced a migration process to the United States or authors born in the us to island emigres. This course will be offered face-to-face, hybrid and online modalities.

**INGL8890 - Writing of Doctoral Critical Essays.**

*Zero credits. One hour of investigation per week Prerequisites: INGL 8099*

Preparation and writing of an extensive critical essay in a primary area and two substantial critical essays in two additional secondary study areas as requirements to advance to doctoral candidacy. Course offered face to face, hybrid and online. Effective August 2020. 13-08-02

**INGL8891 - Dissertation I.**

*Zero credits. One hour of dissertation per week Prerequisites: INGL 8890*

Submission and defense of dissertation proposal and completion of the initial stage in the writing of the dissertation. 13-08-02

**INGL8892 - Continuation of Dissertation.**

*INGL8892 - Continuation of Dissertation. Prerequisites: INGL8895*

Continuation of the writing of the doctoral dissertation. New title since August 2008

**INTR6005 - Introduction to Consecutive Interpretation.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE PROGRAM.*

The student will read or listen to texts and summarize them, orally or in writing, in the second language. The student will interpret consecutively, in the second language, texts read or presented orally. 10-10-94

**INTR6006 - Introduction to Simultaneous Interpretation.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR OF THE PROGRAM.*

The student will interpret, simultaneously, in the second language, texts read or spoke in the original language. Both texts will be recorded for evaluation. 10-10-94

**INTR6007 - Advanced Practice in Simultaneous Interpretation.**

*Three credits. Three hours of laboratory work per week Prerequisites: INTR 6006.*

The student will interpret simultaneously texts of varying difficulty. Recording will be made for evaluation. 10-10-94

**INTR6008 - Specialized Interpretation.**

*Three credits. One hour of discussion and two hours of practice per week Prerequisites: AUTHORIZATION OF THE DIRECTOR OF THE GRADUATE PROGRAM OF TRANSLATION.*

The student will do research into the terminologies and the usages of the various areas of specialization. 10-10-94

**INTR6009 - Advanced Practice in Consecutive Interpretation.**

*Three credits. One hour of lecture and two hours of oral practice per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE PROGRAM.*

The student will interpret consecutively texts of varying difficulty; read or spoken. Recording of the interpretation will be made for evaluation. 10-10-94

### **LING6000 - Articulatory Phonetics.**

*Three credits. Three hours of lecture and six hours of laboratory work per week.*

Discrimination production, and transcription of the sounds of natural languages; these skills are indispensable for research in phonology. 10-10-94

### **LING6001 - Theoretical and Practical Contemporary Linguistics.**

*Three credits. One hour and a half lecture and one hour and a half of discussion per week.*

Study of the principles of linguistic analysis to develop theoretical and research abilities in this discipline. Graduate students are exposed to various of the branches of linguistics while identifying basic units in the areas of phonetics-phonology, morphosyntax, lexical semantics, and pragmatics. At the end of the semester, students propose a linguistic phenomenon on which to conduct research. This course is available in classroom, face-to-face, hybrid, and online modalities.

### **LING6005 - Lexicon and Semantics of The Spanish Language.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Study of theoretical fundamentals of semantics, taking into account their application to teaching of language. Identification and analysis of the meaning of the linguistic units (word, sentence and utterance). Relation between lexicology, lexicography and semantics. (c) this course face-to-face, hybrid and online. Effective January 2022.

### **LING6008 - Spanish in The United States: Grammars on Contact.**

*Three credits. Three hours of lecture per week Prerequisites: BE A GRADUATE STUDENT.*

Presentation of relevant theoretical and methodological issues related to problems of grammars in contact according to current research done on the Spanish of the United States (Mexican-American and Puerto Rican varieties). 10-10-94

### **LING6010 - General Linguistics.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Study of the most important aspects of the history of linguistics and analysis of the ideological context and methodology of the different schools of contemporary linguistics. This course face-to-face, hybrid and online. Effective January 2022. The effective prerequisite is removed of January 2022. 10-10-94

### **LING6015 - Text Production: Towards Communicative Competence.**

*Three credits. Two hours of discussion and one hour of laboratory per week.*

Study of communicative strategies used in message production with intensive and systematic computer-aided practice. Exercises aim to develop language skills by means of systematic analysis and synthesis operations. Detailed discussion of acceptable and ungrammatical alternatives in cohesion of discourse. (c)

### **LING6020 - Research Methods In Modern Linguistics.**

*Three credits. Three hours of lecture per week.*

A seminar on the most recent methods of research in synchronic linguistics, including bibliographical sources and auxiliary equipment. Face-to-face, hybrid and online course. Effective January 2021. 10-10-94

### **LING6030 - Instrumental Phonetics.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*  
Descriptive and analytical study of language from the synchronic point of view. 10-10-94

### **LING6040 - Phonology.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE PROGRAM.*  
Analysis of the most outstanding phonological theories of the twentieth century. Course offered face-to-face, hybrid and online course. Effective August 2020. 10-10-94

### **LING6050 - Morphosyntax.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE PROGRAM.*  
Theory and practice of new directions on the analysis of morphology and sentence structures. Course offered presentational, hybrid and online. Effective January 2021. 10-10-94

### **LING6060 - Semantic Theory.**

*Three credits. Three hours of lecture per week.*  
Critical analysis of new trends on the theories of meaning and semantic structures. Course offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **LING6070 - Dialectology of Hispanic Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: LING 6010 OR SPAN 4011-4012.*  
Study of phonological, morphosyntactic, and lexicon-semantic aspects of varieties of Caribbean Spanish; sociological conditioning and problems of language contact and interference. Course offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **LING6080 - Plurilingualism: A Multidisciplinary Approach.**

*Three credits. Three hours of seminar per week Prerequisites: LING 6010. AUTHORIZATION OF THE PROFESSOR OF THE COURSE AND ACADEMIC ADVISER. Corequisites: IT CAN BE TAKEN CONCURRENTLY WITH ANYONE FROM THE COURSES OF LEVEL 6.*  
Study of plurilingualism from a multidisciplinary perspective. Examination and evaluation of theoretical models of various disciplines that deal with the study of the phenomenon of individuals and societies that use more than one language on a daily basis.

### **LING6100 - Generative Grammatic.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*  
A study of the theoretical antecedents which have led to the development of a generative model of linguistic description. Presentation of the formal elements of the requirement for a generative grammar. Syntactical and phonological components. Critical survey of the successes and failures of these models. 10-10-94

### **LING6105 - Eye Tracking in Linguistic Research.**

*Three credits. Two hours of seminar and one of workshop per week.*  
In this course we examine different linguistic studies that use the eye tracking technique in order to investigate both auditory comprehension and reading comprehension. In addition, there is course component consisting of a practical workshop on the procedures involved in the use of the eye tracking hardware and software in order to design and conduct linguistic experiments.

### **LING6106 - Code-switching.**

*Three credits. Three hours of seminar per week.*  
Detailed study of code-switching, a linguistic phenomenon that consists of the use of two or more languages in the same stretch of discourse. Examination of diverse theoretical approaches to the phenomenon and the

methodologies used in research on the topic. Discussion of the evolution of the study of code- code-switching by means of the critical analysis of academic articles that have been fundamental for its development.

### **LING6110 - Language Planning.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Introduction to the concepts of language planning, their implementation in the modern world and their application to the particular case of Puerto Rico. 10-10-94

### **LING6150 - Applied Linguistics.**

*3 credits. Seven and a half hours of lecture per week.*

Presentation of the application of linguistic study to the resolution of practical issues related to language use in diverse professional and social contexts. Examination of the occupations and professions that are most relevant to Spanish applied linguistics. Analysis of Spanish from a dynamic and multidisciplinary perspective. This course will be offered face-to-face, hybrid and online.

### **LING6170 - General.**

*Dialectology credits.*

A) synchronic dialectology: the single speaker and the community of speakers. Idiolect and dialect. Dialects as subsystem of a language. Diasystem language and dialectal norms. Dialect borders and linguistic systems: isoglosses. Dialect differences and social differences in an urban society. B) diachronic dialectology: dialect geography. Local differentiation and the comparative method. Linguistic change. The diasystem from a diachronic perspective. 10-10-94

### **LING6190 - Introduction to Sociolinguistics.**

*Three credits. Seven and a half hours of lecture per week.*

Study of language and society as correlative structures. Examination of the causes of the differences in the linguistic habits of members of a community taking into consideration: the speaker (sender) and his linguistic conscience; his listener (receiver), the environment, the synchronism and diachronism of language and all the extra-linguistic factors which may condition and determine the dialectal diversity within a social structure. Course offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **LING6210 - Psycholinguistics.**

*Three credits. Six and a half hours of lecture per week Prerequisites: BACHELOR DEGREE.*

Current approaches to experimental and developmental psycholinguistics, recent development in neurolinguistics. 10-10-94

### **LING6290 - Text Linguistics.**

*Three credits. Three hours of lecture per week Prerequisites: LING 6010.*

A study of the main trends of contemporary text-theory and text-linguistics; its accomplishments and limitations for discourse studies and discourse descriptions. (Course face-to-face, hybrid and online. Since August 2020. 10-10-94

### **LING6300 - Introduction to Mathematical Linguistics.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT OF LINGUISTICS.*

The study of mathematical and symbolic logic notions needed for the formal analysis of natural languages. 10-10-94



**LING6340 - Introduction to Computational Linguistics.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

The electronic equipment; computer's languages and linguistic research. Types of linguistics studies on computational linguistics. Course presents, hybrid and online. Effective January 2021. 10-10-94

**LING6355 - Language Devices for Text Editing.**

*Three credits. Three hours of workshop per week.*

Graduate students describe and apply language devices in the editing process of informative and research texts. Focusing on the principles for developing effective communication skills, and from an applied linguistics point of view, they edit fragments of research papers, abstracts, essays, brochures, reports and other non-fiction documents produced in the formal and informal registers of Spanish. This practice is guided by careful observation of phonetic-phonological, morphosyntactic, lexical-semantic and pragmatic features. This course is available in classroom, hybrid, distance and online format.

**LING6370 - Phonological Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

An introduction to the theory and practice of generative phonology, including its *raison d'etre*, origins, methodology, and place in linguistics theory. 10-10-94

**LING6400 – Meta theory.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT OF LINGUISTICS.*

Examination and analysis of the various forms by which linguistics has been conceptualized in regard to the position it has among the other sciences. This course will be offered face-to-face, hybrid and online modalities. Effective August 2023. 10-10-94

**LING6500 - Spanish Phonetics and Phonology.**

*3 credits. Three hours of lecture per week.*

Origin and development of phonetics as a language science discipline. Phonetics and phonology in the Spanish-speaking world.

**LING6520 - Oral Language in The Folkloric Tradition Of Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT OF LINGUISTICS.*

The study of the process of the transmission of language and its manifestation in folklore through the ages. Literary expressions in oral tradition. Techniques for the investigation and compilation of linguistic literary forms transmitted orally. 10-10-94

**LING6525 - History of The Spanish Language in Puerto Rico.**

*Three credits. Three hours of seminar per week.*

Study of the history of Spanish in Puerto Rico. Analysis of the linguistic and cultural roots of Puerto Rican Spanish from the Arahuaac Taino substratum to the cultured and semi-cultured usages of the twentieth century. 10-10-94

**LING6530 - African Linguistic Influences in The Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS.*

A study of African linguistic influences present in the phonology, morphology, syntax and lexicon of the various languages of the Caribbean. 10-10-94

**LING6541 - Spanish Morphosyntax.**

*Three credits. Three hours of seminar per week.*

Presentation and study of the morphosyntax level of the language, applied to Spanish, and its relationships with the phonologic, semantic and pragmatic levels, according to newest models.

**LING6550 - Seminar: Current Issues in Linguistics.**

*Three credits. Three hours of lecture per week*

Seminar on a current topic in linguistics to be decided on by the instructor. Topic to be announced the semester before the class is offered. No topic will be treated more than once. Topics: language and ideology. P h online. Effective January 2021. 19-08-96

**LING6551 - Directed Linguistic Research.**

*One credits. One hour of seminar per week Prerequisites: LING 6010, LING 6020, LING 6040, LING 6050, LING 6060 AND THE ELECTIVE COURSE RELATED TO THE THEME OF EACH SEMINAR.*

Research on a specific topic or problem to which a certain model, previously studied in a course which was taken and passed by the student, can be applied. 12-08-97

**LING6590 - Seminar in Historical Linguistic.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

Neogrammarian, structuralist, and structuralist and transformational generative analysis of language change. Diachronic morphology, phonology, and syntax. Lexical change and social motivation of language change. 10-10-94

**LING6595 - Brain and Language: Critical Analysis of Current Literature.**

*Three credits. Three hours of seminar per week.*

Study of the neural basis of natural human language through current literature. Critical evaluation of the relevance of published neuroscience research to the understanding of language in general, linguistic structure, language development, the learning and processing of language, and to language impacts of disease states.

**LING6600 - Introduction to The Cognitive Neuroscience of Language.**

*3 credits. Three hours of conference per week Prerequisites: LING 6010 OR EQUIVALENT.*

Cognitive basis of normal and abnormal language development, acquisition, and adult processing and use; relationship between intellectual capacity, environment, and neurological state. The course includes, as practical, experience in data collection and analysis.

**LING6737 - Philosophy and Linguistic.**

*Three credits. Two hours of lecture and one of discussion per week.*

In this course we will examine the philosophical foundations of the principal contemporary linguistic theories, as well as some of the most important contributions of philosophy to linguistics. Topics to be covered include: the innateness of language, language and human evolution, language and cognition, the truth-conditional view of meaning, the reference, quantification in natural languages, the pragmatic theories of Grice, Sperber and Wilson and metaphor.

**LING6895 - Thesis Prerequisite: Total.**

*0 credits.*

Methodologically grounded research project presented in the form of a written dissertation. 10-10-94

**LING6896 - Thesis.**

*Continued credits.*

Methodologically grounded research project presented in the form of a written dissertation. 10-10-94

**LING6995 - Interdisciplinary Approaches to Linguistics.**

*One to Three credits. One to three hours of seminar per week.*

Theoretical and practical seminar of variable subjects and credits on the convergencies among linguistics and other disciplines. The course will cover theoretical and practical aspects in order to explore the application of linguistics in different areas of knowledge. Themes historical sociolinguistics course offered face-to-face, hybrid and online. Effective August 2020.

**LITE6005 - Literature and Deconstruction.**

*Three credits.*

This course examines the concept of literature from a deconstructionist perspective, one of the most relevant theoretical schools of the xx century. It includes the study of texts by Jacques Derrida which present some of the most important notions of deconstruction in order to know and analyze which conventions make possible literary discourse.

**LITE6007 - Seminar on Theory and Research in Comparative Literature.**

*Three credits. One hour and half lecture and one hour and half discussion per week.*

Three credits. One hour and half lecture and one hour and half discussion per week.

**LITE6008 - Psychoanalysis and The Baroque.**

*Three credits. Three hours of lecture, discussion and seminar per week Prerequisites: FOR STUDENTS GRADUATED AS THE MASTERS IN COMPARED LITERATURE.*

A comparison of the modern elements shared by the baroque style and psychoanalysis, focusing on disillusionment, hermetism, and formalism. Texts from Lacan, Deleuze, Gongora, Sor Juana, Gracian, Lezama lima, Sarduy, arenas y Perlongher will be read.

**LITE6015 - History of Eroticism: East and West.**

*Three credits. Three hours of lecture per week.*

Theories of human love in western and eastern literatures. 10-10-94

**LITE6019 - The European Novella and Legal Discourse.**

*Three credits. Prerequisites: LITE 3011, LITE 3012, LITE 3101.*

The study of the relationships between legal discourse and the European novella, and the analysis of the relationships between the novella and the fictitious case, paying attention to the way in which individual authors appropriate themselves of this discourse from classical antiquity with the purpose of either validating or challenging legal systems and the hierarchies that they sustain.

**LITE6021 - (premodern) Myths and Monsters.**

*Three credits. Three hours of seminar per week.*

This course will study literary representations of myths and monsters, comparing texts from a variety of geographical and temporal contexts, including for example, medieval Anglo-Saxon, European, pre-Columbian, Caribbean and/or global contexts. Theoretical readings encourage reflection on concepts such as monster, hero, authority, ethics and war. Presential course.

**LITE6022 - Race, Music and Literature in The Caribbean.**

*Three credits. One hour of lecture,*

Three credits. One hour of lecture,

**LITE6025 - The Origins of Literary Theories.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011 AND LITE 3012.*

Study of literary theory from the Greek and roman ancient cultures to the European renaissance and the baroque. Study of literary theory from Aristotle and Horace to renaissance poetics (cinthio, castelvetro, Robortello, Tasso, etc.) and the baroque (Lope de Vega, Gracian). Analysis of how these theoretical traditions have defined the constant of their object of study (literature in general) and its specific manifestations by constructing the concept of "literary genres". Focus on the tension caused by the existence of theoretical models that do not necessarily coincide with the actual literary practice that, nevertheless, attempts to legitimize itself by means of this predominant literary theory. 12-01-2000

**LITE6396 - The Aljamiado Literature of The Spanish Moriscos.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The clandestine literature of the 16th century Spanish Moriscos (moors) written in Spanish and Arabic characters. This surprisingly hybrid literature \_both Catalan and Arabic in the midst of the Spanish golden century-includes poems, religious treatises, legens, and fascinating historical testimonies of the morisco's tragic extinction as a people.

**LITE6401 - Goethe's Faust.**

*Three credits. Prerequisites: BACHELOR.*

Investigations into the Faust legend and its various manifestations in world literature from the sixteen century to the present. 10-10-94

**LITE6402 - Goethe's Faust.**

*LITE6402 - Goethe's Faust.*

Investigations into the Faust legend and its various manifestations in world literature from the sixteen century to the present.

**LITE6407 - The Myth of Italy in Modern Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A textual analysis of the fascination exercised by Italy from the time of Goethe and Winkelmann to the 20th century, including the English and French romantics. 10-10-94

**LITE6409 - Thomas Mann.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3011-3012 OR THE EQUIVALENT.*

The work of Thomas Mann seen in the truly perspective of his time. 10-10-94

**LITE6411 - Dante: The Divine Comedy and The Tradition of The Voyages Beyond The Grave.**

*Three credits.*

An analysis of the divine comedy canto by canto, within the tradition that inspired it. 10-10-94

**LITE6412 - Dante: The Divine Comedy and The Tradition of The Voyages Beyond the Grave.**

*Three credits.*

An analysis of the divine comedy canto by canto, within the tradition that inspired it. 10-10-94

**LITE6415 - Man and Nature in Modern Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR ITS EQUIVALENT.*

Changing attitudes toward nature as reflected in the literature from the middle age to the present, with an emphasis on the last two centuries. 10-10-94

**LITE6417 - Modern Drama: Structures.**

*Three credits. Three hours of lectures per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

An investigation will be made of the roots and causes of the radical innovation that has taken place in dramatic production in recent decades. The class will analyze the intimate causes of this change, observable since the beginning of the century in the works of Ibsen, Maeterlinck and Strindberg, for example, which will lead to a breaking away from traditional form, and will bring about the new esthetic of the varied forms used by authors like Beckett, Ionesco, Genet, Pinter, Weiss, Wesker, etc. 10-10-94

**LITE6418 - Modern Drama: Structures.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

An investigation will be made of the roots and causes of the radical innovation that has taken place in dramatic production in recent decades. The class will analyze the intimate causes of this change, observable since the beginning of the century in the works of Ibsen, Maeterlinck and Strindberg, for example, which will lead to a breaking away from traditional form, and will bring about the new esthetic of the varied forms used by authors like Beckett, Ionesco, Genet, Pinter, Weiss, Wesker, etc. 10-10-94

**LITE6419 - Don Juan: Dramatic Myth.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR AUTHORIZATION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

Investigation of the origins and multiple complex variations of the theme throughout Europe from the sources of Tirso de Molina up to our time. 10-10-94

**LITE6420 - Don Juan: Dramatic Myth.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR AUTHORIZATION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

Investigation of the origins and multiple complex variations of the theme throughout Europe from the sources of Tirso de Molina up to our time. 10-10-94

**LITE6421 - Theory of The Novel.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR AUTHORIZATION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The novel and novelists; theories and theoreticians of the novel. 10-10-94

**LITE6422 - Theory of The Novel.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR AUTHORIZATION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The novel and novelists; theories and theoreticians of the novel. 10-10-94

**LITE6425 - Woman: Myth and Reality.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

A study of woman as theme and woman as author in world literature in different epochs and cultures. 10-10-94

**LITE6426 - Woman: Myth and Reality.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

A study of woman as theme and woman as author in world literature in different epochs and cultures. 10-10-94

**LITE6427 - The Twentieth-century Novel.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

Investigation into the various dimensions of the twentieth-century novel, as reflected in the works of joyce, kafka, faulkner, hasek, huxley, sartre, moravia, robbe-grillet, bellow, solzhenitzyn, and garcia marquez. Face-to-face, hybrid and online course. Effective January 2021. 10-10-94

**LITE6428 - The Twentieth-century Novel.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

Investigation into the various dimensions of the twentieth-century novel, as reflected in the works of joyce, kafka, faulkner, hasek, huxley, sartre, moravia, robbe-grillet, bellow, solzhenitzyn, and garcia marquez. 10-10-94

**LITE6430 - Literature In The Renaissance.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

An advanced course of research in certain literary genres, varying from year to year. 10-10-94

**LITE6431 - Marcel Proust.**

*Three credits. Three hours of lecture per week.*

An analytic and thematic study of remembrance of things past in its dimension as a poetic of memory and sensation. 10-10-94

**LITE6432 - Marcel Proust.**

*Three credits. Three hours of lecture per week.*

An analytic and thematic study of remembrance of things past in its dimension as a poetic of memory and sensation. 10-10-94

**LITE6435 - Fundamentals Of Romanticism.**

*Three credits. Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

An investigation into the esthetic, historical, political, social, and philosophical foundations of romantic literature. 10-10-94

**LITE6436 - Fundamentals Of Romanticism.**

*Three credits. Could be repeat, maximum of six*

An investigation into the esthetic, historical, political, social, and philosophical foundations of romantic literature. 19-08-96

**LITE6437 - Classical Myths In Modern Drama..**

*Three credits. Three hours of lecture per week.*

The tragic destinies of classical antiquity, made objective in attic tragedy will gain a new perspective by the method of comparative analysis. Through the variants offered by the multiple dramatic adaptations from the renaissance to the present, the constant character of these tragic destinies will be examined. Works in which couples such as orpheus-euridice, amphytrion-alcmena, heroines such as antigone and iphigenia and

brothers such as orestes and electra, will be studied. 10-10-94

**LITE6438 - Classical Myths in Modern Drama.**

*Three credits. Three hours of lecture per week.*

The tragic destinies of classical antiquity made objective in attic tragedy will gain a new perspective by the method of comparative analysis. Through the variants offered by the multiple dramatic adaptations from the renaissance to the present, the constant character of these tragic destinies will be examined. Works in which couples such as Orpheus-Euridice, Amphytrion-Alcmene, heroines such as Antigone and Iphigenia, and brothers such as Orestes and Electra, will be studied. 10-10-94

**LITE6439 - Homer and Virgil.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

Inquiry of the esthetic historic, cultural and mythological content of the three epic poems. 10-10-94

**LITE6441 - Homer, Dante, Joyce.**

*Three credits. Three hours of lecture per week.*

A group investigation into the structural, thematic, and stylistic relationships of the odyssey, the divine comedy, and Ulysses, with some consideration of Virgil, Shakespeare, Ibsen and others. 10-10-94

**LITE6442 - Homer, Dante, Joyce.**

*Three credits. Three hours of the instructor Prerequisites: B.A. OR PERMISSION OF THE INSTRUCTOR.*

A group investigation into the structural, thematic, and stylistic relationships of the odyssey, the divine comedy, and Ulysses, with some consideration of virgins, Shakespeare, Ibsen and others. 10-10-94

**LITE6445 - James, Woolf, Proust.**

*Three credits. Three hours of lecture per week.*

A comparative study of the techniques of James, Woolf and Proust, and how they influenced the development of the novel. Investigation and critical judgments of certain aspects of their works. 10-10-94

**LITE6446 - James, Woolf, Proust.**

*Three credits. Three hours of lecture per week.*

A comparative study of the techniques of James, Woolf and Proust, and how they influenced the development of the novel. Investigation and critical judgments of certain aspects of their works. 10-10-94

**LITE6447 - The Essay as A Literary Form.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

Analysis of the essay as a particular type of literary composition. Consideration of some its chief historical variants, beginning with its modern origins with Montaigne and bacon; several of its thematic and stylistic characteristics will be examined. Face to face, hybrid and online course. Effective August 2020. 10-10-94

**LITE6448 - The Epic Poem and The Novel in The Renaissance.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE INSTRUCTOR.*

A study of the development of the novel and the epic poem in the renaissance, through the works of Boccaccio, franco Scaccetti, Pulci, Boiardo, Ariosto, Sannazzaro, Bandello, Tasso and others, and their influence in other countries. A study will be made of the epic poem and procedure in the narrative. 10-10-94

**LITE6449 - The Epic Poem and The Novel in The Renaissance.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE INSTRUCTOR.*  
A study of the development of the novel and the epic poem in the renaissance through the works of Boccaccio, Franco Sacchetti, Pulci, Boiardo, Ariosto, Sannazzaro, Bandello, Tasso and other, and their influence in other countries. A study will be made of the epic poem and procedures in the narrative. 10-10-94

**LITE6450 - Medieval Hebrew-Spanish Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The course deals with medieval Spanish Jewish poetry written in Hebrew, including key figures such as ibn nagrella, ibn gabirol, mose ibn ezra during a period of such literary excellence that it is considered by some a true "renaissance". This poetic production will be studied in comparison with that of contemporary and later Spanish poets. 10-10-94

**LITE6455 - Medieval Arabic-Spanish Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The course deals with medieval Spanish Muslim poetry in classical Arabic, written by key figures like ibn al'arabi, avempace, a'Imu'utamid of Seville. Their poetic production will be compared to that of medieval and renaissance Spanish poets. 10-10-94

**LITE6456 - Theme of The Negro In Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A critical investigation into the theme of the negro from its origins in Africa through contemporary poetry. 10-10-94

**LITE6457 - Theme of The Negro In Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A critical investigation into the theme of the negro from its origins in Africa through contemporary poetry. 10-10-94

**LITE6458 - The Literature of Existentialism.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A study of existentialism, considering the ideas of Kierkegaard and his influence on the literary works of Unamuno, Camus, Sartre and others. 10-10-94

**LITE6459 - African Studies: Drama.**

*Three credits. Three hours of lecture per week.*

A critical investigation of African drama and its relationship with other literature. 10-10-94

**LITE6460 - African Studies: Drama.**

*Three credits. Three hours of lecture per week.*

A critical investigation of African drama and its relationship with other literature. 10-10-94

**LITE6465 - Studies in The Narrative: Nineteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE*



*LITERATURE DEPARTMENT.*

An in-depth study of the most outstanding writers of fiction of the 19th century; their immediate circles, and the various literary and sociopolitical movements relevant to their work. Face to face, hybrid and online course. Effective August 2020. 10-10-94

**LITE6466 - Studies in The Narrative: Nineteenth Century.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

An in-depth study of the most outstanding writers of fiction of the 19th century, their immediate circles, and the various literary and sociopolitical movements relevant to their work. 10-10-94

**LITE6467 - Kafka and Borges.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A study of Kafka's *The Castle* and of some of Borges' short stories. Examination of the formal relations between these two authors. 10-10-94

**LITE6468 - The Epic.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR AUTHORIZATION.*

A study of the epic from *Gilgamesh* to the *Iliad*. 10-10-94

**LITE6469 - The Epic.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR AUTHORIZATION.*

A study of the epic from *Gilgamesh* to the *Iliad*. 10-10-94

**LITE6470 - Contemporary Literary Criticism.**

*3 credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

An examination of the basic assumptions of critical theory on which contemporary literary studies are based. Course of a variable nature that can be taken up to three times as long as the topics are different, with the academic advisor's approval.

**LITE6475 - Contemporary Literary Criticism.**

*3 credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

An examination of the basic assumptions of critical theory on which contemporary literary studies are based. Course of a variable nature that can be taken up to three times as long as the topics are different, with the academic advisor's approval.

**LITE6476 - Structuralism and Sociology in Modern Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The application of present sociological and structuralist methods to the analysis of texts of chivalry, the picaresque novel, realism, and the twentieth century. 10-10-94

**LITE6477 - Structuralism and Sociology in Modern Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The application of present sociological and structuralist methods to the analysis of texts of chivalry, the

picaresque novel, realism, and the twentieth century. 10-10-94

**LITE6478 - Contemporary Occidental Poetry.**

*Three credits. Three hours of lecture per week*

Paths and development of contemporary occidental poetry through the study of its chief creators after Baudelaire. 19-08-96

**LITE6479 - Contemporary Occidental Poetry.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

Paths and development of contemporary occidental poetry through the study of its chief creators after Baudelaire. 10-10-94

**LITE6480 - Theory of Drama.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A penetrating study of the characteristics of the "tragic vision" and the "comic vision" in western dramatic literature. 10-10-94

**LITE6485 - Theory of Drama.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A penetrating study of the characteristics of the "tragic vision" and the "comic vision" in western dramatic literature. 10-10-94

**LITE6486 - Caribbean Theory and Literature.**

*3 credits. Three hours of seminar per week.*

This course will study literary and cultural theory from the Caribbean in relation to literary texts from the region. The interaction between Caribbean cultural theory (from a variety of materialist and psychosocial perspectives) and literary poetics will be rigorously explored. Attempts will be made to theorize both the specificity and the interrelatedness to global currents of the Caribbean as a cultural space.

**LITE6488 - Satan in Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A study of the character Satan in literature from ancient times to the until twentieth century. 10-10-94

**LITE6489 - Satan in Literature.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A study of the character Satan in literature from ancient times to the until twentieth century. 10-10-94

**LITE6490 - Africa in The Antilles.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A critical investigation into the influences and relations between African culture and the literature of the Antilles. 10-10-94

**LITE6495 - Africa in The Antilles.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

A critical investigation into the influences and relations between African culture and the literature of the Antilles. 10-10-94

**LITE6497 - Comparative Mythology.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The science of mythology presented within the frame of comparative literature. 10-10-94

**LITE6498 - Comparative Mythology.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. OR PERMISSION OF THE DIRECTOR OF THE LITERATURE DEPARTMENT.*

The science of mythology presented within the frame of comparative literature. 10-10-94

**LITE6499 - Caribbean Theater: Texts and Performance in The Greater and Lesser Antilles.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENT OR THIRD OR FOURTH YEAR.*

Comparative study of the contemporary theater in French, Spanish, English, and/or creole and nation languages of the Caribbean, with special emphasis on the critically Caribbean theater esthetics, that transcends linguistic, cultural, and political differences.

**LITE6505 - Oral Tradition, Visual Myth, and Native Literature in The Andean World.**

*Three credits. Three hours of lecture per week.*

The Andean cultural semiotics in its oral, visual, and written manifestations. 10-10-94

**LITE6506 - Thor and Other Head cleavers: Medieval Scandinavian Literature.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week Prerequisites: LITE 3011, LITE 3012, LITE 3101.*

This semester course will focus on medieval Scandinavian literature in its cultural, historical, philosophical and scientific contexts. We will analyze mythological texts, the sagas of the Icelanders, Scandic poetry, and literary theory from medieval Scandinavia. The course will explore the intersections among medieval Scandinavian literature, especially from Iceland, genealogies, and the construction of an Icelandic national identity. (c) face-to-face, hybrid and online course. Effective January 2021.

**LITE6515 - Literature, Science, And Culture in The Middle Ages.**

*Three credits. One hour half lecture and one hour half discussion per week Prerequisites: LITE 3011-MODERN LITERATURE, LITE 3012-CONTEMPORARY LITERATURE, LITE 3101-LITERARY THEORY.*

This seminar course will explore the intersections among fictional, scientific, and cultural discourses of the medieval period. The course will examine the ways in which scientific discourses were utilized and transformed, in order on the one hand, to analyze how medieval literature modifies, questions and/or transcends the structures of knowledge of its time, and on the other, to consider the cultural consequences of this process. Face to face, hybrid and online course. Effective August 2020.

**LITE6525 – Meta theater: Five Centuries of Self-conscious Theater.**

*Three credits. Three hours of seminar per week.*

Seminar course in which the theoretical and paradigmatic texts that define meta-theater (abel/richenberger) and its techniques (herby) will be studied. Once the theoretical framework is established and some literary models are analyzed, the student will choose at least two texts in order to develop his or her research

comparing authors, dramatic genres and historical periods, or tracing another literary or historical allusions, self-referentiality) in a set of texts from different periods, styles, nationalities or theatrical genres. August 14, 2001.

**LITE6550 - Modernity, Literature and The City.**

*Three credits. One hour and half of lecture and one hour and half of discussion per week.*

This course explores the relationship between modernity, the city and its cultural representations, analyzing its literature from the sixteenth century to the present in Europe and America. The course has as its central topics the city as organizer of new practices and subjectivities, and its representations from the standpoint of the panopticon, the flaneur, and the nomad. (c) face-to-face, hybrid and online course. Effective January 2021.

**LITE6560 - The Elizabethan Theater and The Spanish Theater of The Golden Age.**

*Three credits. One hour and half lecture and one hour and half discussion per week Prerequisites: LITE 3011, LITE 3012, LITE 3101.*

The study of the discursive practices of the English Elizabethan theater and the Spanish theater of the golden age to establish the common grounds and particularities of both traditions.

**LITE6586 - San Juan De La Cruz: western and Semitic Tradition.**

*Three credits. One hour lecture and two hours of discussion per week.*

A study of St. John of the cross mystical poetry and prose, taking into account his literary dialogue with both Christian and oriental mystical traditions.

**LITE6665 - Jorge Luis Borges and His Theory of Literature.**

*Three credits. Three hours of lecture per week Prerequisites: FOR MASTER OR DOCTORATE STUDENTS.*

An analysis of Borges' theory of language and the literature phenomenon. 10-10-94

**LITE6666 - Modernismo and Modernity.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The presence of urban sensibility in the poetics of three representatives of "modernismo": Martí, Darío, Lugones. 10-10-94

**LITE6667 - Modernity and Avant-garde.**

*Three credits. Three hours of lecture per week Prerequisites: LITE 3101.*

An exploration of the relationship between the social and aesthetic modernization at the turn of the century and the first decades of the twentieth century. Course offered face-to-face, hybrid and online. Effective August 2022. 10-10-94

**LITE6668 - Literature and Animalness.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Analysis of the topic of animalness in contemporary literature. Through the works of Franz Kafka and Jacques Derrida, the history of the perception of animalness, in philosophic and literary terms, is traced. January 17, 2001

**LITE6675 - The Latin Love Elegy.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Seminar course that explores the Latin love elegy -as proposed by Propertius, Tibullus, and Ovid- as prototype of ancient lyric poetry, and its flowering during the time of Augustus, its roots in Greek lyric and early Latin poetry, its poetics, themes, resources, its invention of the lyric subject and mind, its treatment of the lyric body vis a vis the emblematic body of epic poetry and the sacrificial body of tragedy, development in later

poetic proposals, from the middle ages to the present. January 17, 2001.

**LITE6885 - Research or Creative Project In Comparative Literature I.**

*Three credits. 45 hours of conclusion project (capstone) Prerequisites: 24*

Preparation, elaboration, and approval of the proposal for the final ma project in comparative literature (research project, creative project, applied literary project, or other literary project to conclude the degree) under the mentorship of a project director. This course is offered in the following modalities: face-to-face, hybrid, distance and online.

**LITE6886 - Research or Creative Project in Comparative Literature II.**

*Three credits. 45 hours of conclusion project (capstone) Prerequisites: 24*

Preparation, elaboration and approval of the final ma project in comparative literature (research project, creative project, applied literary project, or other project to conclude the degree) under the mentorship of a project director. This course has a full-time academic load. This course is offered in the following modalities: face-to-face, hybrid, distance and online.

**LITE6895 – Masters’ Thesis or Other Capstone Research Project.**

*LITE6895 – Masters’ Thesis or Other Capstone Research Project. Prerequisites: 24*

Preparation, elaboration and approval of the master's thesis or other capstone research project, under the direction of a thesis or research project advisor.

**LITE6896 - Thesis or Other Capstone Research Project Continued.**

*LITE6896 - Thesis or Other Capstone Research Project Continued. Prerequisites: LITE6895*

Continuation of the preparation (research and writing) of the master's thesis or other capstone research project under the director's and/or committee's guidance.

**LITE6905 - Directed Research in Comparative Literature I.**

*Three credits. Three hours of independent study per week Prerequisites: 12 GRADUATE*

Directed research in comparative literature related to specific problems and topics of individual interest. The course can be taken twice. 10-10-94

**LITE6906 - Directed Research in Comparative Literature II.**

*Three credits. Three hours of independent study per week Prerequisites: 12 GRADUATE*

Directed research in comparative literature related to specific problems and topics of individual interest. The course can be taken twice. 10-10-94

**LITE6991 - Body, Memory and Writing.**

*One credit.*

The body has been an in scripted surface of memory and its process. Healthy bodies, bodies in ill health, sexed bodies, bodies signed by a traumatic experience such as war, exile, monstrosity or madness; human or inhuman bodies, show themselves as stories subjected to be textually analyzed and related to their cultural historical contexts.

**LITE6995 - Caribbean Poetics and Debates: Comparative Approaches.**

*One to Six credits. Two hours of conference and four hours of discussion.*

This course presents and analyses distinctive literary poetics in representative debates, texts and authors of the Caribbean, from a comparative and interdisciplinary perspective. Taking into account the region's necessary historical and cultural contextualization, it seeks to highlight the region's singularity, which can no longer be studied exclusively within the conventional paradigms of race, ethnicity, language and geography.

It will include the Hispanic, francophone, Anglophone, and creole, as well as the other Caribbean of its migration and diasporas.

### **LITE6996 - Comparative Medieval Literature.**

*One to Three credits. One to three hours of seminar per week.*

This course will study medieval literature in a comparative fashion, analyzing texts written originally in different languages, from various geographical contexts and/or of different discourses; or analyzing the literature from a theoretical perspective.

### **TRAD6001 - Localization.**

*Three credits. Three hours of lecture per week.*

Localization includes the translation of electronic media such as websites computer programs and video games to other linguistic and cultural markets. This advance course explores technical aspects in the field of localization and accessibility.

### **TRAD6006 - Computer Tools for The Translator.**

*Three credits. One and a half hour lecture and one and a half hour laboratory per week.*

This course will provide students with an overview of the computer technologies currently being used and/or developed in the field of translation. Areas of study will include the range of computer-based applications and tools, translator workstations, online research tools, glossary programs, voice recognition systems and translation-related research on the internet currently available or to be developed in the future. Students will be encouraged to use online glossaries and be trained in the compilation of their own glossaries. Use of various professional applications in ms word will be fostered, so as to assist students in the professional presentation of translation work, as well as in the translation or editing process. Students will be given a practical introduction to famt (fully automated machine translation), as well as cat or computer-assisted translation programs. The course is intended to give students the basic tools needed for translators to succeed in a rapidly changing technological environment. Face-to-face, hybrid and online. Effective August 2020.

### **TRAD6007 - Translation of Informative Journalistic Texts.**

*Three credits. Three hours seminar per week.*

Seminar on translation of informative journalistic texts from English to Spanish. Includes discussion of the functions of newspaper journalism, journalistic style, and types of journalistic texts. Practice will be given in the translation of news articles, in-depth reports and interviews on a variety of topics and of different journalistic styles.

### **TRAD6008 - Translation of Journalistic Texts.**

*3 credits. Three hours of seminar per week.*

Practice seminar of translation of informative and interpretive journalistic texts. Discussion and application of basic concepts including the functions of written journalism (both printed and digital), journalistic style and the different types of journalistic texts. Students will translate news, briefings, headlines, interviews, editorials, reviews, and op-eds on a variety of topics and different journalist styles. This course will be offered presential, hybrid and online. Effective August 2020.

### **TRAD6010 - Introduction to Community Interpreting.**

*Three credits. Three hours of lecture per week.*

This course introduces students of the profession and contexts of the community interpreter. It offers students a general exposure to the professional requirements, students, standards, practices and ethical dilemmas of the community interpreter. Community interpreting encompasses wide variety of interpreting

that facilitates community services in educational, social, medical, and in some countries. The course focuses on the professional aspects, standards and ethics, and preparation of the community interpreter. The course also affords students an opportunity to understand and practice some of the most common interpreting modalities utilized in this profession: sight translation and consecutive. This course will be taught on-site, online or in combination of face to face, hybrid distance and online course.

### **TRAD6011 - Translation and Media.**

*Three credits. Three hours of lecture per week.*

Practice seminar of translation of various texts relating to the rapidly changing world of the media. The texts focus of journalism (news and opinion articles and essays), online media (from scholarly sites to blogs), advertising, and television and film (dubbing and subediting). Discussions also focus on the role of the translator/translation in the media from both a theoretical and practical standpoint, as well as how the media tend to view and utilize translation. Specific, issues pertaining to localization/transcreation, and the related emerging industry (particularly regarding language services providers). Will also be discussed. Students learn to make professional presentation of translations, with relevant translation technology tools, especially regarding appropriate style and formatting. This course will be taught on-site, online or in a combination of both modalities face to face hybrid distance and online course.

### **TRAD6012 - Intermediate Practice Seminar on Translation.**

*Three credits. Three hours of lecture per week.*

Intermediate practice seminar on translation where students will translate diverse types of texts of moderate difficulty. Students will learn to identify and solve the textual and extratextual difficulties posed by the various text types and will learn to perform the proper research according to the text type. This course will be taught on-site, online or in a combination of face-to-face hybrid distance and online course.

### **TRAD6013 - Audiovisual Translation.**

*Three credits. Three hours of lecture per week.*

This practical course on audiovisual translation focuses on accessibility of audiovisual products. Student will use subtitling tools while developing key skills for translating and subtitling movies for typical audiences as well as for audiences with special needs, such as deaf and hard-of-hearing. This course also includes a practical audio

### **TRAD6014 - Translation of Gastronomic Texts.**

*Three credits. Three hours of lecture per week.*

Translation of text related to cooking and gastronomy, recipes, menus, gastronomic reviews, utensils, techniques ingredients, gastronomy and cooking websites and blogs. This course will be taught on-site, online or in a combination of face-to-face hybrid distance and online course.

### **TRAD6015 - Translation of Literary Texts.**

*Three credits. Three hours of lecture per week.*

Practice seminar of literary translation. Students will provide translations in a range of literary texts, readings in literary and critical theory will be provided. Students will learn to assess potential source-text difficulties and will have the opportunity to work individually and in teams to solve them. The course will deal with the following core issues; theoretical issues relating to the notions of translatability, domestication and foreignization, and the translator's imprint/remainder. Genre-related issues (poetry, narrative prose, essay, drama, etc.); literary, biographical and historical context of the source text, stylistic and grammatical analysis of texts; translation of figurative language; aesthetic considerations. This course will be taught on-site, online or in a combination of both modalities face to face hybrid distance and online course.

**TRAD6021 - Translation for Museums.**

*Three credits. Three hours of lecture per week.*

Practical seminar organized to provide students with practice in translating texts within a specific translation industry niche: translation for museums and cultural institutions (with a focus on translation of historical and visually oriented texts). Students will be presented with the real challenges of working within this field and will deal with specific industry demands in terms of style, register, terminology, as well as related issues such as intertextuality and transcreation. Specific problems, such as rendering of images\concepts or objects as text, visualization and visual literacy, intercultural translation, translation and identity, and translating museum materials without corresponding images, will be discussed. Face-to-face, online and hybrid course.

**TRAD6100 - Seminar in Translation into English.**

*Three credits. Three hours of lecture per week*

Translation of journalistic and literary texts from Spanish into English. This course may be taken up to a maximum of six credits, with different topics. 10-10-94

**TRAD6102 - Introduction to Liaison and Consecutive Interpreting for B Language.**

*Three credits. Three hours of lecture per week.*

Practical introductory course on liaison and consecutive interpreting techniques in b language using intermediate level speeches. Using interpreting exercises, students will practice and learn to resolve common problems regarding this interpreting mode. This course will be offered face-to-face, hybrid and online. Effective January 2021.

**TRAD6105 - Translation: Theory and Practice.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

A study of basic translation theory as well as different translation techniques. 10-10-94

**TRAD6108 - Seminar on Commercial Translation Spanish to English.**

*Three credits. Three hours of seminar per week Prerequisites: AUTHORIZATION OF THE COUNSELOR OR THE DIRECTOR.*

Translation from Spanish to English of commercial documents such letters, memos, notices, announcements, calls for bids and contracts. 16-08-99

**TRAD6185 - Translation of French Newspapers and Magazines.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE GRADUATE PROGRAM*

Texts of increasing difficulty as exercises, from le monde, le figaro, etc. Sections such as editorials, reportage, business and financial, women's and home sections, sports, theater and film criticism, and advertising. 10-10-94

**TRAD6200 - Criticism of Translation.**

*Three credits. Three hours of lecture per week Prerequisites: PRACTICE IN TRANSLATION.*

Analysis of published translations (both to English or Spanish) emphasizing the semantic and pragmatic levels of language. 10-10-94

**TRAD6215 - Scientific and Technical Translation.**

*Three credits. Three hours of lecture per week.*

Scientific and technical translation encompasses a variety of subjects and disciplines, including medicine, industrial machinery, the automotive industry, computers, telecommunications, engineering, and science. In this practical intermediate advanced course students will tackle instruction manuals, technical reports,



equipment specifications, systems descriptions, journal articles and specialized papers on a range of scientific and technical subjects various text types will be studied, including informative texts, conferences, abstracts, patents, regulations, textbooks, as well as other specialized texts pertaining to science and technology. Face-to-face, hybrid and online course. Effective 01-2021.

**TRAD6300 - Literary Translation.**

*Three credits. Three hours of lecture per week*

A seminar and workshop course in which the various techniques of literary translation are taught using representative authors of the several genres and literary epochs of English and American literature. Will deal with the theater and the essay. 10-10-94

**TRAD6305 - Great Authors and Translation.**

*Three credits. Three hours of lectures per week*

Analysis of essays on translation written by prominent authors translators. Translations by great authors will be examined. 10-10-94

**TRAD6400 - Seminar in Translation into Spanish.**

*Three credits. Three hours of lecture per week*

Careful consideration of alternative translations and possibilities of composite translation. 10-10-94

**TRAD6401 - Comparative Morphosyntax of Classical Greek And Spanish.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR*

Spanish morphology in the light of the morphosyntax of classical Greek. Derivation and formation of words in the two languages. Brief exercises in translation. 10-10-94

**TRAD6402 - Comparative Morphosyntax Of Classical Greek And Spanish.**

*Three credits. Three hours of lectures per week Prerequisites: PERMISSION OF THE PROFESSOR*

Spanish morphology in the light of the morphosyntax of classical Greek. Derivation and formation of words in the two languages. Brief exercises in translation. 10-10-94

**TRAD6407 - Seminar Of French-Spanish Translation.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. IN FRENCH OR EQUIVALENT KNOWLEDGE*

Exercises of increasing difficulty, using journalistic texts and fragments from good contemporary writers. Simultaneously, a brief comparative study of morphological, grammatical, and syntactical relevant aspects. 10-10-94

**TRAD6408 - Seminar Of French-Spanish Translation.**

*Three credits. Three hours of lecture per week Prerequisites: TRAN 6407 OR CONSENT OF THE PROFESSOR*

Translation of texts of French literature since the seventeenth-century. 10-10-94

**TRAD6409 - Seminar: Practice in Translation.**

*Three credits.*

Translation, criticism of translation, retranslation. Texts mainly related to philosophy of language. 10-10-94

**TRAD6410 - Seminar: Practice in Translation.**

*3 credits. Three hours of lecture per week.*

Translation of literary texts from English into Spanish. The course may focus on a specific topic or approach within the general subject of literary translation. The specific topic will be reflected in the subtitle. Students may take the course twice if offered with different subtitles.

**TRAD6411 - Seminar: German-Spanish Translation I.**

*Three credits. One hour of lecture and two hours of practice per week Prerequisites: GERMAN 3001, 3002, 3013, OR GERMAN 3801, 3802, OR EQUIVALENT*

Translation from German into Spanish will be practiced by home assignments and discussion in class.  
Inactivated a32 10-10-94

**TRAD6412 - Seminar: German-Spanish Translation II.**

*Three credits. One hour of lecture and two hours of practice per week Prerequisites: TRAN 6411 OR PERMISSION OF THE DIRECTOR.*

Translation from German into Spanish of texts of a certain degree of difficulty will be practiced by home assignment and discussion in class. Inactivated a32 10-10-94

**TRAD6413 - Seminar in Translation From French Into English.**

*Three credits. Three hours of seminar per week Prerequisites: ADVANZED COURSE IN FRENCH OR PERMISSION OF THE PROFESSOR; COMMAND OF FRENCH AND ENGLISH.*

Study of translation techniques and theories from French into English, using passages representative of different genres, including orientation in reference works and criticism of existing translations. 16-08-99

**TRAD6430 - Seminar: Independent Studies.**

*Three credits. Three hours of lecture per week*

The main objective is the practice of literary composition in English, but the student may request an area of individual interest, under the guidance of the instructor. 10-10-94

**TRAD6435 - Seminar: Independent Studies.**

*Three credits.*

Translation of general-audience essays and reports using the computer; emphasis on the pragmatic aspect of language. 10-10-94

**TRAD6436 - Seminar: Independent Studies.**

*Three credits. Three hours of lecture per week*

Translation of essays and literary criticism, emphasizing the semantic level of language. 10-10-94

**TRAD6437 - Seminar: Independent Studies.**

*Three credits. Three hours of lecture per week*

Translation of texts of logic and philosophy concerning linguistic problems. 10-10-94

**TRAD6438 - Comparative Analysis of The Morphology and Syntax of Spanish and English.**

*Three credits. Meetings by agreement with the professor*

The structure of words and sentences. Morphological and syntactic functional units. Descriptive theory and practical application in Spanish and English exercises. Both languages will be used in the course. 10-10-94

**TRAD6445 - Introduction to Interpretation.**

*Three credits. Prerequisites: SIX*

This course will introduce students to the basic skills involved in each of the modalities of interpretation, sight translation, consecutive interpretation. It will present techniques for the preparation of glossaries as an exercise prior to a session of technical interpretation; skills for increasing concentration and memorization; the art of communication with an audience and note-taking skills. Exercises such as "shadowing", "double tasking and paraphrase, plus laboratory exercises using headphones, will gradually increase students' ability

to interpret. The strengthening and consolidating the skills and techniques learned in class. Working in teams will be practiced and students will visit a courtroom or other real-life interpreting scenario. The ethics of interpreting will be discussed, as well as sensibility to the needs of diverse population.

#### **TRAD6451 - Advanced Course of Spanish Syntax I.**

*Three credits. Three hours of lecture per week.*

Advanced course in Spanish syntax from a descriptive, historical, and stylistic point of view. It will consist of lectures and practical lessons. Face-to-face, hybrid and online. Effective August 2020. 10-10-94

#### **TRAD6452 - Advanced Course of Spanish Syntax II.**

*Three credits. Three hours of lecture per week.*

Second part of the advanced course in Spanish syntax from a descriptive, historical, and stylistic point of view. It will consist of lectures and practical lessons. This course will be offered presential, hybrid and online. Effective 01-2021. 10-10-94

#### **TRAD6453 - Writing and Style.**

*Three credits. Three hours of lecture per week.*

Theory and practice of writing. Study of the techniques and main problems brought about by writing. Clearness and order in the construction of phrases and clauses. Accuracy in language. Use of the ideo-constructive method. Face-to-face, hybrid and online. Effective August 2020. 10-10-94

#### **TRAD6454 - Writing and Style.**

*Three credits. Three hours of lecture per week.*

Second part of the theory and practice of writing. Study of the techniques and main problems brought about by writing. Clearness and order in the construction of phrases and clauses. Accuracy in language. Use of the ideo-constructive method. This course will be offered presential, hybrid and online. Effective January 2021. 10-10-94

#### **TRAD6455 - Semiotics.**

*3 credits. Three hours of lecture per week.*

This course introduces students to the concept of intersemiotic translation proposed by Roman Jakobson, which encourages freedom beyond paraphrase, reconceptualizing to different media, educational level, time period, genre, culture. After reading, discussion, and testing of major semiotic theories Ferdinand de Saussure summarized by Roland Barthes, Charles pierce interpreted by Thomas Sebeok, the synthesis of European semiology and American semiotics by Umberto Eco, feminist psychoanalytic perspectives of Julia Kristeva- students will report on specific applications of semiotics to translation and finally write individual term papers consisting of their own intersemiotic translation or evaluation of an intersemiotic translation already extant.

#### **TRAD6457 - English Syntax.**

*3 credits. Three hours of lecture per week Prerequisites: B.A. PREFERABLE IN ENGLISH.*

This course is designed for student who are interested in understanding the syntactic structure of modern English. While the material presented is not tied to any particular grammatical model, it provides an understanding of constituent structure. During this course the student will become familiar with the key concepts and tools of syntactic analysis, such as the features of word class categories and the use of tree diagrams. Face-to-face, hybrid and online. Effective August 2020.

#### **TRAD6459 - Principles of Semantics and Translation.**

*Three credits. Three hours of lecture per week Prerequisites: A COURSE OF GRAMMAR OR ITS EQUIVALENT*

Study of the nature and meaning of the words concerning translation. 10-10-94

**TRAD6460 - Intercultural Communication: Problems in Translation.**

*Three credits. Three hours of lecture per week Prerequisites: A COURSE IN GRAMMAR OR ITS EQUIVALENT.*

Inquiry and analysis of problems emerging from diversity of insights, inferences and values between cultures and subcultures at both national and international levels. 10-10-94

**TRAD6465 - Translation Internship.**

*Three credits. One hundred and twenty hours per semester of internship Prerequisites: TRAD 6451-6452 OR 6453-6454, AND TWELVE*

Supervised practice of translation in the workplace; the student will also perform other translation-related tasks, such as writing, editing or translation project management. 16-01-2002

**TRAD6467 - Introduction to Terminology.**

*Three credits.*

Introduction to the basic aspects of research in the field of terminology and its relation to translation, through the analysis of various texts concerning diverse technical fields (such as environment, economy, information technology, law art etc.) 21/01/2003

**TRAD6499 - Thesis for the Masters' Degree.**

*Three credits. Three hours of lecture per week Prerequisites: TO HAVE MET ALL THE COURSE AND EXAM REQUISITES FOR THE DEGREE*

Submittal of translation work done with the supervision of a faculty counselor. It is the final requirement for the degree. 10-10-94

**TRAD6500 - English to Spanish Translation Seminar.**

*3 credits. Three hours of lecture per week.*

Exercises in translating simple texts on the basis of which the theoretical principles of translation are pointed out.

**TRAD6501 - Medical Translation I.**

*Three credits. Prerequisites: PERMISSION OF THE DEPARTMENT'S DIRECTOR*

Translation of medical articles on anatomy, physiology, pathology, and surgical procedures. 10-10-94

**TRAD6502 - Medical Translation II.**

*Three credits. Three hours of lecture per week Prerequisites: TRAN 6501*

Translation of medical articles on diseases, syndromes, diagnostic tools and treatment. 10-10-94

**TRAD6505 - Sight Translation.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Translation of various texts on first reading. The student will translate texts directly, on sight. Face-to-face, hybrid and online. Effective August 2020. 10-10-94

**TRAD6511 - Seminar: Spanish-French Translation I.**

*Three credits. Three hours of practice per week Prerequisites: ADEQUATE KNOWLEDGE OF FRENCH (WRITTEN AND ORAL)*

Translation of journalistic and literary texts from Spanish into French. 10-10-94

**TRAD6512 - Seminar: Spanish-French Translation II.**

*Three credits. Three hours of practice per week Prerequisites: TRAN 6511 OR PERMISSION OF THE PROFESSOR*  
Translation of journalistic and literary texts from Spanish into French. 10-10-94

**TRAD6526 - Seminar on English Writing.**

*Three credits. Three hours of lecture and workshop per week Prerequisites: TRAN 6453-6454.*

The purpose of this course is to provide the student with the techniques and skills necessary for developing written materials. 10-10-94

**TRAD6535 - Research in Translation.**

*Three credits. Three hours of seminar per week*

Basic research methods for translation. The use and selection of both bibliographic and non-bibliographic sources. 10-10-94

**TRAD6576 - Seminar on Literary Translation into French.**

*Three credits. Three hours of seminar per week Prerequisites: PERMISSION OF THE DIRECTOR*

Study of literary translation techniques and theories using works of representative Latin American and Caribbean authors of the nineteenth and twentieth centuries. Translation of passages of different literary genres. 10-10-94

**TRAD6600 - Seminar In Translation.**

*Three credits. Three hours of lecture per week*

Translation of essays and similar texts into Spanish, under the supervision of the professor; discussion of various aspects and alternatives of the translation in question. Face-to-face, hybrid and online. Effective August 2020. 10-10-94

**TRAD6601 - English to Spanish Business Translation I.**

*3 credits. Three hours of practice seminar per week.*

Translation of documents commonly used in business transactions, such as letters, notice o meetings, corporate resolutions, bank resolutions, certificates of incorporation, stock certificates, regulations, financial statements, ongoing guarantees, incorporation papers, prospectus, lien agreements, using papers, as well as on-line business dictionaries and glossaries, and other reference works.

**TRAD6602 - Business Translation II.**

*Three credits. One hour of lecture and two hours of practice per week Prerequisites: TRAN 6601 OR PERMISSION OF THE DIRECTOR*

Translation of texts from the banking and industry areas. 10-10-94

**TRAD6610 - Literary Translation.**

*Three credits. Three hours of lecture per week*

A seminar and workshop course in which the various techniques of literary translation are taught using representative authors of the several genres and literary epochs of English and American literature. The course will deal with poetry and narrative fiction. 10-10-94

**TRAD6620 - Seminar: Practice in Translation.**

*Three credits. On hour of lecture and two hours of practice per week*

Translation of miscellaneous texts considering the accuracy of lexical equivalence. 10-10-94

**TRAD6630 - French Grammar and Spelling.**

*Three credits. Three hours of lecture per week Prerequisites: FREN 4008 OR ITS EQUIVALENT*

Grammatical rules of French: their origin and their validity in the contemporary language. Study of French spelling and etymology. The sentence and its parts. Signs, sounds, vocabulary. 10-10-94

**TRAD6635 - French Stylistics for Translation.**

*Three credits. Three hours of seminar per week Prerequisites: PERMISSION OF THE DIRECTOR*  
Organization and development of discourse. Study of the stylistic component of the message. Use of the stylist resources of the French language in translation. 10-10-94

**TRAD6636 - Translation of Business Texts Into French.**

*Three credits. Three hours of seminar per week Prerequisites: PERMISSION OF THE DIRECTOR*  
Translation of letters, official documents and advertising. Acquisition of the terminology and style related to this field. 10-10-94

**TRAD6640 - Seminar In Translation Into English.**

*Three credits. Three hours of seminar per week*  
Translation and revision of the stylist and pragmatic aspects of the language into which material is being translated (English). 10-10-94

**TRAD6650 - Seminar: Independent Studies.**

*Three credits. Three hours of lecture per week Prerequisites: SPAN 6600, 6700 OR 6800, 6900*  
Revision of the stylistic and pragmatic aspects of the language into which material is being translated (Spanish). 10-10-94

**TRAD6660 - Seminar in Translation into English.**

*Three credits. Three hours of seminar work per week Prerequisites: B.A. PREFERABLE IN ENGLISH*  
Translation: revision of linguistic and stylistic suitability (into English). (c) face-to-face, hybrid and online. Effective August 2020. 10-10-94

**TRAD6670 - Seminar: Independent Studies.**

*Three credits. Three hours of lecture per week*  
Translation: revision of linguistic and stylistic suitability (into Spanish). 10-10-94

**TRAD6680 - Seminar in Translation into English.**

*Three credits.*  
Translation from Spanish into English of essays and literary specialized studies. 10-10-94

**TRAD6690 - Problems of Legal Translation.**

*Three credits. Three hours of lecture per week*  
The specialized language of the different areas of law; English-Spanish terminological equivalences in legal procedures. 10-10-94

**TRAD6700 - Seminar in Translation.**

*Three credits. Three hours of lecture per week*  
Translation and criticism of translation of texts of normal complexity. 10-10-94

**TRAD6705 - Problems in Legal Translation.**

*Three credits. Three hours of lecture per week Prerequisites: TRAN 6690.*  
The student will increase his or her acquaintance with the specialized language of the different legal fields, and with the terminological equivalence between English and Spanish concerning legal translation. 10-10-94

**TRAD6800 - Seminar in Translation into English.**

*Three credits. Three hours of lecture per week*

Careful consideration of alternative translation and possibilities of composite translation. 10-10-94

**TRAD6895 - Thesis for Master Degree.**

*No credits.*

Preparation of a translation of medium length done under the supervision of a faculty member. The complete thesis once examined, is the final requirement for the degree. Face-to-face, hybrid and online. Effective August 2020. 10-10-94

**TRAD6896 - Thesis Continued.**

*No credits. Prerequisites: TOTAL OF*

No credits. Prerequisites: TOTAL OF

**TRAD6900 - Seminar of Translation into English.**

*Three credits. Three hours of lecture per week.*

Translation of relatively difficult essays and articles (from a linguistic point a view) from Spanish into English. 10-10-94

**TRAD6990 - New Tendencies and Practices In Translation.**

*One to Three credits. One to three hours of seminar per week.*

Theoretical and practical seminar of variable subject and credit on the most recent topics ant tendencies in the study and practice of translation. The course will cover outstanding theoretical aspects of the new tendencies in translation both as an academic discipline and a professional practice. It will include practical translation exercises the student will be able to repeat the course with different topics up to a maximum of 6 credits. Topic: edit and proof reading. P. H. Online.

**TRAD6995 - The Art of Translation: Its Fundamentals and Methods.**

*One to Three credits.*

This is the theoretical and practical seminar of variable subject and credit that explores how the field of translation and professional translators can best respond to opportunities and challenges in the contemporary field of translation. The course examines specific resources for approaching translation as an art and craft, identifying ways in which skills and knowledge that scholars recognize as useful for translators can be developed through innovation and variation in method. Examples of these resources include knowledge about trends in regional and international markets, strategies of business management and research in the areas of culture and society. Method will be con- textualized in terms of specific subfields of translation and/or practical exercises. The student can repeat the course with different topics up to a maximum of 6 credits. Theme: translation of academic texts. P. H. Online.

**COLLEGE OF BUSINESS ADMINISTRATION**

**ADEM6500 - Seminar on Business Administration.**

*Two credits. Prerequisites: FOR STUDENTS ADMITTED TO THE FIRST SEMESTER*

This seminar is designed to help the students admitted to the graduate program improve their individual deficiencies. It will stress such matters as: computer programming, elementary accounting, college mathematics, language improvement for visiting students and any other subject determined by the admissions committee of the graduate school. The committee requirements may be fulfilled by the students. 10-10-94

**ADEM6700 - Seminar on Research Project I.**

*Two credits. Prerequisites: CANDIDATE FOR GRADUATION.*

Every student is required a research project related to his major field of study. Students must have two semesters in the corresponding research proposal course. During the first semester in residence, the student will analyze research techniques, choose a theme for subject, state a proposal and prepare an outline and begin his research project. During the second semester, the student will work under the supervision of a professor specialized in the subject matter chosen by the student. 10-10-94

**ADEM6701 - Seminar On Research Project li.**

*Two credits. Prerequisites: TO BE A CANDIDATE FOR GRADUATION. BUAD 6700.*

Under the direction of his faculty advisor, the student designs and carries out a complete research project in his area of interest. This activity is limited to second year students attending the research proposal (buad 6700). 10-10-94

**ADEM6702 - Research Project (continuation).**

*No credits. Prerequisites: BUAD 6701.*

This course is the continuation of Buad 6701, research project, in which the student will continue working under the direction of his faculty advisor. The student designs and carries out a complete research project in his area of interest. 10-10-94

**ADMI6510 - Decision Making.**

*3 credits. Three hours of lecture per week Prerequisites: ECOG 6567.*

Examination and analysis of various decision-making models from a systems administration perspective and their role in decision making and the development of systems and processes for the decisional function in organizations. The course explores information systems administration concepts and their uses in the decision-making processes. This course face-to-face, hybrid and online modalities.

**ADMI6531 - Management and Leadership.**

*3 credits. Three hours of lecture per week*

Foundations of the managerial process in organizations. Integration of contemporary approaches to the study of organizational behavior, the human aspect in organizations, leadership in administration and corporate management. This course allows for online and onsite interaction.

**ADMI6540 - Leadership and Business Ethics.**

*Three credits. Three hours of conference per week.*

Integrated study of the nature and responsibilities of a leader, as applied to the activity of management. The course examines the fundamental factors of effective leadership in organizations and their ethical integration into the management process through four basic themes: human conduct in the organization, leadership, the social environment of the company, and the relationship company-management. It examines concepts and theory transcendental to human resources management and diversity management in organizations. This course could be offered onsite, online or blended format.

**ADMI6590 - Entrepreneurship Fundamentals.**

*Three credits. Three hours of conference per week Prerequisites: ADMI 6532, FING 6501, GEOP 6539 AND MERC 6541.*

Integrated study of the nature and responsibilities of a leader, as applied to the activity of management. The course examines the fundamental factors of effective leadership in organizations and their ethical integration into the management process through four basic themes: human conduct in the organization, leadership, the



social environment of the company, and the relationship company-management. It examines concepts and theory transcendental to human resources management and diversity management in organizations. This course could be offered face-to-face, hybrid and online modalities.

**ADMI6595 - Global Strategic Management.**

*3 credits. Three hours of lecture per week Prerequisites: FING 6501, GEOP 6539, MERC 6541, ADMI 6637, ECOG 6567, ADMI 6531 AND THREE*

3 credits. Three hours of lecture per week Prerequisites: FING 6501, GEOP 6539, MERC 6541, ADMI 6637, ECOG 6567, ADMI 6531 AND THREE

**ADMI6631 - Human Behavior in Organizations.**

*Three credits. Three hours of lecture per week Prerequisites: MANA 6531-6532.*

Discussion of the systematic analysis of problems and situations that involve the human element in business. The consistency and inconsistency of outside pressures upon the business organization, their effect on the feelings and behavior of the members of the organization. A comparison is made between the authoritarian management style versus a participatory style of leadership, the emotional problems involved in dynamic vs. Static environments, and optimum ways of motivation for productivity. 10-10-94

**ADMI6632 - Organizational Theory and Change.**

*Three credits. Three hours of discussion per week Prerequisites: ADMI 6531.*

Study of the theory and change in business firms from various perspectives. Emphasis on the development of analytical skills for a better understanding of organizational complexity and for the production of creative actions leading to change and improvement. 16-08-99

**ADMI6633 - Personnel and Industrial Relations Management.**

*Three credits. Three hours of lecture per week Prerequisites: MANA 6531-6532.*

The problem of human resources in business and society. Personnel administration policy and practices, the nature of industrial relations, the role and processes of collective bargaining; management and labor unions in handling of industrial relations, personnel policy, labor relations and the public interest. 10-10-94

**ADMI6635 - Business, Government, And Society.**

*Three credits. Prerequisites: ADMISSION TO GRADUATE PROGRAM OR PERMISSION OF THE PROFESSOR.*

The relationship between the business enterprise, government, and society. The government's role as an essential element in the business environment is examined in areas such as antitrust, minimum wages, taxation, and environmental improvement. Management's public responsibility is analyzed, and attention is given to its participation in legislative, and judicial processes. 10-10-94

**ADMI6637 - Business Ethics.**

*3 credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF DIRECTOR.*

Integrated study of humanities and behavioral sciences information as the apply to economic activity in order to provide future managers a philosophical perspective. Analysis of the development of a philosophy for free markets and the image of men according to humanistic studies and behavioral sciences. Examination of the equal needs and unequal capacities inherently present in the capitalist-worker conflict as well as an analysis of its dynamics and the schools of thought that attempt to find areas of common ground. Explores the impact of the different ethics' philosophies to produce a society that progressively approaches the equal distribution of economic goods. Course face-to-face and hybrid modalities.

**ADMI6650 - Planning and Organization Of New Enterprises.**

*Three credits. Three hours of lecture per week Prerequisites: MANA 6532, QUME 6551, AND ACCO 6501.*

This course will explore opportunities for starting up a business and will offer the student a variety of situational problems by means of which the student will be able to develop an understanding of the wide range of opportunities available. It will explore the need to gather data in order to determine the feasibility of taking a perceived opportunity. It will make the student aware of risks and rewards, the difficulties that may be encountered and the resourcefulness necessary for overcoming them. Specific topics will include ways of developing estimates of market potential; plans for reaching the market; types of production or operating processes and the facilities needed for them; personnel specifications and sources; financial requirements; time schedules and similar considerations involved in determining whether to start business, and if so, how to meet the problems of carrying the business through the early growth into a sound, established position. 10-10-94

#### **ADM16710 - Risk Management Tools.**

*Three credits. Three hours of lecture per week Prerequisites: MECU 6551.*

Study of the use to tools for risk measurement and management. The R programming language and environment is used to calculate risk measures. Emphasis on the interpretation of results and the uses of different tools for decision making. This course will be offered in one of the following modalities: presential, hybrid and online.

#### **ADM16715 - Research Methodology for The Management and Administrative Sciences.**

*Three credits. Three hours of discussion per week.*

Study of the management and administrative research. Emphasis on the applicability of the research to solve problems and formulate theoretical managerial studies. Discussion of lectures and cases related to the procedures used in the management theory construction by the leaders in the management and administrative sciences. Also, it will discuss how paradigms emerge and how the established paradigms have been transformed. This course is offered face-to-face, hybrid and online. Effective January 2022. 08-16-99

#### **ADM16720 - Seminar on Research Project I.**

*Two credits. Two hours of lecture per week Prerequisites: TWENTY FOUR*

Seminar on research techniques in which the student, under the supervision of a professor, will choose a subject for his or her research project, prepare a proposal and an outline of the same and will start the research work (management). 10-10-94

#### **ADM16722 - Seminar on Research Project II.**

*Two credits. Two hours of lecture per week Prerequisites: MANA 6720.*

The student will carry out a research project in his or her area of interest, under the supervision of an instructor who will be the project director, and will submit the project to the director, in writing, in final form. 10-10-94

#### **ADM16728 - Research Seminar in Organizational Behavior.**

*Three credits. Three hours of lecture per week*

In-depth exploration of important current topics in the behavioral sciences and their implications for today's managers. Areas such as consumer behavior, changing employee behavior, the implementation of models, the maps method of organizational design, behavioral implications of accounting, and other current topics are potential material for study and discussion. The particular topics treated will be selected on the basis of students' interests and needs. Both the theoretical underpinnings and the operational, applied aspects of each topic will be discussed. 10-10-94

#### **ADM16730 - Risk Management Tools.**

*Three credits. Three hours of lecture per week Prerequisites: MECU 6551.*

Study of the use of tools for risk measurement and management. The R programming language and environment is used to calculate the risk measures. Emphasis on the interpretation of results and the use of different tools for decision making. It examines concepts and theory transcendental to human resources management and diversity management in organizations. This course will be offered face-to-face, hybrid and distances modalities.

**ADMI6735 - Labor Law and Jurisprudence.**

*Three credits. Three hours of lecture per week Prerequisites: MANA 6531 AND 6532.*

Study of federal and state labor legislation, including jurisprudence concerning working hours, wages, strikes, boycotts, pickets, union representation and legality of labor contracts. 10-10-94

**ADMI6736 - Leadership and Interpersonal Relationships in Organizations.**

*Three credits. Three hours lecture per week.*

Three credits. Three hours lecture per week.

**ADMI6805 - Computers Systems for Managers.**

*Three credits. Three hours of lecture and three of workshop per week.*

Use of the personal computer as a professional workstation. Practical study of packaged software for text processing, data base management, electronic spreadsheets and other applications. Introduction to the ms/dos operating system and the basic language interpreter. 10-10-94

**ADMI6807 - Analysis of Algorithms and Data Structures.**

*Three credits. Three hours of lecture per week Prerequisites: MAMA 6805.*

Introduction to the analysis of computational processes and the principal structures used for storage and representation of data. Numerical and non- numerical algorithms. The design efficient algorithms and structured programming. Applications to data structures using pascal. 10-10-94

**ADMI6815 - Knowledge Processing and Intelligent Systems.**

*Three credits. Three hours of lecture per week Prerequisites: MANA 6807.*

Introduction to the principles of artificial intelligence (ai), with emphasis on knowledge-based systems. The course will address conceptual and fundamental issues concerning general problem solving, knowledge representation, rule-based systems, and expert systems. Problems to be solved by the students will require the design and analysis of the real applications using the prolog programming language. 10-10-94

**ADMI6990 - Seminar in Business Administration Matters.**

*One to 3 credits. One to three hours of seminar per week.*

Analyzes disaster economics based on atmospheric phenomena, the effect on international trade and commerce components of transportation, supplies, Imports and exports. Explores business resilience in the face of these phenomena by comparing the responses of large international companies with those of small and medium-sized enterprises. It is focused on the processes confronted in Puerto Rico after hurricane maria caused severe damage as it hit the island in September 2017. It locates the discussion in the Brader context for the economic crisis in Puerto Rico. Theme: development, financing and project management: Panama. P. H.

**ADMI6995 - Cooperative Education Experience.**

*Two to Four credits. Regular academic semester: student must work 20-30 hours per week for three experiences in applying theoretical knowledge of business fields to a full-time paid work situation with academic supervision. Course face-to-face, hybrid and online modalities. 10-10-94*

**ADMI8005 - Doctoral Seminar.**

*One credits. Five sessions of three hours during the semester Prerequisites: BE A STUDENT OF THE DOCTORAL PROGRAM.*

Discussion of contemporaneous topics of investigative and empirical character relevant to the field of business administration. Study of the ethical, environmental and social dilemmas, and implications of management decisions, the entrepreneurship theory and activities, and the educational methodology. Development of skills for electronic information search and preparation of publishable articles. Topics will vary each time the seminar is offered. This course will be repeated at least four times. 08-16-99

**ADMI8105 - Doctoral Dissertation.**

*Four credits. Four hours of doctoral dissertation per week Prerequisites: HAVE APPROVED COMPREHENSIVE EXAM.*

The doctoral dissertation course is the space created for the student to demonstrate that he/she possesses the capability for the creation, and defense of a proposal and conclusion of a doctoral thesis. This process is made with the assistance of the counseling committee which has the main function of helping the student in the development of a product with the highest quality. The student will have to complete a minimum of twelve credits of doctoral dissertation. 13-08-02

**ADMI8106 - Doctoral Thesis Continuation.**

*One credits. Prerequisites: ADMI8105*

It is a continuation course of doctoral dissertation. This course allows those students who have completed the required dissertation credit requirements to maintain active status and full load while completing their thesis work.

**COIN6700 - Management Strategy in A Global Environment.**

*3 credits. Three hours of lecture per week Prerequisites: ADMI 6351.*

Analysis of theory practices of international managerial systems within the social environment including anthropological and cultural considerations, the environment strengths and weaknesses of available resources, organizational structures, organizations and values with a global content.

**COIN6702 - International Business Theory and Environment.**

*3 credits. Three hours of lecture per week.*

The introductory course focuses on the environment, opportunities and threats faced by businesses operating in an uncertain and changing environment. The course presents a critical analysis of international business theories, form the ones that explain the development of export/import sole operations to the firm that expands using foreign direct investment strategies. The unit of analysis of this course is the firm.

**COIN6703 - International Business and Market Research.**

*Three credits. Three hours of lecture per week Prerequisites: MECU 6551 OR EQUIVALENT.*

This course explains the international market and business research process from a practical, legal and ethical stand. The course combines theory and practice with focus on the problems international researchers face. International business research process will cover design, method, instrument development, sampling, data collection, data analysis and presentation of results.

**COIN6705 - International Economics Seminar.**

*3 credits. Three hours of discussion per week Prerequisites: FING 6501, ECOG 6567.*

This course provides the student with the basic reference framework on the effect of the economic environment in the international business. It will be analyzed and will discuss the international economic environment in which operates the corporate business.

**COIN6706 - International Business in Latin America and The Caribbean.**

*3 credits. Three hours of lecture per week Prerequisites: COIN 6702 OR PERMISSION OF THE DIRECTOR.*

This course explores conceptual approaches to study international business in Latin America and the Caribbean. The thematic content is divided into four components: a typology of international business in the region; international business and regional integration agreements; International companies, natural resources and environmental conflicts; and sustainable investment and trade. This course will be taught face-to-face, hybrid or online.

**COIN6707 - Logistics and International Operations Management.**

*Three credits. Three hours of discussion per week Prerequisites: GEOP 6539, MERC 6541.*

Study of topics related to the use of global operations to improve supply chain performances and global competitiveness. Discussion of topics related to the creation of global operations projects to leverage customer-supplier and subsidiary relations. Analysis on streamlining value chains, improving coordination, and improving distribution channel performance. 08-06-98

**COIN6708 - Legal Aspects of Global Business.**

*Three credits. Three hours of lecture per week.*

Study of the major legal aspects in global business operations. Introduction to public international law and those concepts that directly or indirectly have an impact on trade and commercial disputes. Emphasis is given to current issues and controversies that occurs in commerce between nations. Some of the topics discussed are nations sovereignty, international treaties (e.g, gatt, nafta), United Nations and its structure, European union, international business dispute resolutions mechanisms, intellectual property global issues, and international taxation issues. 20-01-98

**COIN6905 - International Business Internship.**

*Three credits. 20-30 hours of supervised practice per week Prerequisites: THREE REQUIRED COURSES IN THE INTERNATIONAL BUSINESS PROGRAM. GENERAL GRADE POINT AVERAGE OF 3.00.*

Experience in which the student applies the conceptual and theoretical knowledge acquired and related to the international business activities. 17-08-98

**COIN8005 - International Business Seminar.**

*Three credits. Three hours of seminar per week Prerequisites: MANAGERIAL MICO-ECONOMICS*

Discussion of concepts and theories of international business, advantages and disadvantages of the economic and political agreements between countries, and international managerial policy alternatives used by the firm, including those used in Latin America. Study of the institutions and processes that affect the international businesses behavior, the interrelation between nations, and international firms. 19-01-2000

**COIN8006 - Legal and Regulatory Aspects of International Business.**

*Three credits. Three hours of lecture per week Prerequisites: COIN 8005.*

Study and analysis of the current and emergent national laws and regulations for decision making related to international business and the institutions that regulate international transactions. Includes the legal, governmental and political background and aspects that affect the commercial transaction of the multinational enterprises in Latin America and the Caribbean. August 14, 2000.

**COIN8007 - International Business in Latin America.**

*Three credits. Three hours of discussion per week Prerequisites: COIN 8005.*

Issues related to the Latin American business transactions, the integration process and their relations with g-7's countries. January 17, 2001.

**COIN8008 - International Operations Management.**

*Three credits. Three hours lecture per week Prerequisites: COIN 8005*

Analysis and study of the supply chains, logistics systems and productive systems necessary to provide, maintain and manage the flow of materials and information in organizations that operate in an international scale. The course provides the student a space for a detailed and critic analysis of the design of such systems, and so that the student examines the latest research carried out on these themes.

**COIN8015 - International Organizational Design, Structure and Culture.**

*Three credits. Three hours of discussion per week Prerequisites: COIN 8005.*

Study of most recent organizational design, structure, and culture theories and their effects on the performance, efficiency, effectiveness and adaptability of the international enterprise. Emphasis in the study of cultural manifestations in the enterprise performance and ways to manage them. August 14, 2000.

**COIN8016 - Comparative Business Systems.**

*Three credits. Three hours of discussion per week Prerequisites: COIN 8005.*

Study and analysis of differences in process, structure and power, among others, within the organization in different countries. Emphasis on the comparison of the business processes and practices in United State, Europe, Japan, Latin America and the Caribbean using as reference the emergent literature on organizational culture, organizational sciences and classic contingency theory. This course will be offered in the following modalities: face-to-face, hybrid and online. Effective August 2023. August 14, 2000.

**COIN8018 - Independent Studies on International Business.**

*Three credits. Three hours of discussion per week Prerequisites: COIN 8005 AND 8016.*

Independent research specialized in one of the areas of international business chosen by the student after consultation with an expert professor in the field. January 17, 2001.

**COIN8025 - International Finance and Economics.**

*Three credits. Three hours of discussion per week Prerequisites: ECOG 6701 OR ITS EQUIVALENT OR 6703 OR ITS EQUIVALENT.*

Study of the international monetary system and its role in determining currency exchange rates. The factors that influence international investments, the characteristics of the international financial institutions and its relation to domestic markets will be analyzed. August 14, 2000.

**COIN8026 - International Business Strategy.**

*Three credits. Three hours of discussion per week Prerequisites: COIN 8005.*

Study of different frameworks for evaluating competitive positions in an uncertain environment and descriptive models of the future performance of enterprises that compete in international industries. Comparisons between multidomestic and transnational strategies and global alliances, including Latin American enterprises. January 17, 2001.

**COIN8027 - Contemporary Issues in International Business and Trade.**

*Three credits. Three hours of lecture per week Prerequisites: COIN 8005*

Study of theories and research methodologies of contemporary topics in the fields of international commerce and business. The course can be repeated up to a maximum of four times, whenever the topic does not repeat itself.

**COIN8028 - International Marketing Strategies.**

*Three credits. Three hours of discussion per week Prerequisites: COIN 8005.*

Critical analysis and the development of marketing strategies and tactics used by multinational corporations in international markets. This course can be offered presential, hybrid and online. Effective August 2020.  
January 17, 2001.

**CONT6501 - Accounting for Analysis and Control.**

*3 credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF DIRECTOR.*

Introduction to the concepts, terminology, purposes and processes, analysis of situation, problems, and methodologies of financial and managerial accounting. The course emphasizes managers' need for information for decision making and operational planning and control in order to accomplish firm objectives in an efficient and effective way within a technologically dynamic setting.

**CONT6701 - Theory and Problems of Financial Accounting I.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6501.*

Critical survey of the concepts and standards upon which periodic financial statements are based. Analysis of the problems underlying the classification and quantification of data for the preparation of general corporate reports and special reports used by management in decision-making. Also, to be discussed: review of basic concepts and standards, income determination, determination and allocation of costs, asset valuation, income statements, and price-level changes. 10-10-94

**CONT6702 - Theory and Problems of Financial Accounting II.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6701.*

Corporate financial accounting is stressed although equity in non-corporate institutions is also analyzed. Some subjects reviewed are sources of capital, bonds, profit, pension-fund credit, convertible bonds and profit equity, cash flow, inter-corporate and other investments, mergers through purchase and fusion and specific problems of partnerships. 10-10-94

**CONT6705 - Cost Control and Cost Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6701.*

Study of the basic methods and procedures used in determination and controlling the cost of materials and labor, and in determining and controlling the indirect costs associated with the manufacturing process. Aspects stressed are the usefulness of cost accounting for management decisions and the development of historical statistics and projections for the company; cost control through accountability; standard costs; budgeting; analysis of variables and the effective communication of reasons leading to the success or failure of diverse programs of action. 10-10-94

**CONT6707 - Taxation for Managers.**

*3 credits. Three hours of lecture per week Prerequisites: CONT6501 OR ITS EQUIVALENT*

Introduction to tax matters relevant to managers. Several Puerto Rico tax laws and their effect on managerial decision making will be addressed. Property and excise tax, as well as other sources of state and municipal government revenues will be addressed. Relevant federal and state tax aspects, and their effects on decision making will also be analyzed.

**CONT6709 - Auditing Theory and Philosophy.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6501.*

Emphasis will be given the social role of the auditor, acquainting the student with the standards, goals and procedures of auditing. Includes the ethics and legal responsibilities of the auditor, the goals, nature, procedures, and modern techniques of auditing, the management of an audit, and the areas to be included in an audit. Included among the modern auditing techniques are statistical sampling and the use of electronic systems. The role of the auditor as management consultant on taxes and other business problems is also

discussed. Cases and problems complement readings. 10-10-94

**CONT6711 - Accounting for Management Decisions.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6702 OR PERMISSION OF THE INSTRUCTOR.*

Review of the methodology of cost analysis as a requisite for decision-making and the formulation of management policies by businesses. Consideration will be given to the importance of quantitative analysis for investment planning, for evaluating executive performance, for the establishment of pricing and marketing practices, and for purchasing decisions on cost per volume studies. Direct cost analysis, break-even curves, and differential cost as techniques to help in establishing evaluation criteria for past or future performance are also discussed. 10-10-94

**CONT6715 - Federal Taxation.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6501.*

Relevant sections of the federal tax laws and regulations are discussed in their diverse application to individuals, trade societies (partnerships), corporations, and other bodies. The influence of tax laws on the decision-making process is examined. Financial methods are confronted with methods of taxation. 10-10-94

**CONT6719 - Accounting Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6701-6702.*

This course will be used to study contemporary topics of relevance to accounting from the theoretical and practical perspectives. 10-10-94

**CONT6725 - Budgeting, Planning and Control: Concepts and Practices.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6501.*

A thoroughly comprehensive and integrated approach to the topic of budgeting, leading to a thorough understanding of the profit planning and control process including familiarity with all aspects of the goals, technical procedures, and effects of budgeting. Divisional performance measurement and control is also discussed. 10-10-94

**CONT6735 - International Accounting.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6701 AND ACCO 6702.*

Study of accounting aspects of operations in multinationals, such as foreign exchange transactions, transfer prices and international taxes. 10-10-94

**CONT6745 - Information Systems Auditing.**

*Three credits. Three hours of lecture per week.*

Study of the internal controls and their respective processes of the audit of information systems. In this course, it will be examined the standards and methodologies of greater acceptance that govern the audit of information systems. In addition, the main governmental regulations that prevails to this type of audit will be considered.

**ECOG6567 - Managerial Economics.**

*3 credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF DIRECTOR.*

Examination of the basic principles of economics, specifically those related to the neoclassic theory of the firm. It covers the integration of fundamental theories of microeconomics with applications in finance and economics, among other topics, with an emphasis on the application of these theories in the managerial decision-making process in a business context. This course allows for online and onsite interaction. This course offered face-to-face, hybrid and online. Effective August 2020.



**ECOG6611 - Economics for Managers II.**

*Three credits. Three hours of lecture per week Prerequisites: MAEC 6567.*

A study of modern macroeconomics from the viewpoint of measurement (national income accounts), analysis (macroeconomics theory), and policy (achievement of high levels of employment, reasonable price stability, and rapid economic growth). Monetary and fiscal policies are examined in order to provide an understanding of the economic environment in which the firm operates. 10-10-94

**ECOG6701 - Managerial Micro-economics: Theory of Values.**

*3 credits. Three hours of lecture per week.*

In this course we will study pluralist approaches to microeconomics and its components: markets (supply and demand); production theory; markets and costs according to various market structures (perfect competition, monopoly, and imperfect competition). This analysis will integrate a perspective of the history of economic thought and will establish relations with the study of international business and trade. The course will be offered in a research- based learning format. This course will be offered under face-to-face, hybrid and online modalities.

**ECOG6703 - Managerial Macro-economic: Theory of Income and Money.**

*Three credits. Three hours of lecture per week Prerequisites: MAEC 6611.*

A course in aggregate economic theory. It includes the analysis involved in the determination of national income production, employment, and price levels. It examines the effects of consumption, investment, cash flows, interest rates, monetary policy, fiscal policy and public debt policy. It also establishes a relationship between theoretical analysis and present economic problems and how these affect the enterprise. 10-10-94

**ECOG6705 - Economic Policy for Managers.**

*Three credits. Three hours of lecture per week Prerequisites: MAEC 6703.*

A review of economic policy goals and rigorously critical analysis of theoretical and empirical developments in the following specialized areas of economic policy: monetary policy, fiscal policy, and management of public debt (government finances). Special stress will be placed on the effects of economic policy on business. 10-10-94

**ECOG6707 - Business Enterprise, Economic Cycles and Projections.**

*Three credits. Three hours of lecture per week Prerequisites: MAEC 6611.*

A critical appraisal of the use of economic projections in the management decision process. General macro-economic projection based on economic cycles and specific market projections are discussed. Recently developed techniques of forecasting are examined; these include total economic variables. The reliability of predictions based on various kinds of historical series and data based on the expectations or short-term projections about national income and its components. The student will demonstrate his mastery of this subject by applying these techniques to the development of specific market projections. 10-10-94

**ECOG6713 - The Firm and Economic Growth.**

*Three credits. Three hours of lecture per week Prerequisites: MAEC 6611 AND 6567.*

An analysis of the process of economic development as experienced in different countries, with special reference to Puerto Rico. The following topics will be examined: economic and non-economic factors involved in economic development and the goals of the nation; technological change; resource accumulation and resource disposal; human capital; the roles of the agricultural sector, international trade and development planning. 10-10-94

**ECOG6717 - Managers Workshop on The Economic Development of Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: MAEC 6713.*

This is basically a research workshop. The class will be organized into small groups, each of which will carry on research on a specific current problem of Puerto Rico' economy. Before this research work begins, the class will discuss briefly the salient problems and characteristics of the Puerto Rican economy. 10-10-94

**ECOG6719 - Seminar for Managers in The Puerto Rican Economy.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE SCHOOL OF BUSINESS ADMINISTRATION.*

Study of the service sector of the Puerto Rican economy, its dramatics growth during the last 30 years, and the main problems that this sector actually faces. 10-10-94

**ECOG6720 - Seminar: Research Project I.**

*Two credits. Two hours of lecture per week Prerequisites: 24*

Seminar on research techniques in which the student, under the supervision of the professor, will choose a subject for his research project, will prepare a proposal and an outline of the same and will start the research work (managerial economics) 10-10-94

**ECOG6721 - Seminar on Research Project Ii.**

*Two credits. Two hours of lecture per week Prerequisites: MAEC 6720.*

The student will carry out a research project in his or her area of interest under the supervision of an instructor, who will be the project director, and will submit the project to the director, in writing, in final form. 10-10-94

**ECOG6735 - Caribbean Economic Development.**

*3 credits. Three hours of lecture per week Prerequisites: ECOG 6567 OR PERMISSION FROM THE DIRECTOR*  
Analyzes economic development patterns and characteristics of the greater Caribbean. Discusses the contributions of Caribbean authors to the history of thought of economic development theory. Analyzes industrialization strategies that have been implemented in the area, as well as alternative development models and industrial policies. Contemporary issues are incorporated into the course each semester. This course will be offered face-to-face, hybrid or online.

**ECOG8005 - Managerial Macroeconomics.**

*Three credits. Three hours of lecture per week Prerequisites: ECOG 6567 OR EQUIVALENT CALCULO I.*

This doctoral level course involves analysis of national income, employment, and price levels. We analyze monetary and fiscal policy and how these polices affect the three measurements of the aggregate economy. We explore different theories and their predicted relationship of government policy to national welfare.

**FING6501 - Corporate Finance.**

*3 credits. Three hours of lecture per week Prerequisites: CONT 6501, MECU 651.*

Introduction to the theory and practice of corporate finance within the context of a firm that operates in competitive financial markets. Topics include valuation, investments in capital assets, financing, dividend polices, corporate control, risk management, international finance and corporate financial planning. This course allows for online and onsite interaction.

**FING6621 - Banking and Financial Institutions.**

*Three credits. Three hours of lecture per week Prerequisites: MAEC 6611 OR PERMISSION OF THE INSTRUCTOR.*

Review of banking institutions and non-financial institutions. The problems and principles of monetary units of central banking systems and international finance. Emphasis on the implementation and evaluation of

monetary policy. 10-10-94

**FING6703 - Advanced Business Finance.**

*Three credits. Three hours of lecture per week Prerequisites: ACCO 6501, MAFI 6501, QUME 6551.*

Theory and practice of corporate finance, asset management, capital budgeting, problems of optimization, and socio-economic aspects of financial management. The use of quantitative tools in the analysis of real cases is stressed. 10-10-94

**FING6707 - Investments.**

*Three credits. Three hours of lecture per week Prerequisites: MAFI 6501 AND QUME 6551.*

Principles and practice of investments, stressing the analysis of investments, the elements of the process of investing money, and the establishment of criteria in the selection of various investment choices. Simulation and mathematical programming techniques are used. 10-10-94

**FING6709 - Real Estate Financing.**

*Three credits. Three hours of lecture per week Prerequisites: FING 6621 AND MECU 6551.*

Analysis of the mortgage market, the development and impact of private and public units engaged in real estate financing, typical investment and real estate financing problems, the relationship between real estate investment and the capital market, and the role of credit in the real estate market. 10-10-94

**FING6710 - Options, Futures and Other Derivatives.**

*Three credits. Three hours of discussion per week Prerequisites: MAFI-6501 ACCO-6501.*

Intensive and extensive discussion of the theory and applications of derivatives and future investment vehicles to the process of portfolio management and corporate financial risk control. Applications in the investment trading fields. Detailed evaluation of the global market for synthetic and derivatives products, particularly the role played by European investors. Legal, technological and accounting issues will be discussed to the extent they affect the activities being carried out in the derivative markets. 08-19-96

**FING6711 - Theory and Structure of Financial Markets.**

*Three credits. Three hours of lecture per week Prerequisites: FING 6501.*

Analysis of the structure of financial markets and the application of current monetary and economic theories to the markets. The role of financial theory and policy; the influence of a structure on the functions of financial markets; interdependence of real and financial variables in economic activity. 10-10-94

**FING6713 - Management of Banks and Other Financial Institutions.**

*Three credits. Three hours of lecture per week Prerequisites: MAFI 6621 OR PERMISSION OF THE INSTRUCTOR.*

Analysis of the legal and economic principles involved in the determination of a managerial policy for various types of financial institutions. The following topics will be included: handling of assets and capital sources and the uses of funds, financial institutions competition and debts; sources of capital and the uses of funds; competition between financial institutions; structural problems of industries (including branch stores, chain stores, and consolidations). 10-10-94

**FING6717 - International Commerce and Finance.**

*Three credits. Three hours of lecture per week Prerequisites: FING 6621.*

Analysis of trade theory and policy and the theory of international monetary policy. The following topics will also be discussed: capital flows, balance of payments, monetary market exchange, and adjustments in economic activity within flexible monetary exchange systems. 10-10-94

**FING6719 - Public Finance.**

*Three credits. Three hours of lecture per week Prerequisites: FING 6501.*

The sources and use of government funds. The impact of government expenditures and taxes on the level of national income. The influence of taxes and government spending on local goals. 10-10-94

**FING6721 - Research Seminar in Finance.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS IN THE GRADUATE LEVEL WORKING TOWARD A MAJOR IN FINANCE.*

This course will familiarize the student with the logic and methods of research in the field of corporate finance. Participants will undertake research in the area of macrofinance, covering the structure and organization of financial market determination of interest rate and financial asset prices, as well as the internal and external aspects of cash flows, the relation of money and development, public finance, and any other topic concerning aggregate finance usually denoted as money and banking. The faculty in charge will supervise the methodology of the research providing close assistance and becoming involved with the student work. Meetings and contents will depend on student interest. 10-10-94

**FING6722 - Seminar on Research Project.**

*1 credit.*

1 credit.

**FING6723 - Seminar on Research Project II.**

*Two credits. Two hours of lecture per week Prerequisites: MAFI 6722.*

The student will carry out a research project in his or her area of interest under the supervision of an instructor, who will be the project director, and will submit the project to the director, in writing, in final form. 10-10-94

**FING6725 - International Investments.**

*Three credits. Three hours of discussion per week Prerequisites: MAFI 6501, ACCO 6501 OR BBA WITH SPECIALIZATION IN FINANCE OR ACCOUNTING.*

Study of diverse macroeconomic, political, and social aspects that have helped to encourage the individual and institutional investors to look at the international capital markets and a viable investments alternative. The mechanism used to minimize the risks caused by the volatility in the exchange rates and the tactical moves used to take advantage of these fluctuations will be examined.

**FING8005 - Theory of Finance I.**

*Three credits. Three hours of discussion per week Prerequisites: ECOG 6701, ECOG 6703 AND MECU 8005.*

Discussion of the most recent research trends in the finance discipline. Emphasis on the impact of the theory on the financial research conceptual frameworks in Latin America and the Caribbean. Critical analysis of recent legal, social, and ethical issues in the financial and economic environment. 19-01-2000

**FING8006 - Theory of Finance II.**

*Three credits. Three hours of lecture per week Prerequisites: FING 8005*

The application of the financial theory will be discussed in the broader context of the corporation. The corporate sectors of manufacturing and services will be examined. Study of the revision of the empirical evidence from the perspective of the economic positivism. The application of the financial theory in Latin America, the Caribbean and the United States will be emphasized. August 14, 2000.

**FING8017 - Quantitative Methods for Finance.**

*Three credits. Three hours of discussion per week Prerequisites: FING 8005.*

Study of the advanced methodological tools required to do research in finance and investment analysis. The modern portfolio theory will be emphasized. Software programs of optimization and statistical analysis will be used to evaluate and to exam the corporations and the investment markets of Latin America and the Caribbean. August 14, 2000.

#### **FING8019 - Independent Studies in Finance.**

*Three credits. Three hours independent studies per week*

Independent research in a specialized finance topic in an area of interest whose content is partially or not offered in other courses of the doctoral program. It is fulfilled with the help of a professor who is an expert in the topic. This course can be repeated up to two times (6 credits). August 14, 2000.

#### **FING8025 - Investment Markets.**

*Three credits. Three hours of discussion per week Prerequisites: FING 8005.*

The most recent research of diverse lines of thoughts on the investment area and the interrelation of those lines with the impact of the investment methods in the domestics, Latin America, and the Caribbean financial markets will be analyzed. Also, the theoretical views for analyzing the topic of investment markets under uncertainty within the scope of other disciplines such as microeconomics, macroeconomics and accounting will be discussed. August 14, 2000.

#### **FING8027 - Corporate Finance.**

*Three credits. Three hours of lecture per week Prerequisites: FING 8005.*

The research results of the most recent and controversial developments in the area of corporate finance will be studied. The modern corporation's financial problems and possible research solutions to these problems will be discussed. The results of research projects regarding the finance of modern Latin American corporations will be critically analyzed. January 17, 2001.

#### **FING8029 - Contemporary Topics in Financial Markets Three Credits. Three Hours of Discussion Per Week. Prerequisite: Fing.**

*8005. credits.*

Integrative study of the structure and dynamics of international financial markets and their linkages to domestic markets. Emphasis on the recent studies on the optimization of international financial assets portfolios. August 14, 2000.

#### **GEOP6539 - Operations Management.**

*3 credits. Three hours of lecture per week Prerequisites: MECU 6551.*

Examination of planning, managing, control and improvement of operations systems within organizations. Includes the analysis of various quantitative and qualitative models used in the practice of business. The course explores techniques, models and strategies that organizations use to gain a competitive advantage in creating goods and providing services while focusing on the analysis of processes and systems that lead to the accomplishment of operational objectives. This course allows for online and onsite interaction.

#### **GEOP6701 - Global Supply Chain Management.**

*Three credits. Three hours of discussion per week Prerequisites: GEOP 6539, MERC 6541 Y MECU 6552.*

Integrated study of the nature and responsibilities of a leader, as applied to the activity of management. The course examines the fundamental factors of effective leadership in organizations and their ethical integration into the management process through four basic themes: human conduct in the organization, leadership, the social environment of the company, and the relationship company-management. It examines concepts and theory transcendental to human resources management and diversity management in organizations. This course could be offered face-to-face, hybrid and online modalities.

**GEOP6703 - Project and Process Management.**

*3 credits. Three hours of lecture per week Prerequisites: GEOP 6551.*

The course considers methods and techniques required to analyze, design, implement and manage processes and projects in organizations. Topics related to process management students include process identification modeling, evaluation and efficiency improvement of processes in the organization and its components. In project management, the course examines the theory and best practices adopted by successful organizations, in particular the methods and techniques related to planning, implementation and monitoring of activities. Students participate in structured workshops to examine processes and projects

**GEOP6704 - Purchasing Management.**

*Three credits. Three hours of lecture per week Prerequisites: OPMA 6639.*

The course emphasizes the method for the formulation of a coherent purchasing policy. The following subjects are discussed: vendor selection, quantity and quality decisions, bidding procedures, analysis of the decision between buying or making a part, and the relationship between the sales price and the purchase price. 10-10-94

**GEOP6706 - Contemporary Themes in Operations Management.**

*Three credits. Three hours of lecture per week Prerequisites: GEOP 6539, MECU 6551.*

Study of transcendental and contemporary themes in the management of operations. Discussion of studies, technical, methodologies and diverse visions, and its implications in different business sectors. Each time the course is offered, different topics will be discussed. The student will be able to register in the course a maximum of three times.

**GEOP6707 - Advanced Production Management.**

*Three credits. Three hours of lecture per week*

Readings and cases are surveyed to cover the following areas: effective equipment location, purchasing of a physical facility, equipment selection, physical disposition inside the plan, quality and production standards, material purchasing, supply operations, inventory control, and worker's incentives. 10-10-94

**GEOP6708 - Operations Management for Service Business.**

*Three credits. Three hours of lecture per week Prerequisites: GEOP 6639*

Discussion of concepts and issues that help understanding particular aspects in the operations of business that provide services. Study of the latest tendencies and characteristics of various industries of the service sector as well as methodologies designed for improving the productivity of private public service organizations.

**GEOP6709 - The Operations Manager and The Firm.**

*Three credits. Three hours of lecture per week Prerequisites: OPMA 6639.*

An in-depth analysis of the functional interrelationship between the operations manager and the decision process of the firm. 10-10-94

**GEOP6723 - Statistical Methods for Quality Control.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 6551.*

The use of statistical techniques (control graphs), in the detection of special causes and location of the responsibility for the reduction of the variability of quantity. The statistical techniques for standardization and specification of performance. Consideration of the costs involved in the control of quality. Design of procedures for the acceptance, rejection or repairs of lots of units of production and the impact of such decisions on inventory policy. Statistical controls in supervision and their management and personnel policy

applications is business. Elementary theory of the reliability of parts and of complex equipment. Maintenance and replacement of equipment. 10-10-94

**GEOP6726 - Quality Management.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: QUME 6551.*

Study of the managerial activities related to quality assurance in manufacturing and service organizations. 10-10-94

**GEOP6735 - Supply Chain Management.**

*Three credits. Three hours of lecture per week Prerequisites: GEOP 6639*

Study of the management of material flow and information through the different stages of the organization. The activities more important of a supply chain and the interactions between these are considered to form an efficient organizational collective. This course will provide the student the knowledge and tools necessary to develop, implement, and maintain strategies for the management of related subjects of the supply chains.

**GEOP6736 - Materials Management.**

*GEOP6736 - Materials Management.*

The managerial function related to the complete cycle of material flow within the enterprise, from purchasing, internal control of production materials, planning and control of work in process to warehousing shipping, and distribution of finished goods. 10-10-94

**GEOP6737 - Seminar on Research Project I.**

*Two credits. Two hours of lecture per week Prerequisites: TWENTY FOUR*

Seminar on research techniques in which the student, under the supervision of a professor, will choose a subject for his research project, will prepare a proposal and an outline of the same and will start the research work (production management). 10-10-94

**GEOP6738 - Seminar on Research Project II.**

*Two credits. Two hours of lecture per week Prerequisites: OPMA 6737.*

Carry out a research project in the student's interest area (production management) under the supervision of a professor that will be his/her project director and submit it to him in writing in final form to be presented to the faculty. 10-10-94

**MECU6551 - Fundamental Aspects of Statistics.**

*3 credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF DIRECTOR.*

Examination of the descriptive phase of statistics, probability, probability distribution and the principles of classical and Bayesian inference. Emphasizes the interpretation and use of data and statistics. This course allows for online and onsite interaction.

**MECU6552 - Analytics for Decision Making.**

*Three credits. Prerequisites: MECU 6551.*

Study of the use of business-analytics in the formulation, analysis, and solution of quantitative models to solve business problems that support the decision making of the management. Through the application of various tools, students will examine data, develop models, recommend actions, and evaluate the impact of each action on specific objectives. It provides practical experience working with various quantitative models, emphasizing applications in various company's functions and contexts. This course could be offered onsite, online or blended format. This course offered face-to-face, hybrid and distance.

**MECU6651 - Quantitative Methods.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 6551*

The formulation and analysis of the problems encountered by business managers in the decision-making process. Mathematical models of business problems under conditions of certainty and uncertainty. The student will use computers in manipulating data. 10-10-94

**MECU6655 - Analysis and Forecasting of Chronological Series.**

*Three credits. Three hours of lecture per week Prerequisites: MECU 6551*

The practice of socio-economic and financial forecasting using a broad range of statistical forecasting methodology. It includes statistical techniques such as autoregressive-integrated-moving average (arima) family of models, based on the box-Jenkins approach and the state space forecasting model. The emphasis is on selection of the method, fitting the statistical model, and interpreting the results as well as their implications. Emphasis is also given to the underlying theory behind the methods, so that the student will learn to understand each technique, to relate it to other techniques, and to explain the results to others. The students will be able to analyze real life cases using statistical packages in both mainframe and microcomputers. 10-10-94

**MECU6701 - Theory of Probability.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 6551, QUME 6651 OR PERMISSION OF THE DIRECTOR*

This course includes various concepts of probability, generating functions and stochastic processes. 10-10-94

**MECU6703 - Statistical Inference.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 6701 OR PERMISSION OF THE DIRECTOR*

Estimation theory, tests of hypotheses, confidence intervals, subjective probability, prior and posterior distribution, the likelihood principles and the bayes theorem as well as Bayesian inference and non-parametric free distribution techniques. 10-10-94

**MECU6705 - Linear Models.**

*Three credits. Three hours of lecture per week*

Linear and curved models, orthogonal variables; fixed, random or mixed models of one or two factors. 10-10-94

**MECU6707 - Statistical Theory.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 6703*

Advanced course in the theory of estimation and hypothesis testing, estimation criteria, the roa-blackwell theorem, sequential estimation, best tests theory, the Neyman Pearson lemma, likelihood ratio tests, use of principles of invariance and symmetry in the construction of tests. 10-10-94

**MECU6709 - Decision Theory.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 6551 OR ITS EQUIVALENT*

Methods of analysis under conditions of uncertainty. Includes the application of subjective probability and the use of utility theory. Comparison of classical and contemporary methods. 10-10-94

**MECU6713 - Sampling.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 6703*

Application of statistical theory to the sampling of human population, business establishments records and physical materials. A survey of a small area; designs for a city, for a region, and for a whole country. Theory of stratification and choice of sampling unit. 10-10-94



**MECU6715 - Econometrics I.**

*Three credits. Prerequisites: QUME 6551, 6651, MAEC 6567*

Specification, estimation and testing of economic models of demand and production. Emphasis is given to the application of statistical methods in economics and business problems. 10-10-94

**MECU6717 - Econometrics II.**

*Three credits. Prerequisites: QUME 6715*

Autoregressive and distributed lag models. Consideration of techniques of long and short run forecasts of business activity both for the economy and for firms and industries. 10-10-94

**MECU6719 - Operations Research.**

*Three credits. Three hours of lecture per week Prerequisites: QUME 6651*

Mathematical and statistical models used in solving business problems. Linear programming, input-output analysis, game theory, simulation and management games, inventory control and other applications of statistical optimization. 10-10-94

**MECU6720 - Seminar on Research Project I.**

*Two credits. Two hours of lecture per week Prerequisites: TWENTY FOUR*

Seminar on research techniques in which the student, under the supervision of the professor, will choose a subject for his research project, will prepare a proposal and an outline of the same and will start the research work (quantitative methods). 10-10-94

**MECU6722 - Seminar on Research Project II.**

*Two credits. Two hours of lecture per week Prerequisites: QUME 6720*

Carry out a research project in the student's interest area (quantitative methods) under the supervision of a professor, that will be his/her project director, and submit it to him in writing in final form to be presented to the faculty. 10-10-94

**MECU6725 - Quantitative Methods for Management Decisions.**

*Three credits. Three hours of lecture per week Prerequisites: MECU 6551*

This course provides an introduction to the used of quantitative models in the decision-making process in the managerial and administrative science. Models of deterministic and stochastic nature are discussed, like descriptive and normative models. The main center of this course is in the formulation and use of mathematical models and softwares, and in the analysis and interpretation of the results. The course provides a comprehensive foundation in analytical tools for other courses. 21-01-03

**MECU6739 - Multivariate Analysis.**

*Three credits. Three hours of discussion per week Prerequisites: MECU 6551.*

This course provides an introduction to the most utilized techniques in the multivariate analysis. The course will discuss the theory of each technique, the most common problems in its application, and the correct way to interpret and to present results. The course will be complemented with the use of statistic software. During the courses examples of the different specializations of the administrative and managerial sciences will be discussed.

**MECU8005 - Integrated Probabilistic and Statistical Analysis.**

*Three credits. Three hours of discussion per week Prerequisites: 1. AT LEAST ONE STATISTICS COURSE OF MASTER'S DEGREE LEVEL. 2. MATHEMATIC COURSES THAT INCLUDE DIFFERENTIAL AND INTEGRAL CALCULUS. 3. COURSE OF MATRIX ALGEBRA OR ITS EQUIVALENT. 4. KNOWLEDGE OF A STATISTICS PROGRAM (FOR EXAMPLE, SAS, SPSS, NCSS OR MINITAB).*

Comprehensive study of the principles of probabilistic and statistical analysis. Includes the fundamentals of stochastic and deterministic models necessary to understand the modeling used in the field of business. 08-16-99

**MERC6541 - Market Management.**

*3 credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF DIRECTOR.*

Study of the strategic and tactical processes that profit and not-for-profit organizations carry out to satisfy the needs and wants of their clients. It is oriented towards the management of activities performed by professionals in marketing when promising value to their domestic, international, or global clients as well as to what said professionals can expect from clients in regard to said activities. This course allows for online and onsite interaction.

**MERC6701 - Advanced Market Management.**

*Three credits. Three hours of lecture per week Prerequisites: MARK 6541.*

A continuation of the basic course in marketing. Topics covered include product planning and development, price determination, advertising and selling, distribution polices, the logistics of physical supply and international marketing. Attention will be given to the development of a research project as well as to cases and problems. 10-10-94

**MERC6705 - Market Research.**

*Three credits. Three hours of lecture per week Prerequisites: MARK 6541 AND QUME 6551.*

Market research methods as critical tools for problem solving and for maximizing marketing efficiency. All modern techniques, including the most recent developments in the field, are discussed. Cases and group projects are employed. 10-10-94

**MERC6706 - Quantitative Methods in Marketing.**

*Three credits. Three hours of lecture per week Prerequisites: MARK 6541 AND QUME 6551.*

This course includes selected topics on the development of mathematical models and management science as they may be applied to marketing problems. 10-10-94

**MERC6708 - Consumer Motivation and Behavior.**

*Three credits.*

Designed for second-year students specializing in marketing. The economics and psychology of consumer behavior and applications. 10-10-94

**MERC6714 - Product Strategy and Management.**

*Three credits. Eight hours of lecture per week Prerequisites: MARK 6541.*

Emphasis on the process of new product development, the development and management of the product mix in the multi-product firm. Topics include identification and screening of new product opportunities, evaluation of product performance, segmenting the products market, development of a multi-product information system, diversification and simplification of the product line, management of innovation, and role of the brand manager. Aids to decision making such as Bayesian analysis, pert, product concepts and use tests, product screening methods, financial analysis and quantitative applications are considered from the standpoint of the manager. Selected cases and projects. 10-10-94

**MERC6715 - International Marketing.**

*Three credits. Three hours of lecture per week Prerequisites: MARK 6541.*

The theory and practice of international and interregional marketing. The world environments, comparative marketing, and multinational market groups receive attention. International business is integrated with trade

theory. Special attention is given to Latin American problems. 10-10-94

**MERC6716 - Management and Advertising Polices.**

*Three credits. Three hours of lecture per week Prerequisites: MARK 6541.*

Study of the promotional tools used to stimulate the demand of goods, services and ideas. Emphasis will be placed on creating ads, communication media, personal selling, sales promotion, publicity and the global effect of these tools on consumers and organizational goals. 10-10-94

**MERC6717 - Services Marketing.**

*Three credits. Three hours of lecture per week Prerequisites: MARK 6541.*

The competitive challenges occurring and to occur within the service sector of the economy as a result of the decline in government regulation, technological innovations, changes in professional association standards and the like, which alter the ways services are marketed. 10-10-94

**MERC6719 - Graduate Seminar in Marketing.**

*Three credits. Three hours of seminar per week Prerequisites: MARK 6541, 6701. COULD BE REPEAT UP TO NINE*

Discussion of strategic issues that affects the managing of the marketing process both in terms of efficiency and effectiveness. The development of new paradigm is the expected result of such discussions. Variable content related to the subject matter at the time of offering the seminar. The student can repeat the course, if the topics presented are different.

**MERC6742 - Seminar on Research Project I.**

*Two credits. Two hours of lecture per week Prerequisites: TWENTY FOUR*

Seminar on research techniques in which the student, under the supervision of a professor, will choose a subject for his/her research project, prepare a proposal and an outline of the same and will begin research work. 10-10-94

**MERC6743 - Seminar on Research Project II.**

*Two credits. Two hours of lecture per week Prerequisites: MARK 6742.*

The students will carry out a research project in his/her area of interest (marketing) under the supervision of a professor, who will be his/her project director, and submit it to him in writing in final form to be presented to the faculty. 10-10-94

**REHU6705 - Human Resources Management.**

*Three credits. Three hours of lecture per week.*

Comprehensive introduction to core issues in the management of human resources in various types of organizations. The course will examine important elements of the discipline, enabling the student to recognize critical issues, understand the relationship of the function to the success of the organization, and address the various issues involved. Special emphasis is given to human resources planning job analysis, job design, recruitment and selection, performance and career management, training and development, compensation and benefits, and employee relations to the job. Since February 2018 this course can be offered as a hybrid course.

**REHU6706 - Administration Of Compensation And Rewards Systems.**

*Three credits. Prerequisites: REHU6705*

Discussion of compensation and rewards theories in the organizations. Emphasizes the process of design and the implementation of the compensation systems. Also, different topics, such as the evaluation for the appointment, the design of wage polls and wage structures, the programs of wage increments, benefit

programs, the compensation to the managerial group, payment for workmanship, and the laws that affect the system of compensation, will be studied, among others.

### **REHU6715 - Contemporary Topics Seminars In Human Resources Management.**

*Three credits. Three hours of lecture per week.*

Study of contemporary themes of human resources management of greater significance. Discussion of themes as: force of the multicultural work, compensation by dexterities, corporate politics on the use of controlled substances in the work and design of the work in the new organizations as the virtual organization.

### **SEGU6701 - General Insurance.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO GRADUATE SCHOOL OR PERMISSION OF THE INSTRUCTOR.*

Study of the problems of risk, its social and economic implications and the various techniques that may be used in its treatment, with emphasis on the insurance technique. The fundamental principles of life, property, and liability insurance are discussed with emphasis on the functional aspects of the commercial insurer and the problems of the insurance industry. A brief introduction to social insurance is also included. 10-10-94

### **SEGU6705 - Life Insurance.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION OR PERMISSION OF THE INSTRUCTOR.*

Study of life and disability insurance techniques, legal and social considerations related with insurance, life insurance contracts, annuities, disability insurance and their various uses, basic principles for determination of premium rates, reserves and benefits, operational characteristics of the various kinds of underwriters. 10-10-94

## **SCHOOL OF ARCHITECTURE**

### **ARQU6145 - Architecture Research Techniques.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM.*

Introduction to the theory and practice of the research process emphasizing the principles, methods and techniques utilized in formal architectural research. Final course work consists of the student's thesis research proposal. Course offered face-to-face, hybrid and online.

### **ARQU6146 - Research Methods and Techniques In Architecture.**

*Two credits.*

The course exposes the students to the fundamental concepts and research methods for its application to the field of architecture. The course, through practical exercises, assists students to develop skills and competences in research techniques to learn to define a problem, establish a theoretical reflection and define research methods, while selecting and using tools that enable them to rigorously develop research, based on data collection and analysis. The students are exposed to guidelines on basic writing and style, to the correct use of images, and to the use of available bibliographic resources, through the search in local and international databases. In addition, they are exposed to support workshops offered by the staff and technical resources of the library, while learning and understanding the ethical and legal implications regarding the use of information. Course offered face-to-face, hybrid and online. Effective for January 2021.

### **ARQU6200 - Urban Landscape and Social-ecological Systems.**

*Three credits. Two hours of seminar one hour of independent study per week Prerequisites: ADMISSION TO*

#### *THE GRADUATE PROGRAM.*

The course "urban landscape and socio ecological systems" is oriented to the city's study and its relationship with the territory. Particular emphasis is placed on the environmental and social challenges faced by the city, such as natural disasters, vulnerable communities and loss of biodiversity. The course will provide the basis for understanding, configuring, planning and continuously adapting urban development in sustainable terms with a focus on Latin America and the Caribbean. Criteria will be implanted for the evaluation of urban design concerning urban form, energy efficiency, heat island depletion, sustainable water management, and alternative mobility. The course will present various urban sustainability strategies based on environmental assessment guides, programs and systems. This hybrid course is designed to integrate face-to-face and distance activities.

#### **ARQU6211 - History of Architecture I: The Invention of The Classic.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM.*

The course chronologically explores the origins of western architecture, from prehistory, and ancient civilizations, to the so-called gothic period and the Italian risorgimento, the latter tied in many of these conceptions to the intellectual wealth of the late middle age. Through the discussion of works and texts that exemplify similarities and contrasts between these civilizations in their geographical, political and technological context, the course will promote the criticism of the belief in common roots in western architecture. In addition, it will explore continuities and differences in construction practices of the different periods, regions and cultures to reflect on the successive relationships that our culture has been establishing with its past especially the idea of an architectural heritage called "classical", common to west. Course offered face-to-face, hybrid and online. Effective for January 2021.

#### **ARQU6212 - History of Architecture: II Genealogy of Modernity.**

*Three credits. Three hours of lecture per week*

The course exposes the students in a panoramic way to the transformations of the practice, and the architectural and urban theories in Europe and America from the crisis of the aesthetic canons of the renaissance to the revivals and modernisms of the late nineteenth century. On the one hand, will familiarize the students with the thinkers, the context and the architectural works that laid the groundwork for modern architecture's ideals. On the other, critical inquiry will be promoted on the set of treaties, historic texts and buildings that played a decisive role in the definition of contemporary architecture in both sides of the Atlantic. Face to face hybrid and online course.

#### **ARQU6213 - History of Architecture III: Contemporary Architecture and Urbanism.**

*Three credits. Prerequisites: ARQU 6212.*

The course exposes the main answers that the architect's responded to the problems of modernization, industrialization, immigration to the cities, and the political or social conflicts that have affected humanity in the last century. This course covers the first three decades of European avant-gardes of the 20th century, mid and post second world war architecture and urban views, which led to the debates on cities until the present. At the same time, students will have a critical view of the transfers and reinterpretations of global architectural knowledge in the emerging nations of Latin America. In addition, they will become familiar with resistances and proposed alternatives to divorce which, frequently, architects of the 20th and 21st centuries have observed with Latin American cultural and identity specificities in relation to the rest of the world. Face-to-face, hybrid and online modalities. Effective August 2021.

#### **ARQU6214 - History of Architecture in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 6213.*

History of architecture in Puerto Rico is a survey course of the architecture developed in Puerto Rico from pre-Colombian to present times. The course offers students fundamentals knowledge about the urban

development of Puerto Rican cities and towns, prevailing tendencies in architectural thought and production, and on the historical development of his profession of architecture in Puerto Rico. The course uses primary sources from archives and libraries and secondary sources as described in the bibliography.

**ARQU6225 - Architectural Theory and Criticism.**

*3 credits. Two hours of lecture and one hour of discussion per week Prerequisites: ARQU 6213.*

The course explores in depth the theory and criticism of architecture, emphasizing intersections with other disciplines. For this, authors, ideas and architectural works will be studied not only from architecture theoretical perspectives, but also from the analysis frameworks that sciences and humanities can bring forth in order to better understand the processes of conceiving and constructing the spaces we inhabit. At the end of the course students will be able to understand the value of defining and interdisciplinary diary to interrogate and explain the built environment. Studying places, buildings and urban spaces from the theoretical frameworks of their authors or the writers who have analyzed them would be a way of encouraging students to establish paths for the analysis of an architectural problem and for the formulation of proposals for their solution. Face to face hybrid and online course.

**ARQU6311 - Advanced Architectural Design.**

*Five credits. Twelve hours of workshop per week Prerequisites: PERMISSION OF THE DEAN.*

Application of the design process and strategies to architectural problems at a complex level of the symbolic, spatial, technical, and urban aspects of these problems. Consideration of the impact of large complex projects upon the city. (c) course offered face-to-face, hybrid and online. Effective January 2021 10-10-94

**ARQU6312 - Advanced Architectural Design II.**

*Five credits. Twelve hours of workshop per week Prerequisites: ARCH. 6311.*

Detailed development of architectural projects. Emphasis on the development of architectural details and on integrating technical components into resolved architectural proposals. Face to face, hybrid and online course 10-10-94

**ARQU6313 - Thesis in Architectural Design I.**

*Five credits. Individual work with supervision of the director Prerequisites: ARCH 6312,6141.*

Individual work demonstrating the capacity of the student to identify a problem, conduct research, and formulate an architectural design program. The student will work under the supervision of a director. Course offered face-to-face, hybrid and online. Effective for January 2021. 10-10-94

**ARQU6314 - Thesis in Architectural Design II.**

*Five credits. Individual work under the supervision of a director Prerequisites: ARCH 6133.*

Final student work in the area of architectural design. Expression of the student's personal concerns and values. The course offers students the opportunity to develop an innovative concept that will expand their potential and widen their understanding of architecture. Course offered face-to-face, hybrid and online. Effective for January 2021. 10-10-94

**ARQU6321 - Structures V And Vi for Architects.**

*Three credits. Two hours of lecture and two hours of laboratory work per week Prerequisites: ARCH. 4032.*

Methods of analysis of indeterminate structures. Moment distribution. Application of theory to design problems. More detailed study of the structural systems covered in previous courses. Critical study of present codes for concrete and steel structures. 10-10-94

**ARQU6322 - Structures V And Vi for Architects.**

*Three credits. Prerequisites: ARQU 4032. ANALYSIS OF INDETERMINATE STRUCTURES. MOMENT*

Methods of analysis of indeterminate structures. Moment distribution. Application of theory to design problems. More detailed study of the structural systems covered in previous courses. Critical study of present codes for concrete and steel structures. 10-10-94

### **ARQU6324 - Applied Structural Design.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU6323.ADMISSION TO THE GRADUATED PROGRAM. Corequisites: ARQU6337*

Course focused on structural design for architects. Architectural precedent, which integrate structural systems to their architecture, will be studied. In such cases, the structure will not be restricted only to its visual materialization, aesthetic, and tectonic, and significance. It introduces students to structural analysis using structural modeling in three dimensions (etabs software), study of the aspects related to the mechanical properties of the material, advantages and disadvantages of its application, analysis and design of different types of loads, design methods and their application in real construction projects. Emphasize in the management of technical vocabulary, as well as the application of minimum requirements from building codes. Design of structural components of student's final project, governed by structural norms and calculations to support the proposed solution, including material, loads, form and dimensions, as well as the construction process.

### **ARQU6325 - Structures I: Static, Equilibrium and Analysis Of Statically Determinate Structures.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM.*

The course prepares students with basic knowledge for the analysis and conceptualization of simple structures. Studies the principles of static and force decomposition; vectorial operations; non-concurrent and concurrent force systems; static equilibrium laws (in particles and rigid structures, both in 2d and 3d); types of supports and reactions; the use and generation of free body diagrams in the analysis of structures; analysis of force distribution, centroids and gravity centers; and calculation of reactions in simple structures and analysis of truss-type structures. Includes a final special project that explores different structural systems and the functionally in transferring loads. This course will be offered under the face-to-face, hybrid and online modality. Effective for January 2021.

### **ARQU6326 - Structures II: Resistance of Materials and Structural Behavior.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 6325.*

The course is oriented towards the analysis structures such as beams and trusses. The analysis of trusses is studied by the methods of joints and sections; the effects of external loads on simple beams are explored in terms of the state of internal forces by generating the diagrams of axial loads, and shear and bending moments. The sectional properties of flat areas are studied (area, centroids, inertia moments, turning radius, etc.). Students learn to calculate the different types of force and stress on any point of the structure. The double integration method is investigated for the calculation of deformation in beams. Lastly, column stability and how to quantify structural capacity is studied. The final project is related to one of the main topics covered in the course. Face to face, hybrid and online course.

### **ARQU6327 - Structures III: Analysis of Indeterminate Structures Under Gravitational Loads, Wind and Earthquake.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 6326.*

This course is oriented towards the analysis of simple structures such as beams and trusses. The course will provide basic knowledge for students to analyze indeterminate structures (continuous beams and frames) using exact methods (method of moment distribution) and also using approximate procedures (methods for gravity and lateral loads analysis). The course elaborates on the structural risk threats caused by hurricanes and earthquakes, emphasizing the quantification of side loads using the current code (asce-7-2010). The student receives scientific technical information related to the seismic vulnerability of Puerto Rico

(earthquakes and tsunamis) and the recurring threats of hurricanes in our environment. At the end of the course the student prepares a final project that incorporates wind loads and earthquake assessment of a real building structure. Face-to-face, hybrid and online modalities. Effective August 2021.

### **ARQU6331 - Architectural Design I: Fundamentals of Design.**

*Five credits. Twelve hours of workshop per week Prerequisites: ADMISSION TO THE GRADUATED PROGRAM.* Introductory course to fundamental topics of the design process. The student will understand that the act of design is an orchestrated process of decision making to simultaneously solve multiple problems. Will become familiar with architectural vocabulary, principles of spatial arrangement, formal and spatial aspects of architectural composition such as: point/line- line/plane-plane/volume-volume/space: positive/negative space: color, light/ shadow and shape management. Will recognize the role of diagramming as a basis to propose a solution (strategy). Will develop representation skills to produce free hand technical drawings, as well as analytical, conceptual or representative models of projects. The topic of inhabitant will be introduced as a manifestation of design. Will develop skills to conceptualize, organize the program and understand the concepts of form and function, analysis and synthesis, while handling context variables. Course offered face-to-face, hybrid and online. Effective January 2021.

### **ARQU6332 - Architectural Design II: Elemental Design.**

*Five credits. Twelve hours of workshop per week Prerequisites: ARQU 6331.* The course introduces the student to the multiple dimensions of the design process: composition, sequence, urban context and climate conditions. It deals with issues of typology, programming, as well as considerations of sustainability and tectonics. Integrates strategies to work with the variables in the design process looking for coherent answers to simultaneous problems. The principles of composition, the architectural elements and spatial characteristics that define the architectural object are studied. The student is exposed to mathematical-geometric concepts such as scale, proportion, perspective and shadow projection. It sharpens two-dimensional representation skills: orthogonal drawings, perspectives and other graphic resources to develop three-dimensional visualization as a design tool. The introduction to digital representation media will commence. The study of precedents in architecture will allow the students to familiarize with concrete experiences. Face to face hybrid and online course.

### **ARQU6333 - Architectural Design III: Intermediate Design.**

*Five credits. Twelve hours of workshop per week Prerequisites: ARQU 6332.* The course exposes the student to the integration of architectural design variables and the development of approaches to face the design process from the object to the urban scale. Examines the form-function relationships for the insertion in the urban context, the spatial sequence management, accommodation, use and, expression of the character of the construction. Develops the project at the level of constructive details that show dexterity in the management of construction systems, including aspects of building sustainability. Include the requirements of current building codes and regulations. Include the design research component with the objective to recognize the relevance of precedents, site conditions and their occupants. It will generate a programmatic diary. The student will continue to develop their skills on architectural representation, following the graphic standards recognized by the profession, using digital tools for architectural representation. Face-to-face, hybrid and online modalities. Effective August 2021.

### **ARQU6334 - Advanced Architectural Design IV: Architecture as An Urban Component.**

*Five credits. Twelve hours of workshop per week Prerequisites: ARQU 6333.* The workshop exposes the student to the understanding of the relationship that mediates between the building as a constituent of an urban enclave and the city. It focuses on the understanding and exploration of the city as a collective and complex body made up of its inhabitants, social rituals, operational uses, ecology, economy and adaptation to the physical context: geographical/topographic/climatic. The student will face



the design of the building as a multifunctional urban component and the way in which it is coordinated to establish a sense of cohesion and coherence in the city. It will present various urban sustainability strategies: the concept of recycling and re-use of buildings, energy efficiency, the reduction of heat islands, sustainable water management, alternative mobility and others, based on guides, programs and environmental evaluations systems with greater acceptance in the contemporary industry of design and construction of the built environment. Face-to-face, hybrid and online modalities. Effective August 2021.

### **ARQU6335 - Advanced Architectural Design: Building Anatomy.**

*Five credits. Twelve hours of workshop per week Prerequisites: ARQU 6333.*

The workshop proposes a synthesis process, applied to a medium-scale architectural project that integrates symbolic, spatial, structural and technical aspects with the sensitivity imposed by integration in the urban context. Focuses both on creativity and technical rigor to concretize the proposed idea. The student develops a design proposal based on the formulation of a problem that arises from the urban enclave and the program of uses. Develops the building considering requirements and encumbrances that impose the issues of technical and regulatory order so that the building becomes a habitable reality, including the aspects so that it is technologically sustainable and resilient. Creates drawings at different scales (location plans, cuts and construction details). The final project must demonstrate the integration of the technologies of the associate disciplines: civil, structural, plumbing, electricity, fire extinguishing, mechanical ventilation and information technology.

### **ARQU6336 - Architectural Design Vi: Advanced Design Laboratory.**

*Five credits. Twelve hours of workshop per week Prerequisites: ARQU 6335.*

Course integrated to the research seminar course. It has an interdisciplinary and participatory connection for the broad study of the city. Through a questioning of the variables that affect the city, the critical capacity and the social responsibility of the student are encouraged before the demands of a society with wide and diverse problems. Conditions at different scales, linked to the territory, the city, the block and the building: flows, functions, forms of occupation and ability, services, the socio-economic/cultural reality, layers of history, operational and regulatory requirements will give way to research that recognizes the connections of disconnections of the city. The student can work individually or as a group to propose design solutions that respond to improve the city through architecture. Concludes with the preliminary proposal to be further developed in the end of career project or the individual thesis project. Course offered face-to-face, hybrid and online. Effective for January 2021.

### **ARQU6337 - Architectural Design VII: Integrated End of Career Project/thesis.**

*Five credits. Twelve hours of workshop per week Prerequisites: ARQU 6336. Corequisites: ARQU 6324, ARQU 6432.*

The course is the final path of the master's degree. The student must develop his architectural project in an integrated manner to expose the set of knowledge and skills acquired during the student career. Initiates with the theoretical framework, analysis and previous studies in aspects related to the territory, the program and the urban spatial solutions made in the previous course. It synthesizes, from an integral and complex perspective of architecture, the different humanistic and technical disciplines that intervene in the drafting of a professional architecture project. The operative sequences are defined, without losing the conceptual argument of the initial design, as well as the environmental control systems (hvac/electric) and the tectonics of the building, through the design of constructive details. The final product is of substantial complexity, developed with poetry, depth and definition to demonstrate that the student has the merits to be considered a colleague architect. Face to face hybrid and online course.

### **ARQU6341 - Theory of Architecture.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 4005, 4006, 4007, 4008.*

Exploration towards a definition of architecture and the architect and his mission by means of a study of the literature in the field, lectures, projects and open discussion. The architect as humanist. Architecture as a vehicle of social and cultural development. Interdisciplinary relations and communication. (c) 10-10-94

**ARQU6342 - Theory of Architecture Three Hours of Lecture Per Week. Prerequisites: Arch 4005, 4006, 4007, 4007.**

*4407. credits.*

Exploration towards a definition of architecture and the architect and his mission by means of a study of the literature in the field, lecture, projects and open discussion. The architect as humanist. Architecture as a vehicle of social and cultural development. Interdisciplinary relations and communication. (c) 10-10-94

**ARQU6343 - Advanced Seminar of History of Architecture.**

*Three credits. Three hours of lecture per week*

Research into the theory, practice and criticism of architecture as a historical-cultural phenomenon, with emphasis on formal analysis, the study of materials, techniques and methods of construction, urban planning, restoration and preservation of monuments, etc. 10-10-94

**ARQU6344 - Advanced Seminar of History of Architecture.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3051-3052.*

Research into the theory, practice and criticism of architecture as a historical-cultural phenomenon, with emphasis on formal analysis, the study of materials, techniques and methods of construction, urban planning, restoration and preservation of monuments, etc. 10-10-94

**ARQU6347 - Advanced Seminar in Theory of Architecture: Environmental Design and The Natural Environment.**

*Three credits. Three hours of seminar per week Prerequisites: FIFTH OR SIXTH YEAR STUDENTS.*

The application of the fundamentals of ecology and environmental characteristics planning to the work of the architect. Architecture as an ecosystem built in harmony with natural ecosystems. Readings, lectures, graphics, and written presentations and discussions. 10-10-94

**ARQU6348 - Advanced Seminar in Theory of Architecture: Analysis of The Natural and Built Environment in Puerto Rico Three Hours of Lecture Per Week. Prerequisites: Arch 6347 Or Instructor's.**

*Permission. credits.*

Advanced seminar in theory of architecture: analysis of the natural and built environment in Puerto Rico. Ecological basis for architectural design and physical planning. Readings, lectures, field trips, discussions, preparation of matrices, maps and other documents which will have practical application. 10-10-94

**ARQU6361 - Building Anatomy.**

*3 credits. Two hours of lecture and two of laboratory per week Prerequisites: ARCH 4075 OR ITS EQUIVALENT.*

Further analysis of advanced techniques of environmental control including hygiene (water supply and drainage), and acoustics. Introduction to building anatomy (elements of construction and their interrelationships. Structure, skin, finishes and systems) and working drawings. Introduction to large scale environmental analysis.

**ARQU6362 - Architectural Technology V And VI.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: ARCH 4075 OR ITS EQUIVALENT.*

Further analysis of advanced techniques of environmental control including hygiene (water supply and

drainage), and acoustics. Introduction to building anatomy (elements of construction and their interrelationships. Structure, skin, finishes and systems) and working drawings. Introduction to large scale environmental analysis. (c) 10-10-94

**ARQU6371 - Principles of Planning I.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 4011-4012 OR PERMISSION OF THE DEAN OF THE SCHOOL.*

Theories of urban growth and structure: historical aspects of western and Latin American planning and urban settlement patterns; the interaction of social, economic and spatial factors in the process of urban change and the role of the environmental design profession in urban development. Lectures, individual and group problems, field trips. 10-10-94

**ARQU6372 - Principles of Planning II.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 6371.*

Planning theory and planning and development control processes: urban planning as a part of social decision-making; methods of problem identification, analysis and solution; urban development policy formulation and the implementation of plans through governmental and private initiative and regulations. The influence of the planning and design process on urban form. Lectures, individual and group problems, and field trips. 10-10-94

**ARQU6373 - Advanced Seminar on Housing and Community.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS. CONSENT OF THE PROFESSOR.*

A study of the housing problem and the urban settlements. The development of information through research projects as a basis for solutions and alternatives. 10-10-94

**ARQU6374 - Advanced Seminar on Housing and Community.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS. CONSENT OF THE PROFESSOR.*

A study of the housing problem and the urban settlements. The development of information through research projects as a basis for solutions and alternatives. 10-10-94

**ARQU6375 - Advanced Seminar on Architecture in Public Health.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS OR AUTHORIZATION OF THE PROFESSOR.*

Advanced seminar on the architecture in public health in the tropics and developing countries. 10-10-94

**ARQU6376 - Advanced Seminar on Architecture in Public Health.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS OR AUTHORIZATION OF THE PROFESSOR.*

Advanced seminar on the architecture in public health in the tropics and developing countries. 10-10-94

**ARQU6380 - Legal Aspects of The Architectural Professional Practice.**

*Three credits. Three hours of lecture per week Prerequisites: FOR GRADUATE STUDENTS. CONSENT OF THE PROFESSOR.*

An introduction to the legal and reglementary provisions that affect the professional practice of architecture. The student will learn general principles of contracts obligations, real estate law and contractual and extracontractual responsibility. 10-10-94

**ARQU6381 - Summer Practice Three Hours: Forty Hours of Practice Work Per Week.**

**Prerequisites: Arch 6311, 4011, or Authorization of the professor.**

*Dean. credits.*

Practical experience in a professional office under the supervision of a licensed architect having no less than five years of professional experience. Aimed to acquaint the student with current practices in the field, make him aware of the problems facing architects and provide an opportunity for applying knowledge acquired during his academic formation. 10-10-94

**ARQU6382 - Summer Practice.**

*Three credits. Forty hours of practice work per week Prerequisites: ARCH 6311, 4011 OR AUTHORIZATION OF THE DEAN.*

Practical experience in a professional office under the supervision of a licensed architect having no less than five years of professional experience. Aimed to acquaint the student with current practices in the field, make him aware of the problems facing architects and provide an opportunity for applying knowledge acquired during his academic formation. 10-10-94

**ARQU6383 - Professional Practice: Design Project.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM.*

Introduction to concepts, ethical processes, administrative and regulatory aspects of the professional practice of architecture. Presentation of the considerations of the legal and regulatory procedures that guide the preparation of construction related documents that are the architect's responsibility as a professional services provider. Discussion of the responsibilities of an architect in the certification of construction documents. Review of the considerations, duties and responsibilities of the architect in a professional services contract. Course offered face-to-face, hybrid and online. Effective for January 2021.

**ARQU6384 - Professional Practice: Design Firm.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM*

The course defines the professional practice of architecture and analyzes the social, economic, ethical and legal contexts within which the professional practice of architecture must insert itself. Basic economic and financial management concepts are discussed that influence and determine the organization of a design firm and its range of professional services and responsibilities. The course also covers issues pertaining to the different stages in the development of an architectural project, including the establishment of a designer-client relationship, the design process, the production of construction documents, and the supervision of the construction process of a project. Course offered face-to-face, hybrid and online. Effective for January 2021.

**ARQU6385 - Financial Aspects of Construction.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DEAN.*

Course in professional practice: financial aspects of construction and project development. Land acquisition and development financing, construction costs, cost estimating techniques, cost control, long-range cost, cost and benefits, etc. Course offered face-to-face, hybrid and online. Effective for January 2021. 10-10-94

**ARQU6387 - Advanced Seminar on The Role of The Architect Working in Government.**

*Three credits. Three hours of lecture per week.*

Advanced seminar for the study and research on the role of the architect working in government. Search for methods and systems through which both the architect as an individual, and the profession as a whole, can contribute to the public policy formulation process and its implications on governmental services. A critical study of decisional processes at the federal, state and local levels of government. Lectures, readings, field trips to government agencies, graphic and written presentations, discussions. Enrollment is limited to twelve (12) to fifteen (15) students from the graduate level. 10-10-94

**ARQU6388 - Advanced Seminar on The Architect Working in Government: Projects.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 6387.*

Advanced seminar on the search for solutions to problems requiring public policy change or formulation prior to architectural design or physical planning. Lectures, readings, conferences, discussions, and the preparation of proposals to be submitted to the appropriate governmental authorities, as a result of the course. 10-10-94

**ARQU6389 - Advanced Seminar on Construction Documents.**

*Three credits. Three hours of lecture, discussion, views and practice work Prerequisites: FOR GRADUATE STUDENTS. PERMISSION OF THE PROFESSOR.*

Advanced seminar on the organization, production and administration of construction documents in current practice. Emphasis on the preparation of sketches and drawings to be used at the construction site. Graphic, technical, economic and legal aspects of construction documents will be considered. 10-10-94

**ARQU6425 - Professional Experience Internship.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 6334. ADMISSION TO THE GRADUATE PROGRAM (FOR STUDENTS WHO COME FROM ENVIRONMENTAL DESIGN BACHELOR OR EQUIVALENT BACHELOR).*

The professional experience internship (ixp in Spanish) course exposes the student to professional experience, working in a firm, organization or agency to perform tasks relevant to architecture. The course discusses the requirements for the path to licensure as defined by the local state department and ncarb; the support services offered by the college of architects and landscape architects of Puerto Rico (caappr in Spanish); and general aspects of the professional practice of architecture from multiple perspectives. The internship has three components: 1. Professional experience internship; 2. Community service; 3. Academic work. This course may be offered under the face-to-face, hybrid and online modalities.

**ARQU6431 - Research Seminar.**

*Two credits. Two hours of lecture per week Prerequisites: ARQU 6145 Corequisites: ARQU 6336.*

The course exposes the student to the use of appropriate research methodologies for advanced studies, particularly those related to the discipline of architecture. In this, the skills and competences in research are applied so that the student can define a problem, make a theoretical reflection and design the research method pertinent to the problem, selecting and using tools that allow him to rigorously develop the research, based on bibliographic resources search, as well as the collection, analysis and evaluation of data. The course is closely related to the research laboratory in design course to contribute to the development of methodologies that allow to scientifically study the contexts of architectural intervention. In addition, the student is exposed to workshops and support seminars, conducted by external resources, to help in the understanding of concrete and practical aspects of architecture with those of theory. Course offered face-to-face, hybrid and online. Effective for January 2021.

**ARQU6432 - Publication Seminar.**

*One credits. One hour of seminar per week Prerequisites: ARQU 6431. Corequisites: ARQU 6337.*

This course consists of a practical workshop to learn how to design the written and graphic document required as the final year project (pifc). Throughout the course, the student designs the picf document, applying the writing and graphic editing skills and knowledge discussed in class. In addition, the course teaches and practices oral presentation skills for architectural projects. This course relates to research seminar and supports the course for the design of end of career project or thesis. Students are exposed to support workshops and seminars, offered by invited experts. Face to face hybrid and online course.

**ARQU6442 - Advanced Seminar on Architectural Expressions of Liturgical Form In Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 6441.*

Advanced seminar for the study of architectural expressions of liturgical form on historic and contemporary examples of architecture in Puerto Rico. Lectures, readings, graphic and written, demonstrations, search and discussions. 10-10-94

**ARQU6443 - Advanced Seminar on Historic Preservation in Architecture.**

*Three credits. Three hours of lectures per week.*

Advanced seminar on the theory, methodology, and practice of historic preservation in architecture. An introduction of the architectural student to the technical aspects of archaeology and anthropology. An exposure to the principles which determine the historical/cultural value of a structure or building, vis-a-vis, the market value. Search for mechanisms in the community for the preservation of such structure. Lectures, readings, graphic and written presentations, discussions. Enrollment is to be limited from twelve (12) to fifteen (15) students from the graduate level. 10-10-94

**ARQU6444 - Advanced Seminar on Historic Preservation in Architecture in Puerto Rico Three Hours. Three Hours of Lecture Per Week. Prerequisites: Arch.**

*6443. credits.*

Advanced seminar on the theory, methodology, and practical application of historic preservation in Puerto Rico with emphasis on planning and architectural design. An introduction for the architectural student to the research and discipline of study of existing structures on the island that need preservation. Lectures, readings, graphic and written presentations, research and discussions. 10-10-94

**ARQU6448 - Advanced Research Seminar on Architecture in XX Century Puerto Rico:1898-1942.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 4005, 4006, 4007, 4008.*

Advanced seminar on the theory, criticism and analysis of the architecture developed in Puerto Rico from 1898-1942. The student is confronted with the socio-political conditions of this period and how they affect the architectural production. 10-10-94

**ARQU6449 - Advanced Research Seminar on Architecture in XX Century Puerto Rico: 1942 To Present.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM.*

Advanced seminar on the theory, criticism and analysis of the architecture developed in pr from 1942 to present. The student is confronted with the socio-political conditions of this period and how they affect the architectural production. 10-10-94

**ARQU6511 - Technology I: Design of Bioclimatic Architecture.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISION AL PROGRAMA GRADUADO.*

The course incorporates concepts of the physical and natural environment, and the strategic application of passive methods and techniques in architectural design. The bioclimatic principles and characteristic of the materials used in the vernacular architecture of different climatic regions are analyzed. Examples of alternate systems for the production of sustainable energy appropriate and integrated to the architectural work are discussed: heliostats, photovoltaics systems, thermic solar collectors, cogeneration systems and aerolic systems. The course provokes discussion of the characteristics of the diverse Puerto Rico, tropical and other region's climate components and controls. Students will become familiar with diverse thermic human interchange methods and adaptability through the use of thermic indexes and bioclimatic and psychometric cards. Course offered face-to-face, hybrid and online. Effective for January 2021.

**ARQU6512 - Technology II: Site Design; Materials and Construction Techniques.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 6511.*

The course focuses on identifying the physical, biological and cultural attributes that affect the selection, analysis, and site design for the construction location. The properties of various materials and construction techniques are discussed. Topographic, geologic, hydrologic, climatic, ecological, and different soil characteristics and the problems associated with soils are analyzed. The regulations and building codes are exposed, as well as the legal considerations that regulate compliance and the decision making for the selection of the site. The requirements of spaces, circulation systems, parking and guides are discussed according to the ADA law. The methods used for the movement and leveling of the terrain are studied according to vehicular and pedestrian circulation systems, and the best location of the building. Select the most efficient methods for receiving, managing, and disposing of ground and rooftop rainwater. Face to face hybrid and online course.

### **ARQU6513 - Technology III: Building Systems.**

*Three credits. Two hours of lecture and two hours of discussion per week Prerequisites: ARQU 6512.*

The course promotes the discussion and study of the mechanical systems that are part of the buildings' design. Focuses on the way of integrating the mechanical systems in the constitution of a building and its possibilities affecting the shape, texture and character of the built environment. The student will be provided with a general understanding regarding the theory and practice of mechanical systems in terms of environmental control, the different systems of air conditioning, climatology, plumbing, fire safety, and mechanical circulation systems and their application to the architectural design. All the above will be discussed in accordance with the requirements established by the applicable regulations for commercial and residential projects, emphasizing in vernacular, traditional and contemporary solutions. Face-to-face, hybrid and online modalities. Effective August 2021.

### **ARQU6514 - Technology IV: Energy Systems.**

*Three credits. Three hours of lecture per week Prerequisites: ARQU 6513.*

The course exposes the student to the study of electrical power systems and specific issues of environmental control in buildings: power electrical systems, communication systems, artificial lighting, and acoustic systems. Explores the current context of energetic including the basic knowledge of renewable energy efficiency. The control of light and sound is included as an indispensable topic in the architect's technical training. The student will be able to apply these principles and the basic development of these systems in the architectural design workshop. Course offered face-to-face, hybrid and online. Effective for January 2021.

### **ARQU6531 - Acoustics for Architecture.**

*Three credits. Three hours of lecture per week Prerequisites: ARCH 3111, 3081-3082 OR ITS EQUIVALENTS.*  
Architectural and environmental acoustics. Noise control. 10-10-94

### **ARQU6612 - Landscape Architecture.**

*Three credits. Three hours of seminar per week.*

This course introduces students with the theories and design strategies that dominate in the landscape architecture profession. The history and theoretical concepts that influence the discipline, and its applied principles, through which our environment is shaped and defines will be explored. Students will learn to identify socio environmental issues and landscape architecture interventions to address and solve issues with a focus on environmental conservation. This course will be offered under the face-to-face, hybrid and online modalities.

### **ARQU6613 - Technology III: Building Systems.**

*Three credits. Three hours of conference per week Prerequisites: ARQU 6512.*

The course promotes the discussion and study of the mechanical systems that are part of the buildings'

design. Focuses on the way of integrating the mechanical systems in the constitution of a building and its possibilities affecting the shape, texture and character of the built environment. The student will be provided with a general understanding regarding the theory and practice of mechanical systems in terms of environmental control, the different systems of air conditioning, climatology, plumbing, fire safety and mechanical circulation systems and their application to the architectural design. All the above will be discussed in accordance with the requirements established by the applicable regulations for commercial and residential projects emphasizing in vernacular, traditional and contemporary solutions.

**ARQU6614 - Heritage Conservation of Architecture: History and Theory of Conservation Heritage Conservation.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

This course provides the student with and understanding of the history, theories, methodologies and practice of historical preservation. It is based on historical conservation as the result of an evolutionary and changing process, reflecting an individual and a community. Philosophical, practical and legal issues will be discussed, among others. This course will be offered under the face-to-face, hybrid and online.

**ARQU6615 - Architectural Representation and Visualization.**

*Three credits. One hour of lecture and two hours of workshop per week.*

Introductory course to techniques and tools for architectural representation and visualization with a focus on digital media. This course aims to promote in the student the necessary skills for the visualization and representation of the architectural space. The skills acquired in this course will help the student to represent their ideas and projects in design course. This will be offered under the face-to-face, hybrid and online modalities.

**ARQU6895 - Continued.**

*Thesis credits.*

Continuation of the thesis project, so that the student be allowed to use the library and the university facilities during the semester and in the summer session. 10-10-94

**ARQU6991 - Specialized Study.**

*One to 12 credits. Individual work with consent of the professor Prerequisites: FOR GRADUATE STUDENTS, AUTHORIZATION OF THE PROFESSOR.*

Designed to give the student an opportunity for specialized graduate study in an area of his particular interest as related to environmental design. Topics, readings and research methods to be arranged by agreement between the student and the professor. Students may register for one to six credits per semester depending upon the nature of the study and the time allotted to it. Areas of study accepted shall be complementary to those covered in other courses, avoiding unnecessary duplication. The nature of assignments may include experimental or research projects, independent work. Field experience cooperative projects, and the like, in order to maximize curricular flexibility and accommodate relevant student interests and needs. Enrollment is limited to graduate students with previous approval of their area of specialized study. In order to complete course requirements, the student must submit two copies of the comprehensive report on his work and conclusions. (Can be repeated up to twelve credits. Course face-to-face, hybrid and online. Effective January 2021.

**ARQU6992 - Specialized Study.**

*One to 12 credits. Individual work with consent of the professor Prerequisites: FOR GRADUATE STUDENT, AN OPPORTUNITY FOR SPECIALIZED GRADUATE.*

Designed to give the student an opportunity for specialized graduate study in an area of his particular interest as related to environmental design. Topics, readings and research methods to be arranged by



agreement between the student and the professor. Students may register for one to six credits per semester depending upon the nature of the study and the time allotted to it. Areas of study accepted shall be complementary to those covered in other courses, avoiding unnecessary duplication. The nature of assignments may include experimental or research projects, independent work, field experience, cooperative projects, and the like, in order to maximize curricular flexibility and accommodate relevant student interests and needs. Enrollment is limited to graduate students with previous approval of their area of specialized study. In order to complete course requirements, the student must submit two copies of a comprehensive report on his work and conclusions. This course can be taken up to twelve times under different themes.

## **COLLEGE OF NATURAL SCIENCES**

### **BIOI6991 - Independent Research in Biology.**

*One to Three credits. Prerequisites: CONSENT OF THE INSTRUCTOR.*

Independent research problem not associated with thesis or doctoral dissertation, in areas covering the interests and needs of the student. This course substitutes biol6855. January 2006

### **BIOI6995 - Integrate Studies in Biology: Intensive Course Experiences.**

*Two to Eight credits. Prerequisites: GRADUATE REGULAR STUDENTS IN GOOD STANDING. APPROVAL OF THE SPONSOR OF THE STUDENT AND OF THE COORDINATOR OF THE GRADUATE PROGRAM IN BIOLOGY.*

To provide credit for graduate students enrolled in accredited seminars, workshops and courses offered by other academic institutions and international organizations such as those of the organization for tropical studies. Opportunities may include a spectrum of subjects in biology offered at local, national and international venues. Courses and workshops can be in classroom laboratory or field types, during regular hours or in a total immersion style.

### **BIOI6997 - Thesis Research.**

*One to Six credits. Prerequisites: PERMISSION OF THE ADVISOR.*

Research for master's thesis. This course substitutes biol8990. January 2006

### **BIOI6998 - Continuation Thesis Research.**

*No credits. Prerequisites: TO HAVE COMPLETED ALL*

Continuation of master's thesis research. This course substitutes biol6896. January 2006

### **BIOI8991 - Advanced Research.**

*Three-six credits. Research*

Research for doctoral students in previous admission to candidacy.

### **BIOL6001 - Biology Colloquium I.**

*One credits. One hour of lecture per week Prerequisites: FOR GRADUATE STUDENTS IN THE BIOLOGY GRADUATE PROGRAM.*

Seminar program of the department of biology for the first semester of the academic year. Weekly seminars cover any topics related to biology presented by renown local, national and international scientists.

### **BIOL6002 - Colloquium Biology II.**

*One credits. One hour of lecture per week Prerequisites: FOR STUDENTS GRADUATE IN THE BIOLOGY GRADUATE PROGRAM.*

Seminar program of the department of biology for the second semester of the academic year. Weekly seminars cover any topics related to biology presented by renown local, national and international scientists. This course may be repeated to a maximum of two credits.

**BIOL6006 - Symbiosis: from Organelle to Ecosystem.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: HAVE TAKEN TWO OF THE FOLLOWING COURSES*

This is a course that will cover novel concepts on the dynamics of microbial-host interactions and recent literature in the field of microbiomes. Students will get updated information on recent advances in this novel field of study and will acquire skills on oral presentations and written reports.

**BIOL6007 - Reproductive Process in Plants.**

*Three credits. Three hours of lecture and three hours of laboratory work per week Prerequisites: BIOL 3017, BIOL 3410 AND/OR PERMISSION OF THE INSTRUCTOR.*

An analysis of the ecological, systematic and evolutionary consequences of reproduction in flowering plants. Topics include breeding systems, gametophyte development, pollen-stigma interactions, pollination syndrome, pollen flow, reproductive isolation, optimal theory, competition, coevolution, limitations to fruit and seed production, seed dispersal and flowering strategies, angiosperm speciation. 10-10-94

**BIOL6010 - Microbiomes.**

*Three credits.*

This is a course that will cover novel concepts on the dynamics of microbial-host interactions and recent literature in the field of microbiomes. Students will get updated information on recent advances in this novel field of study and will acquire skills on oral presentations and written reports.

**BIOL6035 - Neuropharmacology.**

*Three credits. Prerequisites: biol 3101-3102, biol5548 or its equivalent.*

In this introductory course one of its main goals is to expose students to the basic concepts of neuropharmacology. During the course, each student will have the opportunity to describe and understand how neurochemical transmission within the nervous system works. It is also expected that the student will be able to develop critical analysis of scientific articles related to the topics discussed in the course. Furthermore, the student will learn about behavioral neuropharmacological techniques and molecular biology protocols that presently are utilized to study functional neuropharmacology within the nervous system.

**BIOL6040 - Biogeography.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: CONSENT OF THE INSTRUCTOR.*

A study of the principles governing the distribution of organisms. Examples of the Caribbean area are used. 10-10-94

**BIOL6100 - Seminar and Systematics.**

*Two credits. Two hours of lecture and discussion per week Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Basic principles of systematic biology. 10-10-94

**BIOL6117 - Physiological Plant Ecology.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: BIOL 3017, 4560 AND/OR PERMISSION OF THE INSTRUCTOR.*

Studies of the interface between plants and their physical environment, emphasizing physiological responses of plants to various environmental conditions. Topics include energy and heat budgets, gas exchange and stomatal behavior, photosynthesis and carbon balance, water balance, temperature stress, and soil nutrient availability. These topics of theoretical evolutionary ecology. 10-10-94

**BIOL6119 - Communities and Ecosystems.**

*Three credits. Two hours of lecture and three of laboratory per week Prerequisites: BIOL 3017 OR ITS EQUIVALENT AND PERMISSION OF THE PROFESSOR.*

Study of ecological principles of community structure and function and ecosystem processes. 10-10-94

**BIOL6120 - Phylogenetic Systematics.**

*Three credits. Two hours of lecture, one hour of discussion and three hours of laboratory per week*

*Prerequisites: PERMISSION OF THE PROFESSOR*

An introduction to and a broad overview of the theory and practice modern phylogenetic systematics. Development of skills in application of current theory to real data sets by analysis of data. Computer methodology and techniques will be stressed as well as current trends in the field. 19-08-96

**BIOL6125 - Microbial Ecology.**

*Three credits. Three hours of lecture and three of laboratory work per week Prerequisites: CONSENT OF THE DIRECTOR.*

The study of those factors which govern the interrelationship between micro-organisms and their environment. All groups or organisms identified as microbes will be characterized physiologically, behaviorally, and energetically. The importance of microbes in aquatic, terrestrial and animal and plant environments will be studied with emphasis on population and community dynamics 10-10-94

**BIOL6126 - Population Ecology.**

*Three credits. One and a half hour of lecture, one and a half hour of discussion and three hours of laboratory work per week Prerequisites: PERMISSION OF THE PROFESSOR*

A study of the fundamental theories and methodologies currently used in the analysis of animal and plant populations. Emphasis will be in the quantitative aspects of population biology such as the statistical analysis of spatial dispersion patterns, the mathematical models describing the growth and dynamics of unstructured and age/stage structured populations, and the mathematical models that attempt to explain reproductive decisions in plants and animals such as reproductive effort and sex allocation. 08-12-97

**BIOL6127 - Large-scale Ecology: Landscapes, Processes, and Diversity.**

*Four credits. Three hours lecture, one hour discussion and four hours laboratory Prerequisites: BIOL-3111 OR EQUIVALENT, MATE-3026 OR EQUIVALENT, OR CONSENT WITH PROFESSOR.*

The study of ecosystems from a spatial, geographical, and statistical approach.

**BIOL6130 - Biochemistry.**

*Three credits. Two hours of lecture and one of discussion per week.*

This course is designed for graduate students from the faculty of natural sciences who are interested in the fundamentals governing the distribution and fluxes of elements. A strong theme of this class will examine how natural bio-geochemical processes operate and how human activities can alter these processes. The subject has been divided roughly into two parts: natural biogeochemical processes, and interactions between natural and anthropogenic processes. In the first part, we will discuss biogeochemical processes occurring in atmosphere, land, and ocean. In the second part, we will use all that covered thus far to understand the anthropogenic effects on the cycling of carbon, nitrogen, phosphorus, cations, and sulfur. These topics include the relationship between tropical deforestation and global environmental change and effect of anthropogenic disturbances on primary production and the maintenance of tropical biodiversity.

**BIOL6135 - Analysis of Communities.**

*Three credits. Six hours of lecture, discussion, laboratory, field trips and independent work per week*

*Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Methods used to measure, analyze and classify world communities with emphasis on those found in Puerto Rico. 10-10-94

**BIOL6145 – Bio-conservation.**

*Three credits. Six hours of lecture, discussion, laboratory work and excursion per week Prerequisites: BIOL 3017 OR 6135.*

The dynamics of natural ecosystems with special reference to those of Puerto Rico, development of the country, the importance of their preservation and the methods that can be utilized to conserve them. 10-10-94

**BIOL6165 - Seminar: Tropical Ecological Formations I.**

*Two credits. Two hours of lecture and discussion per week.*

The rainforest. 10-10-94

**BIOL6175 - Seminar: Tropical Ecological Formations II.**

*Two credits. Two hours of lecture and discussion per week.*

The mangrove swamp. 10-10-94

**BIOL6185 - Seminar: Tropical Ecological Formations III.**

*Two credits. Two hours of lecture and discussion per week.*

The coral reef. 10-10-94

**BIOL6190 - Advanced Ecology.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

An in-depth analysis of two or three controversial topics in areas of active research in modern ecology. 10-10-94

**BIOL6195 - Seminar: Tropical Ecological Formations IV.**

*Two credits. Two hours of lecture and discussion per week.*

The haystack mountain and other communities. 10-10-94

**BIOL6230 - Molecular Aspects of Development.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: BIOL 3010 OR 4545 AND BIOL 3015.*

Survey and the analysis of the current trends in developmental biology at the molecular level. 10-10-94

**BIOL6310 - Genetic Analysis.**

*Three credits. Six hours of lecture, discussion and laboratory work per week Prerequisites: BIOL 3015 OR CONSENT OF THE INSTRUCTOR.*

Study of mutations, gene structure and function, recombination, meiosis, chromosomal organization and regulation in prokaryotes and eukaryotes and analysis of some aspects of development. Laboratory work will include induction, detection and characterization of mutants, recombination, tetrad analysis and the use of some genetic techniques for the study of development. 10-10-94

**BIOL6325 - Microbial Genetics.**

*Three credits. Six hours of lecture, discussion and laboratory work per week Prerequisites: BIOL 3015 AND CONSENT OF THE INSTRUCTOR.*

A survey of experimental techniques dealing with the physiology and the genetics of viruses and bacteria. 10-10-94

**BIOL6326 - Current Topics in Genetics and Functional Genomics.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR*

This is a fundamental course for students interested in the areas of molecular genetics/evolution of the biology graduate program. This course describes and discusses the latest technologies and methods that advance the field of molecular genetics. The areas of descriptive genomics and functional genomics are discussed. This course is meant to transfer knowledge on how to analyze model and non-model organisms in the light of the newest genomic technologies available. By the end of the course each student should be aware of the classic and more advanced molecular genetics tools and be able to apply these techniques and methodologies to their own research.

**BIOL6360 - Bioinformatics.**

*Three credits. Three hours of lecture per week Prerequisites: BIOL3349, MATE3026, MATE 3015*

This course is designed as an introduction to bioinformatics and will cover all topics in the field to give a broad overview of the subject to the students. Workshops will be conducted that will provide the hands-on skills re- quired for effectively using bioinformatics tools. In addition, a real research project will be conducted by the graduate students as a team, under the mentor- ship of the professor, the project will be testing the latest concepts in the field and will involve training in techniques that will be of use to the student in their own research. Also, the students will present on their own graduate research, and a brain-storming session will be conducted as a group in order to generate ideas that will strengthen their own research.

**BIOL6367 - Ecological Genetics.**

*Three credits. Three hours of lecture and three of laboratory per week Prerequisites: BIOL 3015 OR EQUIVALENT.*

Measures of genetic variance. Factors that affect genotypic and genetic frequencies, including non-random mating. Basic population dynamics, gene flow and colonization. Speciation, niche and different degrees of environmental heterogeneity. 10-10-94

**BIOL6410 - Biology of The Terrestrial and Freshwater Invertebrates of Puerto Rico.**

*Three credits. Three hours of lecture, discussion and laboratory work per week Prerequisites: BIOL 4415 OR THE EQUIVALENT.*

Study of the systematics and biology of the terrestrial and freshwater invertebrate fauna of Puerto Rico. 10-10-94

**BIOL6500 - General Virology.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: CONSENT OF THE INSTRUCTOR.*

An integrated discussion of bacterial, mammalian, insect and plant viruses; their distribution in nature and how they function through macromolecules. Attachment and entry into cells, virus multiplication, damage of virus growth to cells, tumor and other specific diseases caused by virus. 10-10-94

**BIOL6501 - Fundamentals of Molecular and Cell Biology I.**

*Three credits. Three hours of lecture per week Prerequisites: BIOL 4031-4032 OR EQUIVALENT.*

This is an introductory course that will cover basic concepts and recent literature in the field of molecular biology. Topics that will be covered include structure and function of nucleic acids; DNA replication; mechanisms of DNA repair and recombination; prokaryotic and eukaryotic transcription; RNA processing; post-transcriptional control of gene expression and protein synthesis. The student will also be exposed to novel molecular and cellular techniques to study those processes mentioned above. This course substitutes biol 5546.

**BIOL6502 - Fundamentals of Molecular and Cell Biology II.**

*Three credits. Three hours of lecture per week Prerequisites: BIOL 4031-4032 OR EQUIVALENT. BIOL 6031 (BEFORE "BIOCHEMISTRY OF NUCLEIC ACIDS").*

This course is a continuation of biol 6031 (previously known as biol 5546 "biochemistry of nucleic acids". This is an introductory course that will cover basic concepts and recent literature in the fields of molecular and cellular biology. Topics that will be covered include protein structure and function; membrane transport and the electrical properties of membranes; cell-cell communication; cell cycle and cancer biology. The student will also be exposed to novel molecular and cellular techniques to study those processes.

**BIOL6515 - Cellular Physiology.**

*Three credits. Six hours of lecture, discussion and laboratory work per week Prerequisites: CONSENT OF THE INSTRUCTOR.*

Study of biological functions at the cellular level. Intense laboratory work is aimed to acquaint the students with the methods, tools and techniques 3 of the subject matter. 10-10-94

**BIOL6537 - Currents Trends in Cell Biology.**

*Three credits. Three hours of lecture, discussion per week Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Analysis of current trends in cell biology literature. 10-10-94

**BIOL6575 - Immunology of Parasitism.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: A COURSE IN IMMUNOLOGY OF ITS EQUIVALENT IN LABORATORY EXPERIENCE.*

A review of the contemporary literature regarding humoral and cellular aspects of host-parasite relationships. Concepts of acquired immunity, immunopathology, molecular mimicry, and immunodiagnostic will be discussed. 10-10-94

**BIOL6745 - Biometrics.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: MATH 3015 OR CURRENTLY AND PERMISSION OF THE INSTRUCTOR.*

Elementary probability and probability distributions, estimation of biological parameters and test of biological hypotheses. An elementary understanding of analysis of frequencies (such as chi-square regression), analysis of regression and analysis of variance, as these methods are used in biological research. 10-10-94

**BIOL6800 - Animal Behavior.**

*Three credits. Six hours of lecture, discussion and laboratory exercises per week Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Comparative study of animal behavior, from protozoan to mammals. Perception, orientation, instinct, ritualism, learning and memory, motivation, social behavior and organization, communication, regulating behavior and evolution of behavior. 10-10-94

**BIOL6802 - Evolution.**

*Three credits. Three hours of lecture per week Prerequisites: BIOL 4345 OR CONSENT OF THE PROFESSOR.*

This course is a detailed study of mechanisms of the evolutionary process, and resultant patterns of biological diversity. Throughout the course we will discuss major questions in evolutionary biology and how scientists ask and answer those questions. A central aspect of the course is working through details of evolutionary theory and quantitative modeling. We will also focus on the impact of evolutionary biology on modern issues of health, agriculture, and conservation.

**BIOL6900 - Cell Ultrastructure and Electron Microscopy.**

*Three credits. Two hours of lecture and four of laboratory work per week Prerequisites: GRADUATE STUDENT AND PERMISSION OF THE INSTRUCTOR.*

Introduction of cellular ultrastructure and the techniques required for its study using transmission electron microscopy. State-of-art methods, including ultrastructural probes and image processing, will be presented. 10-10-94

**BIOL6910 - Supervised Research.**

*Two credits. Prerequisites: PREVIOUS APPROVAL OF THE PROFESSOR IN CHARGE OF THE SUPERVISION OF THE STUDENT.*

Supervised research in various research laboratory. May be repeated a maximum of three times provided the student works in a different research laboratory each time. Este curso sustituye a biol 8700

**BIOL6995 - Tropics In Tropical Biology.**

*Two to Four credits. One to three hours of lecture and discussion and three to six hours of laboratory or field work*

Origin, development, structure and function of tropical ecosystems and their biotic components. Discussion of basic mechanisms which operate on tropical ecosystems or on their components. Study of the ecological relationship characteristic of tropical environments. 10-10-94

**BIOL6996 - Seminar in Zoology From.**

*No credits. Three hours of lecture per week and three field trips during the semester*

Discussion of different topics in the biology (evolution, physiology, anatomy, behavior and ecology) of specific groups of animals. 10-10-94

**BIOL6999 - Special Topics in Modern Biology.**

*Two to Four credits. One to three hours of lecture and three to six hours of laboratory work per week*

*Prerequisites: CONSENT OF THE DIRECTOR. THE COURSE CAN BE TAKEN REPEATEDLY, TO A MAXIMUM OF EIGHT*

Readings, lectures, and/or laboratory work taught by the staff and by visiting professors who are specialists in the field. 10-10-94

**BIOL8210 - Seminar: The Analysis of Development.**

*Two credits. Two hours of lecture and discussion per week Prerequisites: PERMISSION OF INSTRUCTOR.*

Discussion of themes related to developmental processes. 10-10-94

**BIOL8340 - Seminar on Genetics.**

*Two credits. Two hours of lecture and discussion per week Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Review of up-to-date publications and new discoveries in the field of genetics. 10-10-94

**BIOL8368 - Seminar in Population Biology.**

*Three credits. Three hours of lecture per week Prerequisites: BIOL 3015 AND 3017. CONSENT OF THE INSTRUCTOR.*

Critical discussion of selected topics from the recent literature in population genetics and ecology. 10-10-94

**BIOL8400 - Seminar in Protozoology.**

*Two credits. Two hours of lecture and discussion per week Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Discussion of the basic structure, physiology and ecology of the principal taxonomic groups of protozoans. Lectures and reading of original papers in protozoology, used as a means for identifying problems and

possible areas of research in this field. 10-10-94

**BIOL8505 - Seminar in Biotechnology.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR. CAN BE TAKEN TWICE, SIX*

Discussion of current literature in a particular area of biotechnology. Emphasis on biological significance, molecular techniques, and practical applications. 19-08-96

**BIOL8527 - Seminar on Neurophysiology.**

*Two credits. Two hours of lecture and discussion per week Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Lectures and reading of original papers used as basis for discussion on the structure and function of excitable cells, and the processes of information transmission in the animal nervous system. 10-10-94

**BIOL8538 - Seminar on Biochemistry.**

*Three credits. Two hours of lecture and discussion per week Prerequisites: PERMISSION OF THE INSTRUCTOR.*

Discussion and practice of the most recent techniques in the fields of biochemistry and molecular biology. 10-10-94

**BIOL8995 - Doctoral Seminar.**

*One to Three credits. A maximum of three*

Preparation and oral defense of a research proposal in a field other than that of the thesis research of the student, accompanied by an exhaustive search of the literature on the subject matter. The work is to be supervised by a member of the program and defended orally before a committee of professors with expertise in the selected field. 10-10-94

**BIOL8997 - Doctoral Dissertation.**

*One to Eighteen credits. Prerequisites: RESEARCH FOR DOCTORAL CANDIDATES.*

One to Eighteen credits. Prerequisites: RESEARCH FOR DOCTORAL CANDIDATES.

**BIOL8998 - Communication Of Investigation For Doctoral Candidates.**

*No credits. Prerequisites: RESEARCH CONTINUATION FOR DOCTORAL CANDIDATES.*

For the PhD degree program students that have completed all course and research credit requirements to maintain an active student status while completing their thesis work. Este curso sustituye a biol 8896. Nueva descripcion a partir agosto 2005.

**CCOM6017 - Operating Systems.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

In this graduate course, operating systems are presented as a vehicle for applications at the user level, their usefulness as the guardian between applications, the diversity and functionality of computer resources. This through the topics on processes and threads, memory management, file system and security. There will be an emphasis on virtualization and distributed systems in process concurrency problems and their traditional solutions. This course will be offered face-to-face, hybrid and online. This course has equivalence with ccom 6006.

**CCOM6029 - High-level Programming Languages.**

*Three credits. One hour of lecture and two hours of discussion per week.*

The course completes the education of programming languages, exposing the student to concepts such as: syntax, semantics and elements of the most know programming paradigms that are imperative, functional and logical. Answers are provided to questions about why there are so many programming languages and



why there is no single unified model of programming languages. This course will be offered face-to-face, hybrid and online.

### **CCOM6030 - Software Engineering.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

This course provides an overview of the principal concepts of software engineering. The elements of the software life cycle, requirements analysis, implementation, verification and validation, as well as ethical issues related to the software development process are presented. Students will develop a group project that will put them in the position of software designers and developers. This course will be offered face-to-face, hybrid and online.

### **CCOM6035 - Development Of Applications With A Social Impact.**

*Three credits. One hour of lecture and two hours of discussion per week.*

The course gives students the opportunity to develop an application that will have a direct impact on the community and society. This through group work under the supervision of a teacher following the co-design methods and mentalities combined with the scrum framework to design and develop applications focused on interest and with constant participation of the people affected by the application. Students will have regular meetings to present and discuss the development process, progress made, and the actions necessary to complete the project. At the end of the semester, each group will deliver the software application with a user manual. This course will be offered face-to-face, and hybrid.

### **CCOM6045 - Computational Cell Biology.**

*Three credits. One hour and a half of lecture, one hour of discussion per week Prerequisites: CCOM 6681.*

The course will introduce the student to the mathematical modeling of different cellular activities. Examples of cellular processes will be used to motivate concepts and techniques used in computational cell biology. Progressively, the complexity of cellular functions modeled with mathematical and computational techniques will increase. The course will focus on the simulation of functions that describe certain physiological behavior in the cell. This course will be offered face-to-face, hybrid and online.

### **CCOM6050 - Design and Analysis of Algorithms.**

*Three credits. One hour and a half of lecture, and two hours of discussion per week.*

The course is at the graduate level on the design of efficient algorithm analysis. Advanced algorithm design methods are taught, including divide and conquer, dynamic programming, greedy methods, randomized algorithms, and approximation algorithms. Asymptotic, amortized and probabilistic analysis methods associated with efficient algorithm design strategies are studied. In addition, an introduction to computational intractability, specifically NP-completeness, is presented. This course will be offered face-to-face, hybrid and online. This course has equivalence with math 6682.

### **CCOM6070 - Introduction to Machine Learning.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

The course presents basic concepts and techniques of machine learning. The class provides a fluent introduction primarily to supervised classification algorithms, such as simple linear classifiers, decision trees, neural networks, and support vector machines. Other topics include unsupervised and semi-supervised learning, reinforcement learning, and probabilistic graphical modeling. The emphasis of the course will be experimentation and practice. This course will be offered face-to-face, hybrid and online.

### **CCOM6086 - Computer Architecture.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

The course qualitatively and quantitatively examines the decisions made during computer design and their

impact. You learn about simple processors that can execute multiple instructions concurrently and why today's memory systems are almost as complex as processors. Unlike an introductory computer architecture course that discusses enough to create a functional processor, this course focuses on techniques for designing "the best" processor. This course will be offered face-to-face, hybrid and online.

### **CCOM6120 - Introduction to Computer Vision.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

The course is graduate that introduces image analysis and computer vision over mathematical models and algorithms that allow computer to automatically extract information from images and videos. Topics to be covered will be the three main aspects: pixel-level image processing, machine learning of visual models, and estimation of geometric. Practice will be developed with the programming of applications such as image segmentation, detection and recognition of objects, using open-source software libraries. This course will be offered face-to-face, hybrid and online.

### **CCOM6189 - High Performance Computing.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

The course is an elective where high performance computing systems are designed: clusters, co-processors, interconnection networks, parallel file systems. Students will learn techniques for designing software that achieve high performance in these systems, such as performance measurement and the factors that determine it. There will be practical experiences applying the skills acquired in scientific computing problems. This course will be offered face-to-face, hybrid and online. This course is equivalent with mate 6681.

### **CCOM6680 - Computational Analysis.**

*Three credits. Two hours of lecture, one hour of discussion per week.*

The course is about numerical analysis that aims to provide computational methods to study and solve mathematical problems involving real variables. These methods provide approximations to the true solution of the problem, the study of errors that is very important for numerical analysis. The mathematical foundations of numerical methods are provided; analyze the basic theoretical properties of the method: stability, precision and computational complexity. Also, illustration of method performance using computational examples and counter examples using a high-level programming language, such as matlab/octave. This course will be offered face-to-face, hybrid and online. This course is equivalent with mate 6680.

### **CCOM6685 - Applied Bioinformatics.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: TEACHER'S AUTHORIZATION.*

The course will introduce the student to the design of algorithms and data analysis for molecular biology. Examples of molecular processes will be presented to motivate the study of the concepts and techniques used in computational molecular biology. The complexity of the data studied will progress, as will the mathematical and computational techniques for its analysis. The main focus of the course will be biological sequence analysis. This course will be offered face-to-face, hybrid and online. This course equivalent with mate 6685.

### **CCOM6882 - Optimization.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

This is a course on nonlinear optimization problems, both unconstrained and constrained. We will study optimality conditions and the basic numerical optimization methods with their convergence analysis. The numerical methods include basic descent methods, conjugate direction methods quasi newton algorithms, reduced gradient method, gradient projection method, penalty and barrier methods, duality, and LaGrange

methods. This course will be offered face-to-face, hybrid and online. This course is equivalent with mate 6882.

### **CCOM6981 - Research and Techniques for Computer Scientists.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

The course will present the basic skills that are essential to becoming a successful graduate student and researcher. Conference topics will include pedagogy, research methodology, experimental design, career option, professional ethics and academic integrity, and oral written presentation techniques in English. Presentations will be offered by members of the com faculty and graduate students on their own investigations that allow them to develop cognitive skills for the detection and formulation of problems, as well as the development of strategies for solving them, as a diagnostic basis for the elaboration of proposals and projects. This course will be offered face-to-face, hybrid and online.

### **CCOM6995 - Topics In Computer Science.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: AUTHORIZATION OF THE PROFESSOR.*

In this course students will perform a detailed study on one or more specific topics in computer science. Given the changing nature of the area, the topics will vary frequently. The course offers the students the opportunity to learn about current topics related to computer science. The course might be taken several times if the topics are different. This course will be offered face-to-face, hybrid and online.

### **CCOM6996 - Master Thesis.**

*Three credits. Prerequisites: TEACHER PERMISSION.*

In this course, students will delve into the selected topic and conduct research leading to the preparation of the master's thesis. The resulting work is expected to be of an expository nature related to the courses taken and written in a format that follows the guidelines of our department manual. This course will be offered face-to-face, hybrid and online. This course can be repeated up to a maximum of 6 credits.

### **CCOM6997 - Master Project.**

*Three credits.*

The course is for students to plan and develop a project under the supervision of a teacher. The resulting work is expected to solve a problem or task for a specific target audience. This course will be offered face-to-face, hybrid and online.

### **CIAM6101 - Soils and Environment.**

*Three credits. Two hours and a half of lecture and half an hour of laboratory per week.*

This is a conference and laboratory elective course designed to teach students the 1) physical, chemical and biological properties of soils, 2) soil morphology and genesis, 3) biological diversity in soils, 4) soils and biogeochemical cycling, and 5) the management and applications of soil properties to environmental concerns. This course should instill awareness of soil as a basic natural resource, the use or abuse of which has a considerable influence on human society and life in general. This course targets graduate students in the environmental sciences program.

### **CIAM6115 - The Terrestrial Environment.**

*Three credits. Three hours of lecture per week.*

Study of the geological, geomorphologic, hydrologic and climatic processes in mountainous, alluvial, and karstic regions characteristic of islands and tropical regions. The focus is on the study of the impacts of human activity, environmental problems resulting from that activity, and strategies to promote a sustainable development of the studied regions. Topics are discussed and analyzed in the context of the general theory

of systems using the watershed as the study unit.

**CIAM6116 - Tropical Ecosystems.**

*Three credits. Prerequisites: ADMISSION TO THE GRADUATE PROGRAMS ON ENVIRONMENTAL SCIENCES OR PERMISSION OF THE PROFESSOR.*

Study of the characteristic ecosystems of island and tropical regions and their spatial distribution. The interactions among different biotic and abiotic components within these ecosystems, as well as the impact of natural processes and human activities on them are examined in a systematic manner.

**CIAM6117 - The Coastal Environment.**

*Three credits. Three hours of lecture per week.*

Study of the ecology and processes (geological, geomorphic, hydrologic and climatic) of the coastal region, including the intertidal surge zone, estuaries reefs and others. The focus is on the study of the impact of human interactions on this environment, environmental problems associated with these interactions, and strategies to promote sustainable development in these regions.

**CIAM6118 - The Urban Environment.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OF ENVIRONMENTAL SCIENCES OR PERMISSION OF THE PROFESSOR.*

Study of cities from a systems perspective. Urban structure and function, city climate, urban ecology, the impact of transportations systems, energy generation, water distribution, disposal of used water and solid waste, and the impact human activities on environmental quality are examined. Issues in urban planning, green areas, natural risks, urban noise distribution of poverty pockets, and aspects of environmental justice are considered. Strategies are discussed to improve the quality of life within cities and promote sustainable development. Characteristic contaminants of urban area and their transport and diffusion mechanisms are examined.

**CIAM6901 - Graduate Seminar in Environmental Sciences I.**

*Three credits. One hour of seminar per week.*

Three credits. One hour of seminar per week.

**CIAM6910 - Graduate Research.**

*One to Three credits. One to three hours of research per week Prerequisites: PERMISSION OF THE COORDINATOR OF THE GRADUATE PROGRAM ON ENVIRONMENTAL SCIENCES.*

Research in environmental science supervised by a faculty member in their laboratory, to introduce starting graduate students to concepts, procedures, and techniques employed to conduct research in a specific area. Course may be taken up to two times for a maximum of 6 credits by a student in the M.S program and up to three times for a maximum of 9 credits by a Ph.D. Student.

**CIAM6990 - Special Topics in Environmental Sciences.**

*One to Three credits. One to three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR AUTHORIZATION OF THE PROFESSOR.*

Detailed study on one or more specific topics in environmental sciences, usually the direction of visiting professors or specialists in one of the areas of environmental science. The course is designed to offer a practical and theoretical experience on one or more specific topics of current interest in the environmental sciences. The topics will vary each year. The format of the course facilitates invited experts in the selected topics to dedicate a week or more to lectures and laboratory or empirical experiences. (Maximum 12 credits).

**CIAM6999 - Graduate Research for the Masters in Environmental Science.**

*One to Three credits. 5-15 hours of research Prerequisites: AUTHORIZATION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM ON ENVIRONMENTAL SCIENCES.*

Thesis research leading to the master's degree in environmental sciences. (Maximum 6 credits).

**CIAM8115 - Human Dimensions of Environmental Change.**

*Two credits. Two hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OR THE COORDINATOR OF THE GRADUATE PROGRAM OF ENVIRONMENTAL SCIENCES.*

Relationship between humans and the environment with emphasis on the social, politicoeconomically and cultural factors of the conservation of natural resources and environmental degradation. A variety of themes will be explored such as the social construction of nature, environmental justice and environmental movements. The course presents an ample and panoramic perspective to contextualize the decision-making processes (at the state, community and individual levels) with respect to the management of natural resources. Promotes the application of the concepts learned through collaborative projects with stakeholders in contemporary environmental issues in Puerto Rico.

**CIAM8116 - Policy and Ethics of The Environment.**

*Two credits. Two hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM IN ENVIRONMENTAL SCIENCES.*

This course focuses on how environmental policy evolves and on the ethics of different stakeholder positions, especially in relation to the selected Puerto Rico environmental problems. Students will explore "environmental capacity", defined as both, the possession of the proper resources necessary for the implementation of activities associated with environmental protection, as well as the willingness to use those resources. Environmental issues are question of managing the commons, meaning that conflicting values are involved. Therefore, students will need to apply an ethical perspective to environmental issues, health promotion issues and policy solutions. Students will apply principles to selected group projects.

**CIAM8117 - Urban Environment, Design and Expansion.**

*Two credits. Two hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM OF ENVIRONMENTAL SCIENCES.*

Students will study environmental characters of cities and suburbs, the impacts of urban development on the environment, especially in the tropics, and principles of improved design for sustainable urban and suburban areas. Especially as related to the selected Puerto Rico environmental problems. They will focus on the connections among land use, urban form, transportation patterns, tourism development, and environmental problems in Puerto Rico, the u. S. And elsewhere. Economic agents, the environment and society have the capacity to their urban space. The long-term sustainability of the urban development process is based on the capacity to reconcile the growth interests (economic and urban), conservation and social equity. This course will consider "urban space" as a scenario where economic agents, the environment and society interact in turn, these elements have the ability to create and transform their urban spaces.

**CIAM8118 - Socio-ecological Models and Ecological Informatics.**

*Two credits. Two hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM IN ENVIRONMENTAL SCIENCES CONSIDERING AN APPROPRIATE MATHEMATICS BACK GROUND OF THE STUDENT.*

Modeling and informatics are increasingly important tools for environmental scientists. Students will be introduced to the basics of modeling for social-ecological models and environmental informatics. Topics to be covered include types and uses of models; distinguishing between models and hypotheses; data structure, metadata, and data interpretation information theory; hypothesis formation and testing; modeling methodologies and when to use them; relational databases and web-based data services; and examples of

simple and complex models, with parametrization and validation. Students will apply these techniques to components of the natural and social systems for the selected group project.

### **CIAM8119 - Ecosystem Services and Ecological Economics.**

*Two credits. Two hours of lecture per week*

As per millennium ecosystem assessment, the course will focus on supporting provisioning, and regulating ecosystem services as the link between human economies and natural systems, and the increasing pressures these systems face. The just allocation and sustainability of these services will be considered from different economic points of view, including regulated and open markets, the tragedy of the commons, and ecological economics. To be examined are the conflicts between growth and sustainability, as well as possible solutions, such as valuations that include the true ecological and social costs of resource exploitation and incentive structures. Students will apply principles of ecological economics to selected group projects.

### **CIAM8120 - Environmental Communication.**

*Two credits. Two hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM OF ENVIRONMENTAL SCIENCES.*

To engage diverse members of the community in environmental science and policy formation, students will develop skills of formal debate and argumentation. Special emphasis will be given to the ethical dimensions of resource allocation and sustainability. The course will analyze how the media portrays environmental science and the feedback of that portrayal on national and international initiatives. Through selected issues, students will explore the ethical foundations of different viewpoints with emphasis on clarity and accuracy in the communication of the supporting science to diverse members of the community.

### **CIAM8205 - Special Topics in Spatial Analysis.**

*Two credits. One hour of lecture and one of discussion per week Prerequisites: PERMISSION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM OF ENVIRONMENTAL SCIENCES.*

Advanced seminar directed to analysis and discussion of literature and recent advances in environmental spatial analysis with emphasis on islands and tropical regions.

### **CIAM8226 - Geospatial Techniques in Environmental Sciences.**

*1 credit. Three hours of laboratory per week Prerequisites: CINA4995*

Laboratory course in which applications of cutting-edge geospatial techniques in environmental science will be discussed and conducted. Students will apply the knowledge and the techniques acquired to solve the environmental problems through a series of case studies. The topics cover the application in community assemblages, hydrological dynamics, landslides epidemic disease, land cover, land use changes, and global carbon dynamics. It will include critical oral presentations on frontier papers, workflows to solve environmental problems, and written reports for the topics. Changes in credits since August 2017

### **CIAM8405 - Seminar on Topics In Sustainable Management Of Islands And Tropical Regions.**

*Two credits. Two hours of seminar per week Prerequisites: PERMISSION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM ON ENVIRONMENTAL SCIENCES.*

Advanced seminar directed towards analysis and discussion of literature and recent developments in island and tropical management.

### **CIAM8425 - Environmental Geology.**

*Three credits. Three hours of lecture per week Prerequisites: CIAM6115, 6117 and 6118.*

Study of the interaction between human activities and geological processes problems related to slope stability, processes of erosion, transport, and sedimentation, and measurement of the physiochemical properties of geological materials are analyzed. Chemical equilibrium, transport mechanisms, and desti-

nation of characteristic contaminants of the soil matrix are examined. The hydrogeology, diffusion and transport of pollutants through the soil and aquifers, sampling techniques, rehabilitation strategies for contaminated sites geological hazards induced by natural phenomena and geological problems resulting from the development of human infrastructure in mountains, karst, flood plains and coastal regions are also studied.

#### **CIAM8435 - Environmental Hydrology.**

*Three credits. Three hours of lecture per week Prerequisites: CIAM6115, 6117, 6118.*

Study of hydrological processes and water pollution. Chemical equilibria transport mechanism, and destination of contaminants characteristic of the water matrix are examined. Measurement of water budgets, determination of physical and chemical parameters for natural waters, techniques for sampling and analysis of contaminants, processes of diffusion and transport of contaminants in surface and groundwater, impact of diverse human activities on hydrologic balances and water quality are discussed, as well as strategies for prevention, remediation, and mitigation of surface and groundwater contamination.

#### **CIAM8775 - Waste Management and Disposal.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM CIAM 6115, CIAM6117, CIAM6118.*

Analysis of all types of waste disposal problems for islands and tropical regions, with emphasis on Puerto Rico, and study of the different alternatives and technologies and plants, incineration and other topics are examined. Environmental impacts are discussed for different alternatives to the waste management problem for island and tropical regions, with focus on solutions compatible with sustainable development.

#### **CIAM8785 - Energy Generation.**

*Three credits. Three hours of lecture per week Prerequisites: CIAM6115, 6117, 6118*

Study of fundamental energy concepts, the laws of thermodynamics and their practical applications. Analysis of energy demand and alternatives for energy demand and alternatives for energy generation within the context of sustainable development. The environmental impact of different alternatives for energy generation are discussed together with measures that can be taken to minimize this impact.

#### **CIAM8990 - Special Topics in Environmental Sciences.**

*One to Three credits. One hour of lecture and two of research per week Prerequisites: PERMISSION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM IN ENVIRONMENTAL SCIENCES.*

Detailed study on one or more specific topics in environmental sciences, usually under the direction of visiting professors or specialists in one of the areas of environmental science. The course is designed to offer a practical and theoretical experience on one or more specific topics of current interest in the environmental sciences. The topics will vary each year. The format of the course facilitates invited experts in the selected topics to dedicate a week or more to lectures and laboratory or empirical experiences. (up maximum 18 credits).

#### **CIAM8999 - Graduate Research for The Dissertation in Environmental Sciences.**

*One to Six credits. 5 to 30 hours of research Prerequisites: AUTHORIZATION OF THE DIRECTOR OR COORDINATOR OF THE GRADUATE PROGRAM OF ENVIRONMENTAL SCIENCES.*

Thesis research leading to the master's degree in environmental sciences. (Up maximum 18 credits).

#### **CIAM9000 - Doctoral Dissertation Continuation.**

*Zero credits. Prerequisites: CIAM8999 AND PERMISSION OF THE COORDINATOR OF THE GRADUATE PROGRAM OR THE DIRECTOR OF THE ENVIRONMENTAL SCIENCES DEPARTMENT.*

In order to register in this course, the student should have completed all academic requirements and

investigation credits necessary to obtain the doctoral degree in environmental sciences, and have only remaining the completion, presentation and defense of the dissertation. A student enrolled in this course will be considered a full-time student of the environmental science Ph.D. Program and of the university of Puerto Rico, Rio Piedras campus. Maximum 7 repetitions).

### **FISI6101 - Research Experience in Physics.**

*One to Three credits. Three to nine hours of research per week Prerequisites: AUTHORIZATION OF THE PROJECT SUPERVISOR PROFESSOR. Corequisites: PHYS 6500.*

Research work under the supervision of a faculty member, for students working towards their non-thesis master's degree. Experimental research will cover advanced instrumentation techniques used in research work, survey of instrumentation used in experimental physics and computer controlled experimental apparatus. Theoretical research will involve the study and application of theoretical physics techniques to a problem of relevance in the modern physics literature. This course will be offered in face-to-face.

### **FISI6401 - Methods of Theoretical Physics I.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 4032*

Functions of a complex variable. Partial differential equations of physics. General solutions: series and integral representations. Boundary conditions and eigen-functions. Hilbert-space, green-functions, and generalized functions. Integral equations. Perturbation methods, scattering theory. Complex energy and angular momentum properties, variational principles. 10-10-94

### **FISI6402 - Methods of Theoretical Physics II.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 4032*

Functions of a complex variable. Partial differential equations of physics. General solutions: series and integral representations. Boundary conditions and eigen-functions. Hilbert-space, green-functions, and generalized functions. Integral equations. Perturbation methods, scattering theory. Complex energy and angular momentum properties, variational principles. 10-10-94

### **FISI6406 - Advanced Laboratory I.**

*Three credits. Three hours of lecture and three hours of laboratory work per week Prerequisites: PERMISSION OF THE INSTRUCTOR*

Advanced experiments in spectroscopy, electronics, optics, and atomic and nuclear physics. Training in laboratory techniques used in research work. 10-10-97

### **FISI6407 - Advanced Laboratory II.**

*Three credits. Three hours of lecture and three hours of laboratory work per week Prerequisites: PERMISSION OF THE INSTRUCTOR*

Advanced experiments in spectroscopy, electronics, optics, and atomic and nuclear physics. Training in laboratory techniques used in research work. 10-10-94

### **FISI6412 - Advanced Mechanics I.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE INSTRUCTOR*

Variational principles; theories of LaGrange, Hamilton and Hamilton-Jacobi. Optic-mechanical analogies. Theory of small oscillations. The wave equation in one, two and three dimensions. Perturbation theory. Scattering theory. 10-10-94

### **FISI6413 - Advanced Mechanics II.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE INSTRUCTOR*

Variational principles; theories of LaGrange, Hamilton and Hamilton-Jacobi. Optic-mechanical analogies.



Theory of small oscillations. The wave equation in one, two and three dimensions. Perturbation theory. Scattering theory. 10-10-94

### **FISI6426 - Solid State Physics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 6451 AND 6454 (OR CONCURRENTLY)*  
A study of crystal structures, dislocations, crystal growth, and lattice binding energy. The free electron model for electrical and thermal conductivity in metals. Band theory for semi-conductors and insulators. Excitons, optical absorption, and luminescence. 10-10-94

### **FISI6431 - Electromagnetic Theory.**

*Three credits.*  
Electrostatics and magnetostatics. Electromagnetic theory, Maxwell's equation, and wave solutions in a vacuum. 10-10-94

### **FISI6432 - Classical Electrodynamics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 6431*  
Maxwell's equation, conservation laws, potential and gauge transformations, solution of the homogeneous and inhomogeneous wave equations, retarded potentials, special relativity. Radiation from an accelerated charge, radiation reaction. Stress properties of electromagnetic fields. 10-10-94

### **FISI6438 - Basic Electron Microscopy.**

*Three credits. Three hours of lecture per week.*  
This is an introductory course on electron microscopy for the study of mat materials. Electron microscopy has indeed become essential in the characterization available to its best, students will gain some light theoretical knowledge and practical tips, in the form of short lectures. Topics will include the basics of sample preparation, scanning electron microscopy, transmission electron microscopy, and structural determination.

### **FISI6441 - Nuclear Theory.**

*Three credits. Three hours of lecture per week*  
Structure and systematics of nucleus. Properties of nuclear forces. The two-body problem. Nuclear models, nuclear reactions. Interaction with electromagnetic radiation. Beta disintegration. Introduction to the Bruckner theory of nuclear matter. 10-10-94

### **FISI6451 - Quantum Mechanics I.**

*Three credits. Prerequisites: PERMISSION OF THE CHAIRMAN OF THE DEPARTMENT*  
Introduction of Schrodinger's wave equation and application to simple cases, eigen-functions and eigen-value problems. The harmonic oscillator. Meaning of Heisenberg's uncertainty principle. Wave equation for the hydrogen atom and its solution. 10-10-94

### **FISI6452 - Quantum Mechanics II.**

*Three credits. Quantum mechanics ii Prerequisites: PHYS 6451*  
Matrices and operators. Hilbert spaces and transformation theory. Angular momentum and spin. Multiple particle systems. Perturbation theory. Symmetry properties and applications. Atomic and molecular structure. Scattering theory. Dirac's electron and introduction to quantum electrodynamics. 10-10-94

### **FISI6453 - Quantum Mechanics III.**

*Three credits. Prerequisites: PHYS 6451*  
Matrices and operators. Hilbert spaces and transformation theory. Angular momentum and spin. Multiple particle systems. Perturbation theory. Symmetry properties and applications. Atomic and molecular

structures. Scattering theory. Dirac's electron and introduction to quantum electrodynamics. 10-10-94

**FISI6454 - Statistical Mechanics.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 6452*

Generalized canonical formulation of quantum mechanics, applications to various thermodynamics systems. Irreversible statistical mechanics. 10-10-94

**FISI6462 - Quantum Field Theory II.**

*FISI6462 - Quantum Field Theory II.*

Relativistic wave equations and classical fields. Quantization of the wave fields. Green's functions. Feynman's positions theory. S matrix theory, elementary applications. Renormalization theory. Lee's model. Nuclear force problem. The axiomatic approach. Dispersion relation. Regge's poles. 10-10-94

**FISI6463 - Quantum Field Theory II.**

*Three credits. Three hours of lecture per week*

Relativistic wave equations and classical fields. Quantization of the wave fields. Green's functions. Feynman's positions theory. S matrix theory, elementary applications. Renormalization theory. Lee's model. Nuclear force problem. The axiomatic approach. Dispersion relation. Regge's poles. 10-10-94

**FISI6475 - Atomic and Molecular Scattering.**

*Three credits.*

Study of theoretical methods used in the

**FISI6481 - Group Theory and Quantum Mechanics.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6452*

Elements of group theory. Space groups and their representation. Invariance of kinematic and dynamic relations of quantum mechanics over Lorentz's and the permutation groups. Block functions and Brillouin zones. Elementary excitations. 10-10-94

**FISI6483 - Special Topics in Theoretical Physics.**

*Three credits. Three hours of lecture per week*

Selected topics depending upon the needs and qualification of the student. 10-10-94

**FISI6484 - Special Topics in Theoretical Physics.**

*Three credits. Three hours of lecture per week.*

Selected topics depending upon the needs and qualification of the student. 10-10-94

**FISI6485 - Semiconductor Electronics.**

*Three credits. Three lectures per week Prerequisites: PHYS 6451*

Quantum mechanical foundation of semiconductors, band theory, emission, metal semiconductor contacts, p-n junction, minority carriers, trapping, injections, tunnel diodes, transistors, luminescence, photo-conductivity, electrical noise in semiconducting devices. 10-10-94

**FISI6500 - Colloquium I And II.**

*Non credits. Weekly meeting*

Lectures by staff and visitors on research in various areas of physics. 10-10-94

**FISI6510 - Advanced Topics in Physics Three Credits. Three Hours of Lecture Per.**

*Week credits.*

Lectures, discussions, and readings on advanced topics in physics. May be taken several times up to a maximum of 6 credit hours. 10-10-94

**FISI6896 - Thesis Continued.**

*Non credits. Prerequisites: TO HAVE COMPLETED ALL*

This course will permit those of the master's degree program students that have completed all course and research credit requirements to maintain an active student status while completing their thesis work. 10-10-94

**FISI6991 - Research.**

*One to Six credits.*

Research work under the supervision of a member of the staff, for students submitting a thesis for credit. 10-10-94

**FISI6995 - Research Seminar.**

*One to Three credits. Prerequisites: FISI 4032 (METHODS OF MATHEMATICAL PHYSICS) OR EQUIVALENT.*

Advanced studies and formative discussions on specialized physics topics. It is centered in the discussion of frontier theoretical and experimental methods, the discussion of original results obtained in the research and advanced readings from the scientific literature.

**FISI8105 - Topics in Material Science.**

*Three credits. Three hours by agreement Prerequisites: PHYS 4057*

Formulation of the physical properties of crystals in tensorial notation, with emphasis on the common mathematical basis of the properties and of the thermodynamic relationships among these properties. Topics to be studied include tensors, paramagnetism, electric polarization, stress tensor, thermal expansion and deformation tensor, piezo-electricity, elasticity, transport properties, electro-optical effect and optical activity. 10-10-94

**FISI8115 - Infrared and Raman Spectroscopy.**

*Three credits. Three hours of lecture per week Prerequisites: PHYS 6452 OR ITS EQUIVALENT*

An advanced level course dealing with the theory of the interaction of radiation with matter and related experimental techniques. Emphasis will be placed on the interactions giving rise to Raman scattering and the absorption and emission of infrared radiation. 10-10-94

**FISI8116 - Advanced Electron Microscopy.**

*Three credits. Three hours of lecture per week*

High resolution electron microscopy and spectroscopy techniques for the study of nanomaterials. Electron microscopy techniques are essential in the fine characterization of a variety of materials and especially nano materials. This course is most suitable for graduate students who wish to enhance their expertise for the characterization of materials using high resolution electron microscopies and spectroscopies. Previous exposure to basic scanning electron microscopy and transmission electron microscopy is required. The course is designed to include a significant exposure to high resolution instrumentation. Also, in order to use the instrumentation available to its best, students will gain some theoretical knowledge and practical tips, in the form of short lectures. Topics include high resolution scanning electron microscopy, high resolution transmission electron microscopy, high resolution scanning transmission electron microscopy, high resolution imaging, high resolution x-ray spectroscopy and high resolutions electron energy loss spectroscopy.

**FISI8135 - The Chemistry and Physical of Surfaces.**

*Three credits. Three hours by agreement Prerequisites: PERMISSION*  
Theory of surface states in metals. Adsorption theory. Valence method. Linear response. Charged surfaces. Experimental techniques (auger). Properties of quasi-2-dimensional systems. Adsorption and desorption. Electron impact desorption. Photo impact desorption. Field emission and photo emission spectroscopy. Low energy electron diffraction. Techniques of thin film formation and studies of properties. 10-10-94

**FISI8145 - Advanced Electrochemistry.**

*Three credits. Three hours of lecture per week*  
The structural bases of electrochemistry. Thermodynamic

**FISI8991 - Thesis Research for Ph.D. In Chemical- Physics.**

*One to Eleven credits.*  
Research work towards the doctoral thesis under the advice of a faculty member. 10-10-94

**FISI8992 - Special Topics in Materials Science.**

*One to Three credits. Prerequisites: AUTHORIZATION OF THE DIRECTOR OF THE DEPARTMENT OF PHYSICS*  
Formulation of the physical properties of crystals in tensorial notation, with emphasis on the common mathematical basis of the properties and on the thermodynamical relationships among these properties. Topics to be studied include tensors, paramagnetism, electric polarization, stress tensor, thermal expansion and deformation tensors, piezo-electricity, elasticity, transport properties, electro-optical effect and optical activity. 10-10-94

**FISI8994 - Special Topics in Solid State Physics.**

*One to Four credits. Prerequisites: PERMISSION*  
Study and discussion of diverse topics in the field of solid state physics 10-10-94

**FISI8995 - Seminar: Chemical-physics.**

*One to Four credits. Two hours of lecture per week Prerequisites: FOR STUDENTS WORKING IN THE CHEMICAL-PHYSICS DOCTORATE DEGREE*  
Seminar presented by students under the supervision of a faculty member in the presence of several faculty members of the department. 10-10-94

**FISI8996 - Special Topics in Chemical-physics.**

*One to Four credits. Prerequisites: PERMISSION OF THE DIRECTOR*  
An advanced course covering special topics in the area of chemical-physics. The specific content will vary according to the need for instruction in a specified area to accommodate the research interests of students and professors in the doctoral program in chemical-physics. 10-10-94

**MATE6101 - Number Theory.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3040 AND 4032.*  
Fundamental non-analytic theory. Theory of congruences. Theorems of Wilson and Euler and applications. Sums of two squares. Primitive roots. Quadratic reciprocity law. 19-08-96

**MATE6102 - Analytic Number Theory.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6101.*  
Introduction to analytic number theory. Methods of Selberg and Erdos. The prime number theorem. 19-08-96

**MATE6150 - Linear Algebra.**

*3 credits. Prerequisites: MATE 4031*

Vector spaces over arbitrary fields. Bases. Linear transformations. Matrices. Dual space. Complex vector spaces. Elementary canonical forms. The rationale and Jordan canonical forms. Spectra of transformations. Tensor products. Bilinear forms.

### **MATE6180 - Introduction to Homological Algebra.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6202 OR ITS EQUIVALENT.*

Exact sequences. Projective, injective and flat modules. Categories. Abelian categories. Functors. Resolutions. Homology. Homological dimension and applications. 19-08-96

### **MATE6200 - Group Theory.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4033.*

Fundamental properties of groups. Invariant subgroups. Isomorphism and homomorphism. Free groups. Direct and free products of groups. Permutation groups. Transformation groups. 19-08-96

### **MATE6201 - Modern Algebra I.**

*Three credits. Three hours of lecture per week*

A survey of abstract algebra. Groups, rings and fields. Introduction to Galois theory. 19-08-96

### **MATE6202 - Modern Algebra II.**

*Three credits. Three hours of lecture per week Prerequisites: MATH6201.*

Rings and ideals. Quotient rings. Ring homomorphisms. Prime and maximal ideals. Nilradical and Jacobson radical. Modules, submodules and quotient modules. Module homomorphisms. Finitely generated modules. Exact sequences. Tensor products of modules. Rings and modules of fractions. Primary decomposition. Integral domains. 19-08-96

### **MATE6261 - Functions Of Real Variable I.**

*3 credits. Prerequisites: MATE5201*

Overview of the following topics: set theory, real numbers, completeness of the real numbers, sequences and series, limits and continuity. Metric and topological spaces. Compactness, connectedness and completeness. Sequences of functions. Uniform continuity and uniform convergence. Differentiation. Riemann-stieltjes integration. Lebesgue measure and integration on the real line. Nueva descripción vigente desde agosto 2003

### **MATE6262 - Functions Of A Real Variable II.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6261.*

Measure theory on sigma algebras. Inner and outer measure. Measurable functions. Convergence in measure. The Lebesgue integral for real functions of a real variable. The random-nikodym theorem. Multiple integrals. Fubini's theorem. Lebesgue's theorem. Lp spaces. Convergence in the mean. 19-08-96

### **MATE6271 - Mathematical Analysis I.**

*Three credits. Three hours of lecture per week Prerequisites: ADVANCED CALCULUS II.*

Introduction to logic and set theory. Vector spaces. Affine subspaces. Bilinearity. Differential calculus in dimensional Euclidean space. The implicit-function theorem. Taylor's formula. Compactness and completeness. Metric spaces. Inner product spaces. Orthogonal transformations. Compact transformations. Differential equations.

### **MATE6272 - Mathematical Analysis II.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6271 ( MATHEMATICAL ANALYSIS I).*

Multilinear functions. The exterior algebra. Integration in dimensional Euclidean space. The change of variable formula. Integral calculus. Differential forms. Stoke's theorem.

**MATE6301 - Functions of A Complex Variable.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4009.*

Differentiation and integration of complex functions. Infinite series. Analytic functions. Analytic continuation. Multiple valued functions. Conformal mappings. 19-08-96

**MATE6460 - Introduction to Functional Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6540 AND PERMISSION OF THE PROFESSOR.*

Fundamental concepts of normed spaces and Banach spaces. Weak convergence and closed transformations. Riesz-Schauder theory. Functions in Banach algebras. Spectral analysis in Hilbert spaces. 19-08-96

**MATE6530 - Metric Differential Geometry.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR.*

Elementary theory of curves and surfaces. The fundamental forms. Euler's theorem. The equations of codazzi-mainardi. The fundamental theorem of surfaces. Curvature. Geodesics. Gauss-bonnet theorem. Envelopes. Conformal, isometric and geodesic mappings. Minimal surfaces and ruled surfaces. 19-08-96

**MATE6540 - Introduction to Topology.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 5201.*

Topology of the line and plane. Abstract topological spaces. Subspaces. Relative topology. Bases and subbases. Continuity. Topological equivalence. Quotient spaces. Metric spaces. Product topology. Separation axioms. Hausdorff spaces. Compact spaces. Connected spaces. Complete metric spaces. Function spaces. 19-08-96

**MATE6545 - Advanced Point Set Topology.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6540.*

The Urysohn metrization theorem. The Tychonoff theorem. Completely regular spaces. The Stone-Čech compactification. Local finiteness. The Nagata-Smirnov metrization theorem. Paracompactness. Complete metric spaces. Compactness metric spaces. Pointwise and compact convergence. The compact open topology. Ascoli's theorem. Homotopy of paths. The fundamental group. 19-08-96

**MATE6551 - Algebraic Topology I.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6540.*

Study of topological problems using algebraic methods. Introduction to the theory of categories and functors. Homological algebra and homotopy theory. 19-08-96

**MATE6552 - Algebraic Topology II.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6551 OR PERMISSION OF THE INSTRUCTOR.*

Tensor products. Künneth relations. Cohomological products. Fixed point theorems. Duality theorems for manifolds. 19-08-96

**MATE6601 - Probability and Statistics I.**

*3 credits. Three hours of lecture per week Prerequisites: MATE5001*

Sample spaces, elementary probability axioms and theorems. Combinatorics. Conditional probability and Bayes theorem. Random variables. Mathematical expectation. Mean, variance and moments of a random

variable. Moment generating functions. Chebyshev's inequality, types of convergence, and the law of large numbers. The central limit theorem. Introduction to a statistics programming tool. Simulations and statistics programming and transformations will be used. Introduction to elementary stochastic processes. In-class online interaction may be combined in this course.

### **MATE6602 – Probability Statistics II.**

*3 credits. Three hours of lecture per week Prerequisites: MATE 5002 MATE6001*

The statistical sufficiency principle and the likelihood principle. Point estimation. Moments, maximum likelihood estimators, Bayesian estimation. Evaluation methods of estimation based on loss functions and the risk function. Hypothesis testing. Type i and type ii errors. Power function. Bayes factors. Optimal tests. P-values. Estimation of probability and confidence intervals. Approximate methods and asymptotic evaluations. Introduction to linear models. A statistic programming tool is used for data analysis. In-class and online inter- action may be combined in this course.

### **MATE6605 - Applied Stochastic Models.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6601.*

Applications of stochastic processes in diverse areas: queueing theory, reliability, inventory theory, decision theory, ecology, population genetics. Emphasis on the mathematical statement of the problem, the solution of the model, and its verification from concrete data. 10-10-94

### **MATE6606 - Applied Stochastic Processes II.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6605.*

Queueing theory. Single and multi-server queues. Fundamentals of reliability theory. Renewal processes. Semi-Markov processes. Regenerative processes. Application to reliability theory.

### **MATE6610 - Sampling Theory.**

*Three credits. Three hours per week Prerequisites: MATE 6602.*

Sample survey theory and design. Simple, random, stratified, systematic and cluster samples. Probability proportional to size sampling. Estimation of population parameters. Ratio, difference and regression type estimators. Use of auxiliary information. Confidence intervals. Optimum choice of sample size. Strata allocation. Selection probabilities. Double sampling and repetitive surveys. Non-sampling errors, randomized response. Sufficiency principle in sample survey model. Superpopulation models.

### **MATE6611 - Linear Models I.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4031, 5002.*

Linear statistical models with emphasis on the mathematical foundations of the underlying theory. Linear algebra will be used particularly in the discussion of the main topics: regression and analysis of variance. 19-08-96

### **MATE6612 - Linear Models II.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 6611.*

Completely randomized block and Latin square designs. Fixed, random, and mixed models. Factorial experiments and confounding. Incomplete block designs. Response surfaces and analysis of covariance. Applications to data analysis. 19-08-96

### **MATE6615 - Bayesian Statistics and Decision Theory.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6601.*

Elements of statistical decisions. Frequentist and Bayesian decision theory. Bayesian analysis: estimation. Hypothesis testing, model selection. Informative and non-informative priors. Approximations and Bayesian

computations. Markov chain monte Carlo methods. Introduction to hierarchical linear, dynamic linear and generalized linear models.

### **MATE6650 - Applied Linear Algebra.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4031 OR ITS EQUIVALENT.*

Finite dimensional vector spaces, matrix algebra, linear systems of equations, rank, inverses, eigenvalues, linear programming, algorithms interactive computational methods, canonical forms, estimation of computational error and practical applications. 10-10-94

### **MATE6656 - Applied Algebra.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4033, 4080.*

Introduction of concepts from the theory of semigroups, groups, rings, fields, and Boolean algebras. Applications to coding theory. Symmetry groups. Polyad's theory of counting. 19-08-96

### **MATE6680 - Computational Analysis I.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 4009, 4031, 5201 OR PERMISSION OF THE DEPARTMENT.*

Introduction to the derivation and analysis of numerical methods. Numerical integration. Approximation of functions. Solution of equations. Eigenvalue problems. Solution of differential equations. Optimization problems. In-class and online interaction may be combined in this course. 19-08-96

### **MATE6681 - Data Structures I.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 5100 OR ITS EQUIVALENT*

Data structures, from a combinatorial viewpoint. Linear, circular and linked lists. Trees. Binary trees. Applications to computer graphics. Operations on polynomials. Dynamic storage allocation and compilers. 19-08-96

### **MATE6682 - Algorithms.**

*3 credits. Three hours of lecture per week Prerequisites: MATE3034 OR ITS EQUIVALENT*

Advanced techniques for the design of efficient algorithms: divide and conquer; dynamic programming; greedy methods; randomized algorithms. Introduction to the analysis of algorithms: asymptotic notation; amortized analysis. Graph algorithms. Applications. Introduction to parallel programming. Np-completeness in-class and online interaction may be combined in this course.

### **MATE6685 - The Computer and Its Applications to The Sciences.**

*Three credits. Three hours of lecture per week Prerequisites: MATH 3026, 3028 OR ITS EQUIVALENT*

Problem-solving using desk-top and mainframe computers. Programming in several widely used computer languages. Applications software for solving statistical and modeling problems. Both interactive and batch will be considered. 19-08-96

### **MATE6686 - Experimental Design and Advanced Data Analysis.**

*3 credits. Three hours of lecture and two hours of laboratory per week.*

This course will introduce the student to commonly used methods in experimental design and statistical data analysis, with applications in biology, chemistry, environmental sciences, nutrition, etc. The student will use statistical programming languages for performing the analysis of data sets using the techniques studied in the course. This course will be offered face-to-face, hybrid and online.

### **MATE6690 - Computational Analysis II.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6680.*



Approximation of functions. Numerical differentiation and integration. Numerical methods for ordinary differential equations: initial value problems. Numerical methods for partial differential equations.

**MATE6700 - Projects In Applied Mathematics.**

*Three credits. Three hours of lecture per week*

Introduction to research in applied mathematics. Emphasis on the formulation and solution of problems from the real world in terms of mathematical models and the interpretation of those solutions in the context of the original problems. 19-08-96

**MATE6800 - Graduate Seminar.**

*Three credits. Three hours of lecture per week*

Students will present material under the supervision of a faculty member. Choice of topic will be determined by the mutual interests of participants 19-08-96

**MATE6881 - Linear Programming.**

*3 credits. Prerequisites: MATE4031, MATE5201*

Classical examples of linear programming. Elements of convex sets. Affine and linear spaces; dimension; affine and convex hulls; linear, affine, and projective transformations. Extreme subsets of closed convex sets. Linear programming problem, the feasible solutions set, and the correspondence between basic and extreme solutions. The fundamental theorem of linear programming. The two phases simplex method. Duality, weak and strong duality theorems. Variants of the simplex method, the revised simplex method, and the dual simplex. Transportation problem and triangulation bases. Transportation algorithm and linear programming applications. In-class and online interaction may be combined in this course.

**MATE6882 - Optimization.**

*3 credits. Three hours of lecture per week Prerequisites: MATE5201*

Non-linear optimization problems, both constrained and unconstrained. Existence conditions for optimal values and basic methods of numerical optimization and its convergence analysis are studied. Numerical methods, such as: basic descent methods. Conjugate direction methods, quasi-newton methods, reduced gradient methods, projected gradient methods, penalty and barrier methods, and lagrange methods. In-class and online interaction may be combined in this course

**MATE6896 - Thesis Continued.**

*No credits. Prerequisites: TO HAVE COMPLETED ALL*

This course will permit master's degree students who have completed all course and research credit requirements maintain active student status while completing their thesis work. 19-08-96

**MATE6990 - Independent Studies.**

*Three credits. May be taken no more than three students.*

Research on some topic of interest by means of informal seminars, lectures and independent research under the supervision of a member of the faculty. 19-08-96

**MATE6996 - Thesis.**

*One to Six credits. Prerequisites: PERMISSION OF THE COUNSELOR.*

Study and research leading to the preparation of a thesis. 19-08-96

**MATE8005 - Enumerative Combinatorics I.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6150, MATE 6201, MATE 8001 (GRAPHS OF THEORY I).*

Review of elementary combinatorics. Outline of the main problems and approaches of enumerative combinatorics. Enumerating trees. Matrix-tree theorem. Coding of trees. Counting euler cycles in a digraph. Counting and listing of nonisomorphic trees of different types. Generating function method in enumerative combinatorics. Enumerating graphs of different types. Poly'a's counting theory of nonisomorphic objects. Enumerating nonisomorphic graphs of different types. Principle of inclusion and exclusion. Lattices, their mobius functions and mobius algebras. Asymptotic results in enumerative combinatorics.

### **MATE8015 - Discreet Algorithms.**

*Three credits. Three hours of lecture per week Prerequisites: (GRAPHS THEORY)*

Branch and bound strategy. Dynamic programming principle. Optimal paths in graphs. Optimal spanning trees in graphs. 2-coloring and odd cycles in a graph. Depth-first search in a graph and its applications. Properties of depth-first search tree. Graph decomposition algorithms. Graph assembling algorithms. Graph planarity algorithms. Euler problems. Hamiltonian problems. Some packing and covering problems for graphs. Metric problems on graphs. Set transformation algorithms. Search trees of different types. Various sorting algorithms. The main ideas of the np-theory (the theory of problem complexity).

### **MATE8021 - Algebraic Combinatorics I.**

*Three credits. Three hours of lecture per week Prerequisites: MATE6202, MATE8001.*

Linear codes. T-error correcting binary codes and finite fields. Cyclic codes. Perfect codes. Block designs. Latin squares. Pairwise balanced designs. Hadamard matrices. Difference sets. Symmetric designs. Finite geometries. Singer's theorem. Transversal designs. Group divisible designs. Steiner triple systems. Kirkman triple systems. Strongly regular graphs. Association schemes distance-regular graphs. Distance transitivity.

### **MATE8031 - Combinatorial Optimization I.**

*Three credits. Three hours of lecture per week*

Elements of linear and integer programming: branch and bound method and its application to combinatorial optimization problems. Network flow theory and its generalizations: statical maximal flow, feasibility theorems and combinatorial applications, minimal cost flow problems, multi-terminal maximal flows, multi-commodity flows. Matching theory and its generalizations: matchings in bipartite graphs, size and structure of maximum matchings, bipartite graphs with perfect matchings, some graph-theoretical problems related to matchings, matchings and linear programming, matching algorithms, the f-factor problem, vertex packing and covering, some generalizations of matching problems.

### **MATE8041 - Matroid Theory I.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6150 - MATE 8001 (GRAPH OF THEORY I).*

Fundamental concepts and axioms of matroid theory. Duality in matroid operations. Vector representation of matroids. The matroid of a graph and graph planarity. Greedy algorithms on matroids. The union of matroids and its rank function. Efficient algorithms for some combinatorial optimization problems (packing, covering, intersection, etc.) on matroids with applications to a variety of combinatorial objects (e. G. Graphs, matrices, algebraic dependencies, transversals).

### **MATE8051 - Convex Polytopes I.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6150.*

The basic concepts of linear and affine geometry. Convex sets and support properties. Supporting hyperplanes. The theorems of radon, helly and caratheodoy. Convex polytopes and their faces. Polarity and duality in convex polytopes. Cell-complexes and Schlegel diagrams. Shelling the boundary complexes. The graph of a d-polytope and its properties. 3-polytopes and Steinitz' theorem. Affine and projective transformations. The fundamental theorem of projective geometry. Simplicial and simple polytopes. Euler's theorem and the Dehn-Sommerville equations. Lower bound and upper bound theorems for convex

polytopes.

**MATE8309 - Complex Analysis II.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6301.*

Analytic continuation. Algebraic functions. Elliptic functions. Entire and meromorphic functions. Normal families. Conformal mappings.

**MATE8465 - Spectral Theory and Differential Equations.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6460, MATE 8460 (FUNCTIONAL ANALYSIS II).*

Unbounded operators. Graphs and symmetric operators. Self-adjointness. Cayley transforms. Extensions of symmetric operators. Resolutions of the identity and the spectral theorem. Stone's theorem. Introduction to distributions. Sobolev spaces. Variational methods. The Laplace operator. The heat equation.

**MATE8469 - Functional Analysis II.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6460.*

Banach algebras. Commutative Banach algebras. Bounded operators on a Hilbert space. Unbounded operators. Topological vector spaces. Duality. Compact operators. Distributions and their applications to the theory of partial differential equations.

**MATE8605 - Simulation and The Monte Carlo Method.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6606 (APPLICATION STOCHASTIC PROCESSES II).*

Random number generation. Random variate generation. Monte Carlo integration. Variance reduction techniques. Simulation of stochastic processes. Regenerative methods for simulation analysis. Simulation of queueing systems. Monte Carlo optimization. Simulation languages. Statistical evaluation of simulation results. Markov chain Monte Carlo methods (MCMC). Gibbs sampler. Metropolis-Hastings algorithm. Applications.

**MATE8680 - Interactive Solution of Systems Of Nonlinear Equations.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6680, MATE 6690 ANALYSIS COMPUTATION II).*

Gâteaux and Fréchet derivatives. Mean value theorems and second derivatives. Contractions. Inverse and implicit function theorems. Sard's theorem. Monotone operators. Degree theory. Properties of the degree and basic existence theorems. General interactive methods. Newton and secant methods and generalizations. Continuation methods. Predictor-corrector methods. Numerical bifurcation theory.

**MATE8685 - Parallel Algorithms-design And Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: MATE 6682.*

Parallel architecture classifications. Parallel computational models. Network models such as arrays, trees and hypercubes. Efficiency and reliability measures for parallel algorithms. Techniques of parallel algorithm design. Primitives for parallel algorithm design. Efficient parallel for integer and matrix computations, fast Fourier transform, sorting and graph problems. Algorithm mappings for network models. Data routing algorithms.

**MATE8800 - Doctoral Seminar.**

*Three credits. Three hours of lectures per week.*

Advanced seminar in research areas related to the doctoral program.

**MATE8899 - Doctoral Dissertation Continued.**

*No credits. Three hours of dissertation per week.*

This course will permit doctoral degree students who have completed all course and research credit requirements to maintain active student status while completing their dissertation work.

**MATE8980 - Topics in Pure Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT OF MATHEMATICS.*

Topics will be chosen according to the interests and availability of faculty and students. (c) 10-10-94

**MATE8985 - Topics in Pure Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8986 - Topics in Pure Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 10-10-94

**MATE8987 - Topics in Pure Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8988 - Topics in Pure Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8989 - Topics in Applied Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8990 - Topics in Applied Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8995 - Topics in Applied Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8996 - Topics in Applied Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8997 - Topics in Applied Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8998 - Topics in Applied Mathematics.**

*One to Three credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Topics will be chosen according to the interests and availability of faculty and students. 19-08-96

**MATE8999 - Doctoral Dissertation.**

*One to 3 credits. One to three hours of dissertation per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Study and research leading to the preparation of doctoral dissertation.

**NUTR6002 - Research Methods in Nutrition and Dietetics.**

*Three credits. Three hours of lecture per week Prerequisites: NUTR 4198, OR EQUIVALENT UNDERGRADUATE RESEARCH COURSE. MATE 3026, OR EQUIVALENT UNDERGRADUATE STATISTICAL ANALYSIS COURSE.*

Discussion of study design, research concepts and terminology associated with nutrition research. Emphasis is given to interpretation of research and through understanding of the role of research in nutrition and dietetics practice. Discussion of the validity and reliability of instruments and the use of biomarkers. Students are expected to develop a research proposal to serve as part of their research project requirement. This course will be offered face-to-face, hybrid and online. Course can be offered in Spanish or English.

**NUTR6003 - Nutrient Metabolism.**

*Three credits. Three hours of lecture, discussion and workshop per week Prerequisites: NUTR 4158, NUTR 4159 OR EQUIVALENT.*

The course focuses on the biochemical function and metabolism of macronutrients and bioactive components in foods in different tissues and organs and its impact in health and disease states. Recent research in nutrient deficiency and excess and its implications in prevention and treatment of different health and disease states will be reviewed. This course may be offered face-to-face, hybrid and online. Courses can be offered in Spanish or English.

**NUTR6004 - Ethics and Professionalism.**

*One credits. Two hours of lecture and discussion per week.*

This course discusses the various components of professionalism in nutrition and dietetics with special emphasis on practice according to ethical and legal frameworks. Includes the discussion of personal attributes that comprise professionalism such as effective communication, interpersonal relations, commitment to lifelong learning and cultural competence. Analysis of the standards of practice in various practice setting and of the scope of practice for the nutrition and dietetics professional. This course will be offered face-to-face, hybrid and online. Course can be offered in Spanish or English.

**NUTR6010 - Medical Nutrition Therapy and Pathophysiology.**

*Three credits. Three hours of lecture, discussion and workshop per week Prerequisites: NUTR 4158, NUTR 4042, NUTR 4165 AND NUTR 4169.*

The course on the integration of the theories and principles of medical nutrition therapy into clinical practice. Case studies will be used to the theories and principles of medical nutrition therapy into clinical practice. Case studies will be used to integrate and apply knowledge of nutrition, dietetics, metabolism, and physiology, with the goal of preparing students who can effectively plan and manage the nutritional care of a variety of patients using a critical thinking approach to evidence-based medical nutrition therapy. This course may be offered face-to-face, hybrid and online. Courses can be offered in Spanish or English.

**NUTR6011 - Pathophysiology of Life Span.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: NUTR 4042, NUTR 4166, NUTR 4169, NUTR 4045.*

The course discusses the life stages of infancy, childhood, adolescence, and older adulthood from physiological, environmental, and behavioral perspectives. Focuses on the nutrient needs of each life stage to promote overall health and wellbeing of these populations. Nutritional care in the prevention and treatment of different nutrient-related conditions across the lifespan will be discussed. This course will be

offered face-to-face, hybrid and online modalities.

### **NUTR6012 - Nutrition Education and Counseling.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: NUTR 4170 OR EQUIVALENT COURSE.*

This course discusses evidence-based communication strategies, following the principles of cultural sensitivity, used for group and individual practice settings. Includes hands-on practice activities to develop interviewing skills and application of education and behavior change theories in educational interventions and written materials. Emphasis on how to present complex information to diverse groups, to identify barriers to learning and adjustments of educational interventions. Methods to evaluate effectiveness of counseling and education interventions are discussed. This course may be offered face-to-face, hybrid and online. Courses can be offered in Spanish or English.

### **NUTR6013 - Nutrition Assessment Diagnosis.**

*Three credits. Three hours of lecture, and discussion per week Prerequisites: NUTR 4158, NUTR 4042, NUTR 4165, NUTR 4166 AND NUTR 4169.*

The course focuses on the analyses of advanced skills and methods of nutritional assessment for individuals and in the community. Measurement and interpretation of nutrition-focused physical examination, medication interactions and laboratory parameters will be assessed. Diagnosing malnutrition and nutrient deficiencies, including clinical characteristics used to identify and determine the degree of malnutrition will be discussed. This course will be offered face-to-face, hybrid and online. Course can be offered in Spanish or English.

### **NUTR6014 - Clinical Nutrition Supervised Experimental Learning.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: NUTR 4165, NUTR 4169, NUTR 4166 OR EQUIVALENT.*

This course will provide 270 hours of supervised experiential learning experiences learning experiences in clinical of institutionalized patients and outpatient clinics. The purpose of the course is to provide the student with the opportunity to apply knowledge and skills in the clinical area scenario. Learning experiences are offered off campus under the supervision of a preceptor or licensed nutritionist and dietitian. This course may be offered face-to-face, hybrid and online. Course can be offered in Spanish or English. Constitutes a full-time academic load for the student.

### **NUTR6110 - Research Project.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: NUTR 4198, MATE 6686.*

The course focuses on designing and carrying out a research project, presentation on the results and its application in the practice of nutrition and dietetics. Opportunities to students will be provided to gain experience conducting research in nutrition and dietetics. Students will develop and carry out a research project that will be disseminated in an oral presentation. Research experience will be under the supervision of a faculty member. This course constitutes a full-time academic load for the student. This course will be offered face-to-face, hybrid and online. Course can be offered in Spanish or English.

### **NUTR6111 - Global Nutrition.**

*Three credits. Three hours of lecture and discussion per week.*

Fundamentals of health promotion and disease prevention using food and nutrition for individuals and communities, with emphasis on global food systems, international populations, their cultures, and geopolitical contexts. Concepts and methods for community-based screening and research programs as evidence for developing, implementing, and evaluating public health nutrition policy through skill-building and participatory activities, as well as developing critical thinking through the evaluation of community

nutrition case, studies in different contexts around the globe. This course may be offered face-to-face, hybrid and online. Course can be offered in Spanish or English.

### **NUTR6112 - Foodservice Management.**

*Three credits. Three hours of lecture and discussions per week Prerequisites: NUTR 4055, NUTR 4068, NUTR 4075, NUTR 4076, NUTR 4086.*

Discussion of the processes of each of the subsystems in a foodservice. Emphasis on transforming resources into food quality and quantity, customer and employee satisfaction, and financial accountability. Discussion of management principles to achieve projects goals and objectives in an effective and efficient way. The course focuses on the professional in nutrition and dietetics working in the institutional or commercial foodservice sector. Through emphasis on teamwork, case studies, and projects, students will demonstrate their competency in applying dietetic skills in a foodservice system. This course may be offered face-to-face, hybrid and online. Courses can be offered in Spanish or English.

### **NUTR6113 - Advanced Concepts in Nutrition.**

*Three credits. Three hours of lecture, discussion and workshop per week*

Discussion of contemporary issues in foods and nutrition. Critical analysis of the scientific literature and the impact each topic may have in the population. This course may be offered face-to-face, hybrid and online. Courses can be offered in Spanish or English.

### **NUTR6115 - Community Nutrition Supervised Experiential Learning.**

*Two credits. 180 hours of discussions, lecture and supervised practice*

This course will provide 180 hours of supervised experiential learning experiences in the facilities that serve the community. The purpose of the course is to provide the student with the opportunity to apply knowledge and skills in the community area in a real scenario. Learning experiences are offered in practice sites off campus under the supervision of preceptors or licensed nutritionist and dietitians. This course will be offered face-to-face, hybrid and online. Course can be offered in Spanish or English. Constitute a full-time academic load for the student.

### **NUTR6116 - Foodservice Management Supervised Experiential Learning.**

*Three credits. Three hours of lecture, discussion and supervised practice per week Prerequisites: NUTR 4075, NUTR 4076, NUTR 4085, NUTR 4086 AND NUTR 6112.*

This course will provide 270 hours of supervised experiential learning experiences in foodservice management. The purpose of the learning activities and assignments is to provide the student with the opportunity to apply knowledge and skills in food service management in a health care setting. Experiences are offered in practice sites that may be off campus, under the supervision of preceptors or a licensed nutritionist and dietitian. This course may be offered face-to-face, hybrid and online. Courses can be offered in Spanish or English. Constitutes a full-time academic load for the student.

### **QUIM6011 - Theory of Inorganic Chemistry I.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 4042 OR ITS EQUIVALENT.*

Atomic structure and the electronic configuration of the elements in relation to the periodic system, theory of the chemical bond, acid-base theory, complex compounds. 10-10-94

### **QUIM6012 - Theory of Inorganic Chemistry II.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 4042 OR ITS EQUIVALENT.*

Atomic structure and the electronic configuration of the elements in relation to the periodic system, theory of the chemical bond, acid-base theory, complex compounds. 10-10-94

**QUIM6215 - Theory of Analytical Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 3025 AND 4041 OR ITS EQUIVALENT.*  
Study of theories of chemical equilibria, separations and electrochemical methods; statistics in experimental work. 10-10-94

**QUIM6225 - Theory of Instrumental Analysis.**

*Three credits. Three hours of lecture and discussion each week Prerequisites: CHEMISTRY 3025 AND 4041 OR ITS EQUIVALENT.*

Theory of analytical techniques, including ultraviolet, visible, infrared, atomic absorption, and nuclear magnetic resonance spectroscopy, mass spectrometry, gas chromatography, high pressure liquid chromatography, potentiometry, polarography, coulometry, conductimetry, refractometry, and polarimetry, and automated analysis. 10-10-94

**QUIM6235 - Instrumental Analysis Laboratory.**

*Two credits. Six hours of laboratory work per week Prerequisites: CONSENT OF THE DIRECTOR AND CHEMISTRY 6225.*

Analytical techniques and methods. Experiments to illustrate the methods whose theory has been discussed in chemistry 6225. 10-10-94

**QUIM6245 - Chemical Instrumentation.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 4042*

The basis of chemical instrumentation for analytical applications. Signals and their relation to chemical measurements. Analog instrumentation. Mathematical operations on signals, frequency discrimination, and Fourier expansions. Applications to electrochemical measurements. Digitally controlled instruments and digital measurements. A/d and d/a conversions. Interfaces with computers; application to gc-ms, gc-ft-ir, and other coupled analytical methods. 10-10-94

**QUIM6411 - Theory of Organic Chemistry I.**

*Three credits. Prerequisites: CHEMISTRY 3032 OR ITS EQUIVALENT.*

Electronic theory and principles of molecular structure, configuration and conformation, important reactions and their mechanisms. 10-10-94

**QUIM6412 - Theory of Organic Chemistry II.**

*Three credits. Prerequisites: CHEMISTRY 3032 OR ITS EQUIVALENT.*

Electronic theory and principles of molecular structure, configuration and conformation; important reactions and their mechanisms 10-10-94

**QUIM6611 - Advanced Physical Chemistry I.**

*Three credits. Prerequisites: CHEMISTRY 4042 OR ITS EQUIVALENT.*

The laws and principles of theoretical chemistry. 10-10-94

**QUIM6612 - Advance Physical Chemistry II.**

*Three credits.*

The laws and principles of theoretical chemistry. 10-10-94

**QUIM6811 - Advanced Biochemistry I.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 4042, PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Study of the chemistry and reactions of constituents of living matter and the mechanisms and regulation of



major biological processes. 10-10-94

**QUIM6812 - Advanced Biochemistry II.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 4042, PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

Study of the chemistry and reactions of constituents of living matter and the mechanisms and regulation of major biological processes. 10-10-94

**QUIM6813 - Techniques of Biochemistry.**

*Three credits. One hour of discussion and three hours of laboratory work per week.*

Basic techniques in the field of biochemistry. 10-10-94

**QUIM6825 - Biochemistry of Organized Systems. Three Credits. Three Hours of Lecture Per Week.**

**Prerequisites: Chemistry 4041, Recommended Chemistry 4055 And Permission of the professor.**

*Director. credits.*

Chemical and physical properties of macromolecules and their interactions in biological systems. Reaction mechanisms and kinetics in biochemical systems. Metabolic pathways will not be explored. 10-10-94

**QUIM6896 - Thesis Continued. None Credits. Prerequisites: To Have Completed.**

*All credits. Degree.*

This course will permit those master's degree students that have completed all courses and research credit requirements to maintain an active student status while completing their thesis work. 10-10-94

**QUIM6905 - Chemical Principles and Practices.**

*Three credits. One hour of discussion and not less than three hours of contact with undergraduate students*

*per week Prerequisites: LIMITED TO STUDENTS ENROLLED IN THE CHEMISTRY GRADUATE PROGRAM.*

Discussion of principles of chemistry with special emphasis in their application to experimental work; including evaluation of experiments. 10-10-94

**QUIM6906 - Chemical Principles and Practices.**

*Three credits. One hour of discussion and not less than three hours of contact with undergraduate students*

*per week Prerequisites: LIMITED TO STUDENTS ENROLLED IN THE CHEMISTRY GRADUATE PROGRAM.*

Discussion of principles of chemistry with special emphasis on their application to experimental work; includes evaluation of experiments. 10-10-94

**QUIM6999 - Research for Masters' Thesis.**

*One to Six credits.*

Research for master's thesis research under the supervision of a faculty counselor. A master's thesis is required. 10-10-94

**QUIM8005 - Seminar in Inorganic Chemistry I.**

*Two credits.*

Advanced seminars and discussion on recent advances in inorganic chemistry.

**QUIM8006 - Seminar in Inorganic Chemistry II.**

*Two credits.*

Advanced seminars and discussion on recent advances in inorganic chemistry. 10-10-94

**QUIM8015 - Physical Inorganic Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6012.*  
Mechanisms of reactions in inorganic systems, with emphasis on coordination compounds. 10-10-94

**QUIM8025 - Ligand Field Theory.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6612, 6012.*  
Theory of bonding and spectra in coordination compounds. 10-10-94

**QUIM8045 - Chemistry Of Organometallic Compounds Of The Main Groups Elements.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6012 AND 6412.*  
Study of structure, synthesis, and reactions of organometallic compounds.

**QUIM8046 - Transition Metal Organometallic Compounds.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6011, 6411.*  
Study of structures, syntheses, and reactions of transition metal organometallic compounds. 10-10-94

**QUIM8211 - Advanced Analytical Chemistry I.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6225.*  
Study of the application of chemical and instrumental methods to analysis of chemical products. 10-10-94

**QUIM8212 - Advanced Analytical Chemistry II.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6225.*  
Study of the application of chemical and instrumental methods to analysis of chemical products. 10-10-94

**QUIM8245 - Advanced Chemical Instrumentation.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*  
Design and operation of experimental systems in chemistry by the excitation-response principle. Application to separation, electrochemical and spectrochemical methodology. Control systems, generation of stimuli, and readout of response. Fourier transform, statistical data treatment. Use of minicomputers to implement various phases of the process. 10-10-94

**QUIM8405 - Seminar in Organic Chemical I.**

*Two credits.*  
Advanced seminar and discussion on recent advances in organic chemistry. 10-10-94

**QUIM8406 - Seminar in Organic Chemistry II.**

*Two credits.*  
Advanced seminar and discussion on recent advances in organic chemistry. 10-10-94

**QUIM8415 - Physical Organic Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6412 AND 6612.*  
The methods of thermodynamics kinetics and quantum chemistry are treated in detail and applied to mechanisms of organic reactions. Among these treated are included linear free energy relationships, substituent effects, static and dynamic steric effects, solvent effects, isotope effects, energy surfaces, electronic structure of reaction intermediates and molecular orbital symmetry arguments. 10-10-94

**QUIM8425 - Synthetic Organic Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6411-6412.*  
Classical and modern synthetic methods are reviewed and applied to problems of organic synthesis. Examples of substitution, addition, elimination condensation, and rearrangement reactions are detailed.

Specific attention to is given to homogeneous and heterogeneous catalysis and transformations. 10-10-94

**QUIM8435 - Natural Products.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6411-6412.*

Structure elucidations, partial and total synthesis and biogenesis of natural products are considered. Specific examples of terpenes, steroids, alkaloids, glucosides, proteins, lipids, and pigments are considered. The structure elucidation engages the classical methods and modern spectroscopic methods. 10-10-94

**QUIM8445 - Structural Problems in Organic Chemistry.**

*Three credits. Prerequisites: CHEMISTRY 6411-12 AND 6611-12.*

The elucidation of the structure of organic compounds and reaction intermediates. Specifically, the utility of spectroscopic methods, including ultraviolet and visible, infrared, nuclear and electron spin resonance, mass spectroscopy, and diffraction methods are discussed with applications to specific examples. 10-10-94

**QUIM8605 - Seminar in Physical Chemistry.**

*Two credits.*

Advanced seminars and discussion on recent advances in physical chemistry. 10-10-94

**QUIM8606 - Seminar in Physical Chemistry.**

*Two credits.*

Advanced seminars and discussion on recent advances in physical chemistry. 10-10-94

**QUIM8615 - Chemical Kinetics.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 4042, PERMISSION OF THE DIRECTOR OF THE DEPARTMENT.*

The theory and application of the kinetics of chemical reactions in the gas and liquid phases. 10-10-94

**QUIM8625 - Molecular Spectroscopy.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6611-6612.*

Molecular spectroscopy and quantum mechanics, with particular attention to molecular structure and symmetry, deduced from vibrational and rotational spectra. Includes the calculation of thermodynamic functions from spectroscopic data. 10-10-94

**QUIM8635 - Statistical Thermodynamics.**

*Three credits. Prerequisites: CHEMISTRY 6611-6612.*

Introduction to statistical mechanics. Study of the relationship between the thermodynamic functions of gases, liquids, and solids and their molecular structure. 10-10-94

**QUIM8645 - Quantum Chemistry.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6611-6612.*

The basic principles of quantum mechanics and their application to chemical problems. Includes wave motion, matrices, atomic and molecular structure and spectra, the quantum theory of valence, and the resonance phenomenon. 10-10-94

**QUIM8801 - Seminar in Biochemistry.**

*Four credits. Independent courses (may be taken separately).*

Advanced seminars and discussion on recent advances in biochemistry. 10-10-94

**QUIM8802 - Seminar in Biochemistry Independent Courses (may Be Taken).**

*Separately). credits.*

Advanced seminars and discussion on recent advances in biochemistry. 10-10-94

**QUIM8885 - Enzyme Catalysis.**

*Three credits. Three hours of lecture per week Prerequisites: CHEMISTRY 6812.*

The study of protein chemistry, with emphasis in conformation and its role in control of enzyme catalysis. Will include enzyme catalysis inhibition, modification, and mechanisms. 10-10-94

**QUIM8896 - Thesis Continued.**

*None credits. Prerequisites: TO HAVE COMPLETED ALL*

This course will permit those of the ph. D. Degree program students that have complete all courses and research credit requirements to maintain an active student status while completing their thesis work. 10-10-94

**QUIM8901 - Graduate Seminar.**

*Two credits. One or two hours of seminar.*

Seminars on chemical topics of current interest, based on the literature and recent research, presented by students, faculty members, and visiting scientists. 10-10-94

**QUIM8902 - Graduate Seminar.**

*Two credits. One or two hours of seminar.*

Seminars on chemical topics of current interest, based on the literature and recent research, presented by students, faculty members, and visiting scientists. 10-10-94

**QUIM8990 - Special Topics in Inorganic Chemistry.**

*One to Four credits.*

Advanced treatment of specialized topics in inorganic chemistry such as lanthanide chemistry, bio-inorganic chemistry and symmetry-based rules for inorganic reactions. 10-10-94

**QUIM8992 - Special Topics in Analytical Chemistry.**

*One to Four credits.*

Advanced treatment of specialized topics in analytical chemistry such as signal processing, interfacing, environmental analyses and electrode processes. 10-10-94

**QUIM8994 - Special Topics in Organic Chemistry.**

*One to Four credits.*

Advanced treatment of specialized topics in organic chemistry such as biosynthesis of natural products, organomercury compounds in organic synthesis, and chemiluminescence of organic compounds. 10-10-94

**QUIM8996 - Special Topics in Physical Chemistry.**

*One to Four credits.*

Advanced treatment of specialized topics in physical chemistry such as photochemistry nuclear magnetic resonance, and photophysical processes. 10-10-94

**QUIM8998 - Special Topics in Biochemistry.**

*One to Four credits.*

Advanced treatment of specialized topics in biochemistry such as membrane structure, protein synthesis, and bio-energetics, etc. 10-10-94

**QUIM8999 - Research for Doctoral Thesis.**

*One to Twelve credits.*

Students will work under the guidance of his counselor. A research work is a required for credit. 10-10-94

**COLLEGE OF COMMUNICATION AND INFORMATION****COPU6500 - Communication Theories.**

*Three credits. Three hours of lecture per week.*

Conferences for new students of the graduate program studying the main references and perspectives in communication theory. Pragmatic, social- technical, critical and political cultural approaches will be emphasized, according to theories such as the physical-mathematical theory of information, social theory based on language or the anthropological cognitive and the cultural theories, the psycho-social theory based on perception and interaction and the social psychological effects of communication, mass culture theories and the critical perspective as a manifestation of the liberal-bourgeoise. Culture. Course face-to-face, hybrid and online. Effective August 2020. This course copu 6500 substitutes copu 6501, effective August 2006.

**COPU6510 - Popular Culture and Communication.**

*Three credits. One hour and a half of conference and one hour and a half of discussion per week.*

Study of appropriation and rearticulation of mass media discourses by popular sectors of society. Analysis on the way media products represent a collective memory and cultural trajectory. In depth analysis of mass media and culture genres texts and research of sociocultural dynamics and historical processes they represent. 13-08-02

**COPU6515 - Media Ownership and Power Structure.**

*Three credits. One hour and a half of conference and one hour and a half of discussion per week.*

Study of the relationship between media conglomerates, the economy and the national and global politics. Media industry; its structure within historical, social, political, and economic developments. Emphasis on the connection between media structure with social, political and economic organizations. 13-08-02

**COPU6517 - Media Culture and Structures.**

*Three credits. Three hours of lecture per week.*

Study of cultural processes and their relation to concepts such as discourse, ideology and mediation. Analysis of the primacy of communication structures, especially in the new multimedia context as the core of contemporary cultural processes. Evaluation of cultural products stemming from modes and of emerging communication structures, such as digital mediation, convergence, and political economy of information. Course face-to-face, hybrid and online. Effective August 2020.

**COPU6535 - Legal Aspects of Journalism.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Discussion and analysis of the legal doctrines based on legislation, jurisprudence and federal and Puerto Rican rules and regulations concerning the practice of journalism. 21-01-03

**COPU6555 - Radio and Television Journalism.**

*Three credits. One and a half hour of lecture and one and half hour of laboratory per week*

Electronic news editing framed and produced within the techniques, various formats, communication law, and standards as specified for those electronic media. 10-10-94

**COPU6556 - Journalism in Public Affairs.**

*Three credits. Three hours of lecture per week Prerequisites: OERMISSION OF THE DIRECTOR OF THE*

*GRADUATE DEPARTMENT*

Processing of information on trials, public hearings, legislation, press conferences, government issues, and public policy. (c) 10-10-94

**COPU6557 – News concepts and Newswriting.**

*Three credits. Three hours of lecture per week*

Intensive course with conferences and workshop on news concepts and writing; analysis of various journalistic styles; newswriting for various media (c) 10-10-94

**COPU6559 - Advanced Editing Techniques.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE GRADUATE PROGRAM*

Theory and practice of advanced editing techniques; correcting copy, writing headlines, editing photos and other illustrations for publication; making layouts for newspapers and magazines. Analysis of various criteria for selecting, editing, laying out, and publishing written or graphic material. 10-10-94

**COPU6576 - Journalism Theory.**

*Three credits. One hour and a half of conference and one hour and a half of discussion per week.*

Study of the history of the media, the beginning and development of the written and electronic press, the process of the journalistic production and the news as social construct. The aspects of social responsibility of the journalist and the journalistic ethics are also analyzed. 13-08-02

**COPU6578 - Journalism Theory and Ethics.**

*Three credits. Three hours of lecture per week Prerequisites: COPU6500 COPU6667*

Analysis of the field of journalism stemming from the historical referents fundamental to processes of news production and of the evolution of the press in light of the communicative ecosystem of digital society (media convergence, postindustrial journalism, transmedia narratives). Reflection on social responsibility of the press, ethics in journalism and regulations and legislation relevant to the field.

**COPU6607 - Television Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR OF THE GRADUATE PROGRAM*

Design and development of some research topic in the area of television. The students may fulfill this research requisite as a group or individually. 10-10-94

**COPU6655 - Audience Studies.**

*Three credits. Three hours of lecture per week Prerequisites: PUCO 6650 OR AUTHORIZATION OF THE PROFESSOR*

Studies of audience behavior and measurement of audience characteristics from both theoretical and practical perspectives applied to mass communication. The major focus on designing and conducting a survey, from questionnaire design to data analysis. (c) 10-10-94

**COPU6656 - Critical Analysis of Mass Media Messages.**

*Three credits. Three hours of lecture per week*

Study of different perspectives to carry out the critical analysis of the messages produced by mass media. It includes how meaning is produced in a text and the effects generated through the meaning producing dynamics. 10-10-94

**COPU6660 - Independent Studies.**

*Three credits. Prerequisites: CONSENT OF THE DIRECTOR OF THE GRADUATE PROGRAM*

Graduate students may select with their advisor the area of study in which work will be done. This course has to be authorized by the director of the school. (c) 10-10-94

**COPU6661 - Independent Studies.**

*Three credits. Research work by agreement Prerequisites: HAVE COMPLETED A RESEARCH STUDY IN PUB. COM. 6660*

This is an independent study in communications. 10-10-94

**COPU6665 - Advanced Research in Communication.**

*Three credits. Three hours of lecture per week Prerequisites: PUCO 6650 AND/OR PERMISSION OF DIRECTOR*

In-depth analysis of scientific research methods and mass communications phenomena with emphasis on the practical aspects of the research process. Students are expected to carry out individual research projects under the professor's supervision. 10-10-94

**COPU6667 - Perspectives and Methodology of Media Research.**

*3 credits. One hour and half of lecture and one hour and half of discussion per week.*

Examination of the main perspectives and methodologies for the study of communication and their relation to their theoretical foundations. Discovery of research areas and methodological focus. Knowledge of the skills required for conducting a research study or project in the field of communication at the graduate level.

Course face-to-face, hybrid and online. Effective August 2020.

**COPU6675 - Production Symbolic, Reception and Cultural Consumption.**

*Three credits. One and a half hour of conference and one and a half hour of*

Three credits. One and a half hour of conference and one and a half hour of

**COPU6695 - Thesis Proposal Seminar.**

*Three credits. Three hours of seminar per week Prerequisites: ENTRANCE EXAMINATION APPROVAL.*

Intensive development of a thesis or project proposal, using all the elements that constitute a proposal. 13-08-02

**COPU6697 - Research Experience in Diverse Modalities.**

*Three credits. Three hours of thesis per week Prerequisites: COPU6667 AND AUTHORIZATION OF THE GRADUATE PROGRAM.*

Research experience is an exercise through which students demonstrate command of analytical skills, critical thinking and theories and methodologies relevant to the field of communication. This exercise can take one of two forms: a) publishable article in refereed journal in the field; b) creative/professional project, in the case of professional/creative project, the student will produce a narrative project (depending on the modality adopted) that accounts for the development of the required components of the experience, accompanied by a prototype of creative/professional product central to the project. Constitutes full academic load for the student.

**COPU6698 - Continuation of Research Experience in Diverse Modalities.**

*No credits. Three hours of thesis per week Prerequisites: COPU 6697*

Continuation of the research experience in diverse modalities for students requiring additional time in the development of their projects, which will be presented at the end of the course. Constitutes full academic load for the student.

**COPU6700 - Thesis.**

*No credits. Prerequisites: PERMISSION OF THE DIRECTOR OF THE SCHOOL*

A complete master's degree thesis or an equivalent creative project. (c) 10-10-94

**COPU6705 - Communication Seminar I.**

*Three credits. Three hours of seminar per week.*

Study of topics and wide scope of problems and theoretical and methodological aspects of communication. The course could be repeated with different subject. 13-08-02

**COPU6706 - Communication Seminar II.**

*Three credits. Three hours of seminar per week Prerequisites: COPU 6501 COPU 6650*

Study of topics and wide scope of problems dealing with aspects of symbolic and cultural production of communication. The course could be repeat with different subject. 13-08-02

**COPU6707 - Communication Seminar III.**

*Three credits. Three hours of seminar per week Prerequisites: COPU 6501 COPU 6650*

Study of topics and wide scope of problems dealing with aspects of sociology, politics and economics of communications. The course could be repeat with a different subject. Course face-to-face, hybrid and online. Effective August 2020. 13-08-02

**COPU6725 - Journalism Seminar I.**

*Three credits. Three hours of seminar per week Prerequisites: COPU 6501, COPU 6650*

Study of cultural subjects and problems and production of the journalism. The course could be repeated with different subject. 13-08-02

**COPU6726 - Journalism Seminar II.**

*Three credits. Three hours of seminar per week Prerequisites: COPU 6501, COPU 6650*

Study of social, political and economic subjects and problems of journalism. The students will present a study proposal with a main theme and specific subjects to discuss them in detail. The course could be repeated with different subject. Course face-to-face, hybrid and online. Effective August 2020. 13-08-02

**COPU6800 - Thesis.**

*Six credits. Prerequisites: PERMISSION OF THE DIRECTOR. TO HAVE APPROVED 39*

A master's degree thesis or an equivalent creative project. 10-10-94

**COPU6895 - Thesis Continued.**

*No credits. Prerequisites: COPU 6700*

To continue the work in the thesis - so that students, may use all the facilities of the university of Puerto Rico. 10-10-94

**CBIB6501 - Introduction to Library and Information Science.**

*Four credits. Four hours of lecture per week Prerequisites: B.A.*

An introduction to librarianship as a profession, to the library as an organization, and to information science. A panoramic view of the development and evolution of the library; education for librarianship; purpose and function of the various types of libraries; basic principles of management and of information science. 10-10-94

**CBIB6526 - Advanced Subject Cataloging.**

*Three credits. Three hours of lecture per week Prerequisites: LISC 6520*

In-depth study of the classification systems and subject heading lists covered in LISC 6520 (Dewey decimal



classification and library of congress classification) and other classification systems (universal decimal classification and colon classification) comparative study of the different systems and the impact of modern technology on their use. 10-10-94

**CBIB6592 - Research Seminar.**

*CBIB6592 - Research Seminar. Prerequisites: LISC 6501, 6503, 6520, 6531, 6591-92.*

This course will allow students to development the necessary skills for preparing and defending research proposals.

**CBIB6993 - Independent Study in Library Science.**

*CBIB6993 - Independent Study in Library Science. Prerequisites: LISC 6501, 6503, 6520, 6531, 6591-92.*

Intensive study of a topic or problem in library and information science under the supervision of a faculty member. Research and written final report are required.

**CBIB6995 - Special Topics in Library Science.**

*CBIB6995 - Special Topics in Library Science. Prerequisites: LISC 6501, 6503, 6520, 6531, 6591-92.*

Advanced seminar dealing with areas of current interest in library and information science. Course duration depends on number of credits. May be repeated for credit.

**CBIB6997 - Workshop in Library Science.**

*CBIB6997 - Workshop in Library Science. Prerequisites: 6501, 6503, 6520, 6531, 6591-92.*

Intensive study of one aspect of library and information science under the leadership of an authority in the field. Course duration depends on number of credits. May be repeated for credit.

**CINF6010 - Diagnostics of Information Needs, Clients And.**

*Services credits.*

Services credits.

**CINF6015 - The Public Library; Its Clients and Services.**

*Three credits. Three hours of lecture per week Prerequisites: CINF 6000.*

This course discusses the history, objectives and functions of the public library, as a essential element in the information world and an integral of the community which it serves. Its main elements are presented and ways to administer them efficiently. Among these are: its clients in a multicultural, services and cooperative arrangements, public library systems, the public librarian and trends and innovations in this field. Practical experiences are also included. August 15, 2000.

**CINF6016 - The Development of Information Skills.**

*Two credits. Two hours of discussion per week.*

This course discusses the process and strategies through which the information specialist develops in his or her clients the information and critical thinking skills necessary to become a lifelong learner. It also includes the techniques used to determine if the skills were achieved. Practical experiences are included. August 15, 2000.

**CINF6017 - The School Library Programs Integrated to The Curriculum.**

*Three credits. Three hours of lecture per week Prerequisites: CINF 6413 AND 6000.*

This course will describe the objectives and programs offered by the school library. Several planning and organization strategies will be discussed, including their integration to the school's curriculum. Practical experiences in the implementation, development and evaluation of programs and its activities will be offered. Course distance and online modalities. August 15, 2000.

**CINF6019 - The Role of The Librarian in Higher Education.**

*Three credits. Three hours of discussion per week.*

The course will emphasize the role of the librarian within the higher education context. It will describe briefly the origins of the university during the medieval period; its development in different parts of the world with emphasis on how these trends influenced the evolution and development of higher education in Puerto Rico. It will include the administrative responsibilities of the academic librarian in post-secondary education institutions, public and private. August 15, 2000.

**CINF6105 - Production and Use of Information in The Humanities.**

*Three credits. Three hours of discussion per week*

The structure of information in the different fields of the humanities, including religion, philosophy, mythology, languages, literature, music, and other performing arts and visual arts. Access to this information, important tools. Specialized information services in the humanities. Uses and users of information in the humanities. August 15, 2000.

**CINF6107 - Production and Use of Information in Social Sciences.**

*Three credits. Three hour of lecture per week.*

The course deals with the development and trends on these sciences. Analysis of the research and professional methodologies used in social sciences. Challenges that information resources (created and used by social sciences) represent in that area. Analysis of these challenges. Fundamental aspects of the development, management, organization, and diffusion of these resources. Library, information centers and services for social sciences. August 14, 2000.

**CINF6109 - Production and Use of Business and Economics Information.**

*Three credits. Three hours of discussion per week.*

Study of information sources for business and economics, such as economic and demographical statistics. Discussion of relevant sources for different areas of industry, such as transportation, construction, and tourism, particularly those pertaining to Puerto Rico, the United State and other Caribbean countries, within the context of each sector. Printed and electronic sources are discussed, as well as professional organizations, trades association, research centers and main publishers. August 15, 2000.

**CINF6110 - Production and Use of Legal Information.**

*Three credits. Three hours of discussion per week.*

Study of the most important legal sources of information of the United States, Puerto Rico and Spain, with special emphasis on their provenance and context, through the analysis of the legislative, executive and judicial processes. The course also covers legal research, publishers of printed and electronic sources of information, types of law libraries, and the role of the information specialist. August 15, 2000.

**CINF6115 - Production and Use of Information on Latin America and The Caribbean.**

*Three credits. Three hours of lecture per week.*

The course deals with the development and trends on the area of Latin America and Caribbean information. Evaluation, analysis of the research and professional methodologies used in the area. Challenges that information resources created and used represent and the analysis of these challenges. Fundamental aspects of the development, management, organization, and diffusion of the information and resources. Library, archives, information centers and the information services for the studies on Latin America and the Caribbean. August 14, 2000.

**CINF6117 - Production and Use of Legal Information (advanced).**

*Three credits. Three hour of lecture per week Prerequisites: CINF 6110*

Study of information sources in specific areas of law, such as environmental, labor, taxes, and securities law, particularly those pertaining to Puerto Rico and the United States. Study of sources for major legislation, and regulations, source characteristics, differences and similarities. August 14, 2000.

### **CINF6118 - Production and Use of Information in Science and Technology.**

*Three credits. Three hour of discussion per week.*

Study of the development, the methodology and the present tendency of technology and science; the process and problems of investigation, the information resources in its diversity of formats, the habits and needs of information of scientists and technologists and the education of information professionals specialized in science and technology. August 15, 2000.

### **CINF6119 - Production and Use of Government Information.**

*Three credits. Three hours of discussion per week.*

Introduces to the special nature and scope of government production and use of multitype information resources as a basic information and reference material for different clientele. Pinpoints to the availability of and access to such information in the electronic age. Presents governmental infrastructures and corresponding units, at federal, state, local, regional and international levels, in order to know the documentation generated. Considers how to evaluate, select, acquire the documentation, organize and develop such collections, and how to elaborate products with added value, to satisfy the clientele needs. August 14, 2000.

### **CINF6125 - Information Resources for Children and Young Adults.**

*Three credits. Three hours of discussion per week Prerequisites: CINF 6000 AND 6010.*

The process of building a school library collection, including knowing the customers, users and community. The preparation of the collection development policy statement. Selection, evaluation and weeding processes. The reference collection, and information resources (basic references materials). Preservation and conservation, resource sharing. Important topics in this field, including copyright, access to information, censorship and intellectual freedom. The book trade. Acquisitions, vendors and suppliers, automation of acquisitions. August 15, 2000.

### **CINF6127 - Information Sources of International Organizations.**

*Three credits. Three hours of discussion per week.*

Study of the information sources of nongovernmental international organizations and their agencies. Study of their creation and development through the analysis of the functions and structure of the creating organization. Selection and acquisition of information sources are discussed. Includes organizations such as the United Nations, the Association of Caribbean States and Caricom. August 15, 2000.

### **CINF6208 - Computerized Systems for Integrated Document Management Systems.**

*3 credits. Three hours of discussion per week.*

In this course students will learn the basics of the technologies available to manage documents in an integrated way using computerized systems. The complexity of the operation models of many organizations requires the implementation of technologies that simplify and automate the processing of transactions and the flow of information. Information specialists must know the technologies needed to organize and retrieve digital information, manage the flow of information in document management systems, and manage the electronic documents of an organization. The course will be offered in hybrid mode. Face-to-face, hybrid and online course. Effective January 2021.

### **CINF6209 - Document Organization and Management and Access to Information.**

*3 credits. Three hours of discussion per week Corequisites: CIN6705*

This course examines concepts and practices related to the organization handling of documents in archives, libraries and documentation centers and other organizations. It includes the study of access systems and methods of describing and disseminating information.

### **CINF6215 - Introduction to Designing Computerized Data Bases.**

*Three credits. Three hours of discussion per week.*

The students will learn the basic conceptualization of computerized data bases. They will apply this knowledge by programming and designing data bases with its corresponding documentation. They will learn the skills in the context of their work as information specialists, this will enable them to design or evaluate data basis for libraries and other information centers. August 14, 2000.

### **CINF6216 - Technical Services in Law Libraries.**

*Three credits. Three hours of discussion per week.*

Study of the different phases of technical-collection development and management, organization of information resources in law libraries. The characteristics of printed and electronic legal information resources, the legal publishing industry, and the influence of information technology on the development and management of collections. August 14, 2000.

### **CINF6217 - Advanced Designing of Computerized Data Bases.**

*Three credits. Three hours of discussion per week.*

The students will have the opportunity to deepen in the conceptualization and programming of computerized data bases. Each student will develop an advanced project by designing and programming a data bases with its corresponding documentation. They will learn these skills in the context of their work as information specialists, this will enable them to design or evaluate data bases for libraries and other information centers. August 14, 2000.

### **CINF6300 - Information Technologies I.**

*Two credits. Two hours of discussion per week.*

Introduction to information technologies, the value of information in different eras, the basic elements of those sciences, their development and projections. August 14, 2000.

### **CINF6309 - Internet as a Curricular Resource.**

*One credits. One hour of discussion per week Prerequisites: CIN6000.*

Introduction to the internet and its browsers. Will provide the librarian the opportunity to learn how to carry out research using different local and international sources and integrate them to classroom related activities. The course includes conference sessions, demonstrations and laboratory sessions using computers. Course distance. August 14, 2000.

### **CINF6405 - Leadership: Theories, Styles and Realities.**

*One credits. One hour of discussion per week Prerequisites: CIN6000 AND 6010.*

Leadership is a special ability that can be taught, learned and developed. Its importance is emphasized in organizations and professions, especially in library and information science. Besides knowing the styles, theories and realities of leadership, the students will be able to study other leadership competence like communication, decision making, conflicts solving and teamwork. August 14, 2000.

### **CINF6410 - Developing and Consulting Practice on Information Services.**

*Three credits. Three hours of discussion per week.*

Students will learn in this course the basics of setting up a consulting practice on information services and

systems. They will have the opportunity to apply these principles in the development of project for a client. August 14, 2000.

### **CINF6415 - Strategic Planning.**

*One credits. One hour of discussion per week Prerequisites: CINF 6000*

This workshop will familiarize the student with the procedures and techniques of strategic planning. August 14, 2000.

### **CINF6416 - The School Library.**

*Three credits. Three hours of discussion per week.*

The course discusses the objectives and functions of the school library, as an essential element in the information world and an integral part of education. Its main elements are presented and ways to administer them efficiently. Practical experiences are included. Course distance. August 14, 2000.

### **CINF6417 - Records Manager.**

*3 credits. Three hours of discussion per week.*

This course introduces the effective administrative management of a document manager in theory and practice with special emphasis on the reality of Puerto Rico, the United States and Latin America. The organizational structure of the organization unit, the importance of planning, managing and evaluating systematically. It includes the study of the life cycle of the document and its information, creation, evaluation and retention. In addition, the description, organization, storage, prevention and management of disasters, dissemination and use, disposition or preservation of documents and the parameters that govern these decisions are considered. The planning, development and evaluation of public projects and strategies is presented and studied. It requires a laboratory and a project for individual or collective work. This course will be offered in a hybrid modality.

### **CINF6418 - Information Services and Technology in Higher Education in Puerto Rico.**

*Three credits. Three hours of seminar per week.*

This seminar focuses on issues related to higher education in Puerto Rico and information services provided. Through the study of strategies and specific cases we inquire into the uses of technology for learning in classrooms and libraries. Although the seminar is mostly focused on colleges and universities, we also examine community colleges and other postsecondary institutions of learning and training. As we study the role of "disruptive technology" in higher education we try to understand its contribution to more effective higher learning and information provision. Policies and procedures for information services in these contexts will allow us to a better understanding of technology integration models as they affect current public policies. Face-to-face, hybrid and online course. Effective January 2021.

### **CINF6419 - Archives: Organization, Development and Legislation.**

*Two credits. Two hours of discussion per week.*

The course deals with; analysis of evaluation, selection and organization of archives public and private; the elaboration of development and administrative policies for archives public and private and the specification of the administration of formats or archives public and private. The archives public and private development will be done within a historical perspective. Face-to-face, hybrid and online course. Effective 2021. August 14, 2000.

### **CINF6426 - Library Administration.**

*Three credits. Three hours of discussion per week.*

Introduce the student to diverse administrative environments in academic and public libraries and information/documentation centers; and offers the opportunity to acquire knowledge and develop skills to

select the adequate and effective strategies to continuously plan, organize, and select the adequate and effective strategies to continuously plan, organize, develop, and evaluate the different types of information units, facing the 21st century. Points to the development of proactive attitudes to manage change, solve problems and responsible decision-making. Stresses the importance for the integration and group work among the personnel in the information unit. Face-to-face, hybrid and online course. Effective January 2021. August 14, 2000.

**CINF6427 - Management of Information as A Strategic Source.**

*Three credits. Three hours of discussion per week*

In this course the strategic value that information plays in the operation of organizations will be emphasized. It will address the processes related to identifying, classifying and evaluation information resources. Usage of these resources by different organization components, as well as their results, will be examined. Based upon this examination, effective information management strategics will be developed. August 14, 2000.

**CINF6429 - The Special Library.**

*Three credits. Three hours of discussion per week.*

Study of special libraries and information centers in their various settings. Discussions of the historical contemporary development, including the salient aspects of special libraries, such as administration, types of users, collection development in print and electronic formats, user services, professional ethics and the role of the information specialist. August 14, 2000.

**CINF6500 - Creation of Informative Products in Multimedia (basic).**

*Two credits. Two hours of lecture per week.*

Introduction of modern technologies for the presentation of visual and nonvisual information, using computerized methods and other technologies. This course will allow the students to develop visual and technological literacy, enriching their capacity to communicate and interpret ideas. They will apply these concepts and skills by producing and designing educational and informative presentations. August 14, 2000.

**CINF6507 - Conservation, Preservation and Document Restoration Three Hours of Discussion Per.**

*CINF6507 - Conservation, Preservation and Document Restoration Three Hours of Discussion Per.*

This is an introductory course to the administration and preservation services in information centers. It presents a panoramic view of the fundamental aspects of preventive conservation- mainly in libraries and archives- and establishes evaluation parameters for decision-making about the intervention of documents by affiliated professionals. The course addresses the complexities in planning for preservation by taking into account the intrinsic needs of the most common media, in accordance with the agents of deterioration that usually affect the documentary collections in the tropics. The course will be offered in hybrid mode. Face-to-face, hybrid and online course. Effective January 2021.

**CINF6601 - Thesis.**

*Three credits.*

Realization of an investigative work (applied or theoretical) under the direct supervision of a counselor. August 14, 2000.

**CINF6602 - Thesis Continuation.**

*No credits. Prerequisites: CINF 6601*

Research work (applied or theoretical) continued under the direct supervision of a thesis counselor. August 14, 2000.

**CINF6705 - Information Knowledge and Society.**

*Three credits. Three hours of lecture per week.*

Study of the evolution in the processes of creating, recording, processing and transmission of information and knowledge from the emergence of the first civilization to the present, aimed at students of library and information sciences, to having a general understanding and logical about the characteristics and importance of the flow of information and knowledge with special emphasis on contemporary society. We discuss epistemological development and discipline, the functions of libraries and other information as well as the role of the information professional in society. May be offered face to face, online and hybrid modes.

### **CINF6706 - Research Methods in Information Science.**

*Three credits. Three hours of discussion per week Prerequisites: CINF6808 Corequisites: CINF6705*

It offers students the opportunity to learn the theoretical foundations of scientific research and its application in library science, information science and knowledge, skills and appreciation for the investigation to begin in this activity and contribute to the development of an interdisciplinary field. It will provide opportunities to explore various techniques of quantitative and qualitative research. Students will develop the theoretical and methodological bases apply learning to go ahead as its curriculum. Be analyzed, the need and value of research in library and information science, as well as benefits in the search for solutions to specific problems in society. Includes the study of new trends in research, such as evidence-based practice. May be offered face to face, hybrid and online modalities.

### **CINF6707 - Information Technology and Knowledge.**

*Three credits. Three hours of lecture per week Corequisites: CINF6705*

This course for students of information sciences introduced to information and communication technologies for the management of information and knowledge. It addresses the processes of technological convergence and the nature of the digital technology industry. Includes the study of computer technologies, networks, databases, internet, web 2. 0+ and other emerging technologies. Students will have opportunity to become familiar with various applications and techno- logy platforms used and programmed in units of information and knowledge to allow you to enter the workforce with extensive knowledge in the field. It could be offered in hybrid mode to extend the student's experience with virtual learning technologies. May be offered face to face, hybrid and online modalities.

### **CINF6708 - Basics of The Organization of Information and Knowledge.**

*Three credits. Three hours of lecture per week Corequisites: CINF 6705*

Three credits. Three hours of lecture per week Corequisites: CINF 6705

### **CINF6800 - Clinical Experiences in Information Services.**

*One credits. One hour of workshop per week.*

The student will be assigned to a library, documentation and information center or an archive for three hours, once a week. He/she will work under the supervision of a professional librarian or an information specialist in one or two areas of service previously selected with the clinic supervisor professor. August 14, 2000.

### **CINF6805 - Clinical Experiences at The School Library.**

*One credits. One hour of workshop per week.*

This course has as its main purpose to provide students with practical experiences in school library services integrated to the school's curriculum. The students will have the opportunity to present activities related to the information and critical thinking program and to the reading orientation program, within the mentioned context. Other library services will also be offered by the students. Course distance and online. August 14, 2000.

**CINF6806 - Organization and Retrieval of Information and Knowledge (basic).**

*Three credits. Three hour of lecture per week Prerequisites: CINF 6705,6706,6707,6708*

Discussion and analysis of the principles of the organization of information, in theory and practice, as an important factor for effective access and use. Through lectures, discussions and practical, students aspiring to the degree of master in science in information will be presented to examine, in depth, industry standards for cataloging and documentary description, selection of access points, including the descriptors and subject headings, and classification systems. Study the information storage integrated into computerized databases. Evaluate the importance of knowing the community they must serve to organize information; facilitate rapid access and use and meet their information needs. Reflect on the importance of the information specialist in the organization of information and the need to develop a proactive and collaborative so that students can play in the workforce with the knowledge and basic skills involved. Course distance and online.

**CINF6807 - Product and Services References.**

*Three credits. Three hours of discussion per week Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708*

Introduction to the use of reference sources and the organization and provision of reference services in libraries and other information agencies. Aimed at students. Aimed at students of information science, with the purpose of being able to serve as reference assistants or make decisions for the organization of reference service in different contexts. Policies are discussed reference, the formation of a reference collection, and types, uses and criteria for evaluating sources. It addresses the use of technology in virtual reference service and ethics for good job performance. Face-to-face, hybrid and online course. Effective January 2021.

**CINF6808 - User Studies and Information Needs.**

*Three credits. Three hours of lecture per week Corequisites: CINF6705 CINF6706*

Introduction to the concepts, methods and techniques related to user studies and information needs assessment. It is considered so important to study the information behavior and information use. We analyze the evolution of user studies and some of the models used for the study of information behavior. We describe the needs and habits of use of information from different user communities in the context of different pieces of information. It emphasizes the importance of these studies for library practice focuses on the needs of users and the research activity that generates the evidence needed for the practice. Course distance learning.

**CINF6809 - Selection and Acquisition of Information Resources and Knowledge.**

*3 credits. Three hours of lecture per week Prerequisites: CINF6706,6707,6708 CINF6806, 6807.*

This course presents students in the information sciences program, to the process of collections development, including the preparation of the policy for the development of the collection. In the course, issues of resources selection, censorship and intellectual freedom as well as the evaluation and the discarding collections and the sharing of information resources are discussed. Negotiation of licenses for use, maintenance, preservation and conservation of collections are also studied. The book market and the information industry as well as related organizations and associations, awards and information sources in this area are also considered. Students will be exposed to the processes of purchase, exchange, donations and the legal deposit and examines the role of vendors and suppliers of information resources. Automation procedures and applications are presented and evaluated as work models. This course can be offered in both modalities: face-to-face and distance learning.

**CINF6810 - Organization and Retrieval of Information and Knowledge (advanced).**

*Three credits. Three hours of lecture per week Prerequisites: CINF6806, CINF6705, CINF6706, CINF6707, CINF6808*

Discussion and analysis of deep and extensive



**CINF6815 - Information and Technological Skills.**

*3 credits. Three hours of lecture per week Prerequisites: CINF 6705, 6706, 6707, 6708.*

In this course, the process and strategies for the development of informational and technological competences are discussed. Addressed to students of library and information sciences, in order for them to be able to design a program of information skills and critical thinking. It also exposes students to practical experiences applying different models. This course can be offered in both modalities: face-to-face and distance learning.

**CINF6816 - Management of Information Services.**

*Three credits. Three hours of discussion per week Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708.*

Lecture and discussion on the basics of library management and documentation and information centers, aimed at students of careers related to information so they can make informed decisions on their future areas of work. It includes terminology, planning organization, development, innovation and continuous assessment. We discuss concepts of management, leadership, human resources, physical facilities, technology applications, finance and services.

**CINF6905 - Foundations of Knowledge Management.**

*Three credits. Three hours of lecture per week Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708*

Introduction to the discipline and the professional field of knowledge management. We study the concepts and major theoretical models and addresses the most common strategies for managing knowledge in organizations and companies, in order to develop a deeper understanding about this new discipline the course provides students of masters in information science with emphasis on knowledge management a holistic approach to the principles and practices that affect this field.

**CINF6906 - Techniques and Technologies for Knowledge Management.**

*Three credits. Three hours of lecture per week.*

In this course oriented for information science students, discusses practical strategies and techniques to enhance the intellectual capital in organizations and companies. It addresses the processes and technologies required to implement the techniques and examples are discussed in various contexts. Students drills for design and implementation of techniques and strategies used in the discipline in order to equip them with the basic skills to enable them to function in the workplace. Face-to-face, hybrid and online course. Effective January 2021.

**CINF6907 - Knowledge, Communication and Organizational Learning.**

*Three credits. Three hours of lecture per week Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708.*

This course covers the generation of knowledge in organizations from discovery and capture to their communication and exchange in its tacit and explicit. Emphasis on communication and leadership strategies that foster organizational learning and the development of a culture of collaboration with technology support. Course face-to-face and hybrid.

**CINF6908 - Innovation: Idea to Implementation:/commercialization Cycle.**

*Three credits. Three hours of lecture per week.*

This course aimed at students of information sciences, discusses dimensions and processes of knowledge creation and protection of intellectual property and in organizational innovation initiatives. Identify strategies and techniques to stimulate innovation and best practices in order to increase the competitiveness of the organization or company.

**CINF6995 - Special Topics in Information Science and Technology.**

*One to Three credits. Prerequisites: BASIC COURSES.*

Advanced seminar dealing with area of current interest in the information field. Course duration depends on number of credits. May be repeated for credit. Theme: metadata for managing digital resources. P. H. Online. Theme: introduction to digital curatorship. P. H. Online. August 14, 2000.

### **CINF6996 - Independent Study.**

*One to Three credits. Prerequisites: BASIC COURSES.*

Intensive study of a topic or problem in the information field under the supervision of a faculty member. Research and written report are required. August 14, 2000.

### **CINF6997 - Workshop in Information Science and Technologies.**

*One to Three credits. Prerequisites: BASIC COURSES.*

Intensive study in an aspect of library and information science under the supervision of an expert in the field. Duration may vary according to the credits. It may be repeated with credit. August 14, 2000.

### **CINF6998 - Research Seminar Application of Knowledge Seminar (capstone).**

*Three credits. Three hours of seminar per week Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708.*

The capstone is for students in the master's program. It is an exercise in the application of knowledge in which students are integrated into the research agenda set by the teachers. The process can be done in one or several stages: academic research projects could include, among others, the literature review, instrument design, fieldwork, analysis and evaluation of results. Projects creating solutions to problems of information and knowledge could include, among others analysis of results and innovations, documentation of best practices and case studies. The course is designed to produce a presentation or publication in which they report the results of research or creative project. Course distance learning.

## **COLLEGE OF SOCIAL SCIENCES**

### **ADPU6005 - Government and Public Administration.**

*3 credits. Three hours of lecture per week.*

Analysis of the development of the field of public administration and the redefinition of areas of study. Examination of the categories employed in the interdisciplinary approach and the nature of the concepts which generate synthesis. Use of ideal types. The study of public policy theory in its relationship with public administration. Analysis of systems and organization theory. Theories on public policy are discussed. Special attention is given to ethics, diversity, accountability and merit systems as core values of our program. This course can be offered face-to-face or hybrid.

### **ADPU6006 - Research Techniques in Public Administration.**

*3 credits. Three hours of lecture per week.*

Social research techniques and designs for gathering, analyzing, presenting and evaluating data in public administration. The course will pay special attention to the researcher's ethics in using suitable qualitative and quantitative methods according to the stated objectives. A main focus will be the discussion of methodological tools for program and policy decision-making.

### **ADPU6007 - Social Basis for Administrative Behavior.**

*Three credits. Three hours of lecture per week*

Analysis of the influence of the environment, cultural and social values on administrative behavior. Consideration of the significance of their influence in explaining the problems involved in the administration of social change: the basis for authority in traditional societies, elites and their ideologies, political parties and the process of change, and the programming and administration of organizations related to social change, in areas such as education, health, planning and social services. Special emphasis is given to the

comparative approach. (c) 10-10-94

**ADPU6008 - Ethics, Law and Public Administration.**

*3 credits. Three hours of lecture per week.*

Public interest, ethics and public values as the basis of public policy and law in a democratic system. Judicial principles governing bureaucratic behavior in Puerto Rico and the United States, including basic political and constitutional theories, techniques and procedures used by administrative and judicial bodies, relationships between administrative bodies and judicial review of administrative actions. Studies of investigations, supervisions, accusations, declarations, counseling and informal adjudications as well as regulations. Ethics law and jurisprudence in relation to government are discussed.

**ADPU6009 - Budget Process in Public Administration.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

This course analyzes the economic, technical, and judicial aspects of the preparation of budgets in the public sector and its social implications. Financial and efficiency aspects of the allocation of resources are discussed. The government's budget process and organization of Puerto Rico budget document is examined at the state, federal, and municipal level.

**ADPU6015 - Human Resources Administration and Labor Relations.**

*3 credits. Three hours of lecture per week.*

Required course in the special area of human resource and labor relations administration. Study of the foundation of human resources administration in the public service; merit system, its methods and techniques. Discussion and analysis of public service reforms in Puerto Rico and other democratic jurisdiction during the past decades; and its coexistence with collective bargaining systems.

**ADPU6016 - Classification Systems.**

*Three credits. Prerequisites: ADPU 6015*

Study of the various ways for evaluating positions, methods employed to obtaining information for the classification, the preparation and administration of a classification plan and the participation of employees and agency heads, the effect of the country's state of development and its instructional systems on the plan. The technique for writing class specifications, the balance that must exist in the plan, the unity of the plan and its relation to other techniques of personnel administration. Difference between private and public systems. 10-10-94

**ADPU6017 - Leadership and Supervision.**

*3 credits. Three hours of lecture per week.*

Course required for the special area of public management. Fundamentals of human behavior in public organizations. Emphasis is given to the study of the roles and responsibilities of supervisors and leaders toward their agencies, employees and the society.

**ADPU6018 - Training.**

*Three credits. Three hours of lecture per week*

Concepts and methods used in the design of training programs, the determination of needs and the evaluation of results. Development of training policies. Particular attention to problems and strategies involved in the design and administration of programs for the executive. (c) 10-10-94

**ADPU6019 - Collective Bargain Administration and Arbitration of Complaints and Grievances.**

*3 credits. Three hours of lecture per week.*

Legal doctrines regulating labor relations and their role as instruments for social policy. Special attention is

given to develop manager's skills in bargain agreement's administration and grievances procedures as means to solve conflict.

### **ADPU6020 - Seminar: Research on Human Resources and Labor Relations.**

*3 credits. Three hours of seminar per week.*

Course required for the specialization in human resources and labor relations administration. Focused on the development of an investigation on contemporary issues and controversies of the public service. The course offers the opportunity to deepen in current issues related to ethics and corruption; productivity, work climate, merit, job security, and acquired rights, among others.

### **ADPU6025 - Recruitment and Selection of Public Employees.**

*3 credits. Three hours of lecture per week.*

Closed and open careers and their implications for the government philosophy study and analysis of recruitment methods and their effectiveness; the establishment of minimum qualifications in order to maintain recruitment levels and to improve the quality of public service; examinations and their administration; certification; rigid gradation system vs. Total certification; notification of eligibility; the appeal and review processes. Study of regulated professions, the minimum knowledge guarantee concept vs. Competence.

### **ADPU6027 - Compensation Plans.**

*Three credits. Three hours of lecture per week Prerequisites: PUAD 6015*

Analysis of the different compensation systems, the educative and social governmental policy as it is reflected in its compensation plans, value concepts in the fixing of minimum and maximum standards. Compilation of facts, establishment of scales and its coverage, rules for the administration and maintenance of the plans. External and internal equilibrium of them. Influence of the unions and professional associations, fringe benefits, norms and cost of living, fiscal policy and the private sector in the preparation of compensation plans. The use of the compensative policy to point up areas of governmental priority. 10-10-94

### **ADPU6028 - Retirement Systems.**

*Three credits. Three hours of lecture per week Prerequisites: PUAD 6015*

Historical development of the concepts of pension and annuity and their use and influence in personnel administration. The social, economic and psychological aspects of retirement, the social and economic implications of an increase in the productive and non-productive average span of life. Psychological preparation for retirement. Other incidental benefits of retirement; adoption and administration of the systems. Continuity of credit for services and the mobility of the employee. 10-10-94

### **ADPU6045 - Communications and Relations with Citizens.**

*3 credits. Three hours of lecture per week.*

Critical discussion of methods and techniques of communication and public relations with citizen. Methods of communication control, expression of public interests and its effect on government action are discussed and analyzed. The theme is worked from a perspective of democratic governance with emphasis on government transparency and access to information.

### **ADPU6046 - Communication and Public Opinion.**

*Three credits. Three hours of lecture per week*

Concepts of public opinion and communications; their information and function in contemporary democracies, methods of measuring public opinion, surveys, analysis of mass media of social communication and their impact on the administrative and political processes. 10-10-94

**ADPU6047 - Seminar: Local Government Administration.**

*3 credits. Three hours of seminar per week.*

The course requires the development of an investigation on the topics selected by the professor. The class of discussions are about the structures, legal basis and development of the municipal governments of Puerto Rico, Latin America and the United States. Specifically, the roles of majors, municipal assemblies, councilors, and city administrators, among other, are examined and contrasted. The administrative and operational aspects of the municipal governments are also discussed. Attention will be given to management problems such as executive leadership, availability and use of humans, financial and physical resources. The topic of the capabilities of local governments in their political, social, and economic role and their relationship with the central and federal governments is highlighted in the discussion. Municipal autonomy is also discussed in the context of sustainable development and the protection of the environment.

**ADPU6055 - Seminar: The Legislative Process.**

*3 credits. Three hours of seminar per week.*

The course offers the student the opportunity to carry out an investigation and produce a monograph or research report. The course offers a background of the constitutional history of Puerto Rico and other international jurisdictions the constitution of the United States of America and the constitution of the commonwealth of Puerto Rico, with emphasis on the republican form of government and the powers that emanate from the legislative, executive and the judicial powers. Through class discussions and written works on the legislative branch, the course stress on problems such as: the scope of the legislative branch, the doctrine of separation of powers and the inherent power of the legislative branch, among others, in addition, the legislative process is investigated, analyzed and studied, according to the powers of the legislative power, its foundations, nature and scope.

**ADPU6056 - Seminar: judicial Power Administration.**

*3 credits. Three hours of seminar per week.*

The seminar focuses on the administrative processes of the judicial branch, both state and federal. The students, guided by the teacher, discuss, debate and investigate the function of imparting justice and the role of the courts in the formulation of public policy, as well as the relationship of the courts with citizens, lawyers and other governmental branches. The student conducts research on the selected topic and produces a monograph or research report that is delivered in phases until the final work is delivered.

**ADPU6059 - Supervised Practice.**

*Three credits.*

Internship in government agencies under the supervision of a faculty member. Exclusively for students who have had no administrative experience. 10-10-94

**ADPU6061 - Third Sector's Theory and Practice.**

*Three credits. One hour and a half of lecture, one hour of discussion and half an hour of research per week*

*Prerequisites: CERTIFY TO HAVE KNOWLEDGE OF MOODLE (USED FOR HYBRID OR DISTANCE COURSES).*

This course offers a contemporary look at the origin and development of non-organizations that, collectively, are known as the third sector, their functions and their contribution in the provision of services to society. It discusses and analyzes the role as a complement, supplement, and adversary of the public sector, as well its characteristic values and structures. In addition, analyzes the incursion of organization mechanisms of the third sector in the public sector itself. Students will have the opportunity to analyze the impact of the third sector in different areas of society. The course will be offered face-to-face, hybrid, and distance modalities.

**ADPU6195 - External Sources of Financing for The Development of Programs and Services.**

*Three credits. One hour and a half of lecture one hour of discussion and half an hour of research per week.*

This course offers a contemporary look to the development and contribution to external sources of financing in the province of services of public and non- profit organizations. Discusses and analyzes the importance of external financing to achieve sustainable development objectives and explores strategies to identify external sources of financing related to the value of ethics, transparency, and accountability. Students will have the opportunity to apply the knowledge in the development of an external financing proposal. This course will be offered face-to-face, hybrid and online modalities.

#### **ADPU6265 - Labor Law.**

*Three credits. Three hours of lecture per week Prerequisites: PUAD 6015*

Study of the legal framework of the collective bargaining and labor relations in Puerto Rico. Emphasis on such fundamental laws as the Taft- Hartley act, the labor management reporting and disclosure act, the Norris- la act and Puerto Rico law. Their historical development and jurisprudence. 10-10-94

#### **ADPU6266 - Labor Law in The Public Sector.**

*3 credits. Three hours of lecture per week.*

Historical background. The nature of employer responsibilities and the foundations of those obligations, worker protection in various societies, social and economic problems faced by the Puerto Rican wage-earner. The philosophy of protective legislation and public policies connected with it. Federal and local employees in Puerto Rico, workday and workweek, minimum wage, Christmas bonuses, vacations, sick leaves, holidays, maternity benefits and general protective legislation against unjustified lay-off of employed mothers, accident and disease-prevention among workers. Unemployment, accident, old age and incapacity insurance practices and benefits, employment services and migrant workers protection.

#### **ADPU6267 - Labor Relations in Public Sector.**

*3 credits. Three hours of lecture per week.*

Historical development of labor relations in the public service in Puerto Rico, the United States and Latin America. Legal basis and doctrines about the right to form and join a union. Fundamentals of the collective bargaining process: the parties, the rules, the policy, the strategies and the fiscal aspects, are discussed. Problems of sovereignty, representation, interpretation and resolution of complaints and grievances are covered. New description since January 2018

#### **ADPU6268 - Collective Bargaining.**

*Three credits. Three hours of lecture per week Prerequisites: PUAD 6015*

Historical background of labor relations practices and principles. Collective bargaining and its functions in modern society. Problems of collective bargaining in the public sector; public policy and its legal framework; contents of the contract, the various stages in the bargaining and contract administration and interpretation; grievance proceedings, arbitration, labor conflicts, prevention and solution. 10-10-94

#### **ADPU6305 - Administration and Fiscal Policy.**

*3 credits. Three hours of lecture per week.*

The course studies the processes, regulations and practices of planning, execution and control of government financial policies and programs. Attention is given to municipal and state financial administration, as well as to relations with the federal government. Some of the topics discussed are: financial organizations, government accounting and public debt.

#### **ADPU6306 - Determination of Economic Policy by The State.**

*Three credits. Three hours of lecture per week*

Analysis of principles, problems, patterns, and means of economic control by government. Theoretical factors determining the purpose, nature, and degree of governmental control. Social control vs. Socialistic

control, laws, instruments and agencies of control, control of specific areas of the economy, monopolies, public service companies, banks, production, labor relations, purpose, means and degree of government control in Puerto Rico. 10-10-94

**ADPU6307 - Taxation Policy.**

*Three credits. Three hours of lecture per week*

Tax patterns of the state and of local and federal government. Analysis of property tax, personal income tax, commercial tax, and inheritance taxes are studied as a mechanism of social control. 10-10-94

**ADPU6308 - Government Accounting.**

*Three credits. Three hours of lecture per week*

General accounting processes and principles with particular emphasis on that aspect of general accounting that concerns accounting of public funds, analysis of governmental systems and procedures. 10-10-94

**ADPU6309 - Public Finance.**

*Three credits. Three hours of lecture per week*

General analysis of the process of determination of government revenues and expenditures, public debt, tax policies, effects of governmental programs on the distribution of income seen through various economic theories. 10-10-94

**ADPU6310 - Seminar: Problems of Budgetary Administration and Financial Policy.**

*3 credits. Three hours of lecture per week.*

The course is aimed at the analysis and investigation of specific topics on the budget process and the determination of public policy regarding the priorities in the allocation of public resources. Fiscal and budget issues faced by Puerto Rico, Latin America or the United States offer students the opportunity to observe the impact of the financial policies of the states on the institutional capacity of the countries to achieve sustainable development and quality of life. Requirement of the specialization in public management.

**ADPU6405 - Organization Theory.**

*3 credits. Three hours of lecture per week.*

The objective of this course is to apply the most relevant theoretical knowledge about organizations of contemporary governmental problems. Essential elements of organizational functioning are studied such as: decision making, strategy development, leadership and the management of transformations. The course also analyses and contrasts the different schools of thought and models that have been developed within the public sphere. It also investigates the impact of the internal and external environment and power relations within organizations. Attention is given to the design and innovation of administrative systems, organizational culture and its change.

**ADPU6406 - Administrative Programming.**

*Three credits. Three hours of lecture per week*

Organizational change processes, alternate forms of organization, location and importance of programming in organizations, identification of potential agents for critical change, the relationship between administrative programming models in societies in transition and in modern societies. 10-10-94

**ADPU6407 - Quantitative Methods for Public Policy Analysis.**

*3 credits. Three hours of lecture per week.*

Introduction to the use of mathematical models in public administration, application of linear programming, simulation, decisional statistical theory, input-output analysis and problems of investigative operations.

**ADPU6409 - Governmental Systems and Procedures.**

*3 credits. Three hours of lecture per week.*

The course is focused to the critical analysis of the fundamental design elements of public organizations, in particular the structures, systems and procedures. The discussion revolves around the methods and techniques that allow changes and internal transformations to increase the efficiency, effectiveness and quality of government programs and services. Required course for the special area of public management.

**ADPU6410 - Seminar Public Management.**

*3 credits. Three hours of seminar per week.*

Research course on the problem of public management. A theoretical-practical approach is used to study topics such as: the design of work processes, the design and reorganization of work structures; the determination of the necessary human, fiscal and physical resources; the quality of services and the citizens' trust in the government's ability to deliver them; as well as the organizational capacity to respond to national emergencies, among other contemporary issues.

**ADPU6505 - Government and Politics.**

*3 credits. Three hours of lecture per week.*

Course required for the specialization in government and public policy. Analysis of political and governmental activities vis-a-vis the institutions and groups that influence public policy decisions. Includes an examination of the control of such activities through the representative process, government structures, political parties and special-interest groups. Discussion and analysis of modern bureaucracies and their roles in the formulation and implementation of public policy.

**ADPU6506 - Strategic Planning and Projects Management I.**

*3 credits. Three hours of lecture per week.*

Introduction to planning. Significance and extent of planning in the democratic state, the modern historical foundations of planning, and the importance of economic and social planning for the well-being of societies. The second part of the course focuses on planning as a management tool in public administration. Planning theory, strategic planning and strategic management are discussed. The characteristics, possibilities and limitations of human, financial and technological resources are discussed. Methods and techniques for planning and project management are introduced, among them: data collection, plan development, and indicators for measuring progress toward goals and results. Required course for the special area of public management.

**ADPU6507 - Public Policy and Sustainable Development.**

*3 credits. Three hours of lecture per week.*

Course required for the specialization in government and public policy. The study of public administration in the contemporary state as a basic element in attaining a more productive society. Public policies related to fiscal health, employment, industrial development, and environment are discussed.

**ADPU6508 - Qualitative Methods for Public Policy Analysis.**

*3 credits. Three hours of lecture per week.*

Introduction to qualitative research methods for policy making. The student learns about qualitative and mixed research paradigms and their application to public policy and administration decisions.

**ADPU6509 - Administration of Metropolitan Areas.**

*Three credits. Three hours of lecture per week.*

Characteristic of metropolitan areas as urban patterns. Implications of the increasing economic and social



integration in the traditional political frame of local governments, dislocation of services, problems of taxation, and political representation. Structural alternatives and policies for the solution of metropolitan problems, annexation, consolidation, federation, and special districts. (c) 10-10-94

**ADPU6510 - Seminar Government and Democracy.**

*3 credits. Three hours of seminar per week.*

In this seminar, the organization, structure and functioning of democratic governments will be discussed and researched. The problems of human rights, politicization and ethics in the exercise of governing the state and administering the government will be studied with special interest. The student will have the opportunity to deepen the application of democratic principles in the administration and formulation of public policy in Puerto Rico through a research project. Requirement of the specialization in government and public policy.

**ADPU6520 - Seminar Reform and Modernization Of The State.**

*3 credits. Three hours of seminar per week.*

This seminar is aimed a studying the opportunities and restrictions inherent to the models of transformation of the structures and organization of the state. Specifically, the dimensions of organizational actions that affect good governance policies are investigated, such as: the promotion of citizen participation in public governance, transparency and accountability, as well as the relevance and quality derived by society from the government actions.

**ADPU6530 - Seminar on Fiscal Resources Policy.**

*Three credits. Three hours of lecture per week*

Economic theory of the public sector, strategies, computation modalities, political and social influences which have an effect on the decisional processes, methods for the system's change and innovation. The emphasis of the course will vary in accordance with the necessities and circumstances of the groups of students to which it is directed. 10-10-94

**ADPU6540 - Seminar: Public Policy and Human Rights.**

*3 credits. Three hours of seminar per week.*

The course will offer students the opportunity to acquire a more comprehensive understanding of human rights, as well as the social responsibility of the state in fulfilling them, through research. The different debates that currently characterize it will also be examined. From an interdisciplinary perspective, human rights will be discussed as a concept, as a set of laws and institutions and as a collective of political and cultural practices. We will also study the philosophical foundations of human rights that will allow us to move towards their practice and examine the political structure that allows their violation at the global level.

**ADPU6550 - Comparative Public Administration.**

*3 credits. Three hours of lecture per week.*

Comparative analysis of the public bureaucracy in its international setting. The primary focus will be United States, Latin America and Europe.

**ADPU6560 - Information and Knowledge Technologies.**

*3 credits. Three hours of seminar per week.*

Seminar in which the impact of information and communication technologies on the administration of information and knowledge is discussed. The role of information and communication technologies (ict's) as tools to strengthen democratic governments and open government is investigated.

**ADPU6580 - Seminar on Administration of The Educative Process.**

*Three credits. Three hours of lecture per week*

An analysis will be made on traditional concepts of the scholar system and organization and of the administrative problems that the educative process confronts. The impact of socio-cultural changes of modern society on the educative system and its implications for scholar public administration will be studied, including the study of new organizations and programs to cope with this problematic. 10-10-94

**ADPU6601 - Thesis.**

*Six credits. Prerequisites: 15*

Designed for students working in the preparation of their thesis. The course gives the students the opportunity to design and discuss in detail, with the thesis counselor, problems encountered in their research. (c) 10-10-94

**ADPU6602 - Thesis Continued.**

*No credits. Prerequisites: 31*

Continuation of the thesis project so that the student be allowed to use the library and other university facilities during the semester and in the summer session. (c) 10-10-94

**ADPU6701 - Job Analysis and Compensation.**

*Three credits. Three hours of lecture per week.*

The study of work organization in the public service in terms of the organizational design and its job structure including job analysis and job evaluation methods and the development, implementation and administration of classification and compensation plans. Study of the human resources administration for the public service act regarding job classification and compensation (equal pay, fair wage, and minimum salary, among other topics).

**ADPU6702 - Evaluation of Government Programs.**

*Three credits. Two hours of lecture and one of discussion per week.*

Study of evaluation research designs: qualitative, quantitative and mixed. Design of performance indicators and identification of variables for measuring performance (effectiveness, efficacy and efficiency).

**ADPU6703 - Performance Appraisal, Training and Development.**

*Three credits. Three hours of lecture per week.*

Concepts, theories and methods related to individual job performance with emphasis on public service organizations. The discussion focus on the relation- ship between, performance appraisal results, training, and development, and the employee's productivity, motivation and job satisfaction.

**ADPU6704 - Governance in Public Management.**

*Three credits. Three hours of lecture per week.*

Course required for the special area of public management. Citizen participation, transparency, accountability and quality of service, and how are they applied to the practice of public administration. A theoretical discussion precedes the study of techniques developed elsewhere to open government decision making and deliberative processes to citizen's participation. Special attention is given to minorities and other special groups.

**ADPU6705 - Human Resources and Government Transformation.**

*Three credits. Two hours of lecture and one of discussion per week.*

A discussion of organizational change and development theories with emphasis on government settings. The student will acquire a better understanding of the elements affecting the adoption of innovation, change and transformation in government. Several techniques for promoting change and innovation will be discussed.

**ADPU6706 - Management and Resolution of Conflicts.**

*Three credits. Three hours of lecture per week.*

The course presents the theoretical and practical aspects of labor disputes and the methods and techniques for its handling and resolution, the course is designed from the perspective of public administrators and based on the ethics and the public interest.

**ADPU6707 - A Social Perspective in Public Policy.**

*Three credits. Two hours of lecture and one of discussion per week.*

Course requirement of the specialization in government and public policy. Introduction to the theory and practice of social policies in democratic countries, with emphasis in Puerto Rico. Some of the ideological approaches to the topic of social welfare are discussed, such as: neo-liberalism, social democrat, feminist, and anti-racial, among others, and the way in which they take shape through public social policies.

**ADPU6708 - Strategic Planning and Project Management II.**

*Three credits. Three hours of seminar per week.*

Seminar in which the methods and techniques of planning and management of government projects are applied in the development of a project and the preparation of the documentation and final report. The course offers the student the opportunity to participate actively in the design of projects of varied complexity related to the study of problems or the implementation of solutions.

**ADPU6895 - Professional Development Practicum in Public Administration.**

*One credits. One hour of lecture per week.*

Core course. It is a preparatory course to give new students the necessary skills for graduate work. It consists of a series of workshops related to the use of apps and programs for research and administration. Students are exposed to the ethical aspects of research, citations style and professional writing tools.

**ADPU6896 - Research Seminar.**

*Three credits. Three hours of seminar per week Prerequisites: ADPU6005, 6006, 6008, 6009, 6895.*

In this seminar the most important elements of academic research are discussed. Students present their ideas and discuss their arguments to develop a critical monograph on a contemporary problem of public administration. The product is expected to be of a level of publishable quality. The student integrates the values of public administration into his work and in the analysis of the study problem incorporates international perspective.

**ADPU6897 - Seminar on Public Affairs.**

*Three credits. Three hours of seminar per week.*

In this seminar, the role of citizens in a democratic society vis a vis, public affairs are discussed and debated from different perspectives. The citizen is understood as an individual, as a member of a group or as part of civil society. The course allows the study and reflection on contemporary public issues with repercussions on government and public administration that are reflected in the research work of the student.

**ADPU6898 - Thesis.**

*Three credits. Three hours of thesis per week Prerequisites: ADPU6005, 6006, 6008, 6009, 6895, 6896.*

Elective course for students interested in doing a thesis. The thesis is a rigorous work in which the student integrates the knowledge of their specialty area and demonstrates competence for the research. The student will attend group and individual discussion sessions with the professor about the research topic. A thesis committee is formed for at least two members who must approve the research proposal and guide the student through it. During the semester, the student must carry out the research and present the written work in phases until the conclusion of the thesis. At the end the investigation must be presented orally and in

writing. It is expected that the student has completed the work equivalent to the literature review prior to the beginning of this course.

### **ADPU6900 - Comprehensive Examination.**

*No credits.*

Preparation for, and the taking of the comprehensive examination. The student must demonstrate academic competence on both the core courses and the concentration area. The exam is one of the requirements for the degree and consists of a written test. It is offered once every semester and should be taken once the student has approved 24 credits. The exam can only be repeated once. It is considered a pass/fail course and while the student is registered in it, he/she will be considered a fulltime student.

### **COOP6031 - Cooperatives Fundamentals.**

*Three credits. Three hours of lecture per week.*

Philosophical discussion of the concepts on which is based the cooperative as socio-economic system in the west. The focal points for discussion will revolve around the concepts of economy and social order, labor and human condition and collaboration and cooperation. The course aims to provide a complex perspective of the conceptualization of cooperatives and review critically the development of this discourse with particular attention to the possibilities and limitations. Group discussions and teamwork will be the main course teaching strategies.

### **COOP6033 - Contemporary Socioeconomic Debates.**

*Three credits. Three hours of lecture per week.*

Discussion on the current socio-economic debates. This course analyzes concepts such as development from the rise of capitalism to new approaches in the late twentieth century, also the concept of solidarity economy as a new theoretical configuration. The points of connection and divergence of these debates is analyzed and how are contextualized within the model of economic development of Puerto Rico. The course is divided into five thematic modules and will run through reflections, group discussions, reports, presentations and debates.

### **COOP6035 - Psychological and Educative Aspects in The Solidarity Economy.**

*Three credits. Three hours of lecture per week Corequisites: COOP6031, COOP6033*

The course presents various theories that addresses cooperative association as well as its educational character from its assumptions to the implementation in the organization. Three themes five unity to the course: subjectivity, community and cooperative education and identity. The course offers graduate students the perspective of complexity of the psychosocial aspects and identifies education as a process of constant transformation of human beings and society in which they coexist through citizen participation in the processes of social action. The course is offered through critical reflections of readings, fieldwork, monographs and work plans or action.

### **COOP6131 - Economic Viability.**

*Three credits. Three hours of lecture per week Prerequisites: COOP6031, COOP6033. Corequisites: COOP6035*

Students enrolled in this course will study the gestation and development of supportive economic initiatives, from conception to evaluation of the economic and social viability of the project. The course will approach the economic processes of production and distribution taking into account ethical values of this type of economy and its impact on local development with a view to developing a cooperative system and integrated solidarity through the creation of networks and alliances between these initiatives. Oral presentation will be coordinated and written for the students to supplement the discussion of some topics of the course. The student develops a business plan for a cooperative or solidarity organization. The student will have the knowledge and develop the skills to design, organize, plan and evaluate the economic and social

viability of new cooperatives or solidarity organizations such as local development strategy.

### **COOP6133 - Management Models for Cooperatives and Solidarity Companies.**

*Three credits. Three hours of lecture per week Prerequisites: COOP6031, COOP6033, COOP035, COOP6131.*

The course presents and discusses some basic notions of the management models used in the business world. Students will discuss the forms of participation of the workers in the management of productive units and will examine examples of management models proposed by cooperatives, their features and components. Students will discuss the application of the cooperative principles in the management and its ethical aspects, the characteristics that underlie the management model of the cooperatives through some of the components of the general management. Finally, students will present some examples of good practices that have been established in these models of cooperative management. The course will give case studies, written and oral presentations to supplement the discussion. Face-to-face, hybrid and online. Effective January 2021.

### **COOP6135 - Project Proposal Seminar.**

*Three credits. Three hours of seminar per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131*

The seminary addresses the importance of research in the field of cooperatives and solidarity organizations as well of the process of making it. The course presents and evaluates various approaches and research methods with special emphasis on participatory action research. The structure and requirements of a project under regulations of the graduate program is discussed, including ethical issues. It is expected that at the end of the seminar, students present their project proposal on research.

### **COOP6201 - Project.**

*Three credits. Three hours of thesis per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131 Y COOP6135.*

This course provides individualized attention to students so they can finish and present their project according to the regulations of the graduate program. Students can choose from five types of projects: creative project, research an article for publishing, a case study and a feasibility study (social and economic) of a cooperative or a solidarity organization. The student will have the opportunity to enroll two times in this course until meet the course requirements to deliver the final drafting and presentation of the project.

### **COOP6202 - Project II.**

*Zero credits. Prerequisites: COOP6031, 6033, 6035, 6131, 6135, 6201*

Course for the continuation and completion of the project or research for those students who did not complete their work in the project course as a requirement to obtain the master's degree. In this course students will receive assistance and individualized attention to complete their project or research. The students will be able to conclude the collection and analysis of data and present the conclusions of their project or research to the school's graduate committee. The course will be completed when the written work is submitted, and the student presents his/her project or research orally to the university community. This course represents a complete academic load for the student and may be repeated up to twice according to the student's handbook.

### **COOP6205 - Practical Experience in Solidarity Economy.**

*Three credits. A minimum of 20 hours of practice per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131, COOP6133.*

The course consists of practical experiences that students perform in an organization related to the solidarity economy which is expected to begin the implementation of the knowledge gained in the courses. The experience will be carried out under the supervision of a department teacher. The practice can have the following options: a practice in a cooperative or in a solidarity organization practice center, or another

discipline that has a component of economic development, an internship with a government agency or commission of the legislature relating to cooperative; or a research center participating in any related investigation. The student must meet a minimum of 20 hours per week up to 300 hours of practice per semester for course approval.

### **COOP6206 - Cooperative Law.**

*Three credits. Three hours of lecture per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131, COOP6133.*

This course will study historical trajectories and conceptual origins of legal rules that made up cooperative laws. Also, this course will analyze the principles of the cooperative law and its contemporary applications in cooperative movements. The course will view the particulars of the cooperative laws in Puerto Rico and will make comparative analysis within cooperative standards in Europe, North America and South America. We will discuss contemporary debates about social, public and private laws to understand governmental intervention in the development of cooperative movements. The students will be able to critically analyze particular cases and also make recommendations.

### **COOP6207 - Caribbean Cooperativism and Solidarity Economy.**

*Three credits. Three hours of lecture per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131, COOP6133*

The course will study diverse experiences of social and solidarity economy within the Caribbean, focusing on: Cuba, Jamaica, Haiti, Dominican Republic and Puerto Rico. These experiences will be analyzed within legal frameworks, public policies, social movements, support mechanisms and management models. Also, the course will analyze socioeconomic impacts of each of these countries in the Caribbean. Also, we will analyze Caribbean experiences from the point of view of international cooperative movement. Students will be able to do research, exchanges with other countries and establish professional networks.

### **COOP6208 - Public Policies.**

*Three credits. Three hours of lecture per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131, COOP6133.*

The course is an introduction to the legal framework that encompasses the cooperative and solidarity economy in Puerto Rico. It begins by defining the concept of law and some of the classifications that affect associative organizations. In addition, critical analysis of the role of the state against the hegemonic economic model will be viewed, as well as alternative models such as cooperatives and solidarity organizations. The laws on cooperatives and other organizations are analyzed. The course also presents the cooperatives historical process in Puerto Rico through the creation of government institutions, public corporations and federative bodies. Students will evaluate public policy and legislation. The course is conducted through lectures, debates, discussions and the development of public policy proposals.

### **COOP6209 - Solidarity Finances.**

*Three credits. Three hours of lecture per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131, COOP6133.*

This course will study the concepts currency and other means of exchange within the framework of solidarity finances, as well as other concepts and processes as markets, instruments and financial institutions that facilitate the flow of funds for the process of production, distribution, marketing and consumption. Also, this course will analyze risk/rendering marketing relation- ship within solidarity finances activities in opposition to traditional finance systems. The students will be able to compare many examples of market principles within solidarity finances using the philosophical and economic fundamentals of the course. It will use conferences and discussions of assigned cases.

**COOP6210 - Transformed Companies into Cooperatives by Workers.**

*Three credits. Three hours of lecture per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131, COOP6133.*

Analyses of the experiences of companies transformed into cooperatives by workers as a form of economic organizations and social phenomenon belonging to the social and solidarity economy. The course presents the political and socio- economic context that allows or limits the emergence and development of these organizations at national and international level. The course analyzes the process of social organization in terms of logic, development of a new cooperative identity, organizational changes and employee satisfaction. The course is presented through group discussions of case studies. Film and documentaries are used to show some experiences and real cases. A paper or monograph in which students systematize some viewed experiences or case study is required.

**COOP6215 - Interdisciplinary Seminar of Cooperativism and Solidarity Organizations.**

*Three credits. Three hours of seminar per week Prerequisites: COOP6031, COOP6033, COOP6035, COOP6131, COOP6133*

This course presents topics related cooperatives, solidarity organizations and solidarity economy from an interdisciplinary approach, enriching the study of its contemporary emerging issues. The purpose of this course is to broaden the curriculum and meet the interests of the students. Addresses projects, texts or research interest proposed by the teacher or students allowing deepen the knowledge of these issues. This seminar serves contemporary debates that are not in the courses that make up the curriculum or can delve into projects cases, theoretical issues, concepts or issues discussed in other courses of the master in management and cooperative development and solidarity organizations. The proposed theme must be approved by the graduate committee. The course is taught through discussions, case presentations and review theoretical readings of cooperatives and solidarity organizations.

**CORE6001 - Seminar in Psychiatric Aspects of Rehabilitation I.**

*3 credits. Three hours of lecture and discussion per week*

Comprehensive survey of the functions and services of medicine and psychiatry. In rehabilitation. The student is introduced to medic- psychiatric terminology in order to be able to interpret medical and psychiatric reports and is familiarized with the basic diagnostic evaluative and therapeutic procedures, clinical instruction in the fields of internal medicine, surgery, orthopedics, neurology, psychiatry, cardiology, ophthalmology, etc., provides the tools for the understanding of those diseases which are related to significant disability. The student is made aware of how disease and injury may affect the total functioning of the individual, especially in terms of occupational adjustment and of the emotional and social implications of the medical disabilities studied. The student is well oriented as to the physician-patient, counselor-client, and counselor-physician relationship. The student is also familiarized with the contributions of other members of the rehabilitation team. (c) change in title since August 2013

**CORE6002 - Seminar in Psychiatric Aspects of Rehabilitation.**

*3 credits. Three hours of seminar*

The course studies human development and pathological behavior. Students are trained in the use of medical-psychiatric, diagnostic terminology, and the use of the diagnostic and statistical manual of mental disorders (DSM) and in the prevalent psychiatric disorders in Puerto Rico. Psychiatric basic treatments and their use in the rehabilitation process are discussed. Individual, family, multicultural, and social variable associated with the development of mental disorders in Puerto Rico are also discussed. Students are trained in the use of teamwork models for the promotion of better socio-psychological and vocational adjustment in people with functional diversity.

**CORE6003 - Functional Capacity Diagnosis.**

*1 credit. Three hours per week for a period of five weeks Prerequisites: CORE 6001, 6002, 6005, 6008 AND 6011. Corequisites: CORE 6016.*

In this course the functional capacity diagnosis (fcd) is presented as an essential task in the rehabilitation counseling and forensic rehabilitation practice. The international classification of functioning, disability and health (icf) is presented as a tool to determine functional capacity for independent living and employment. This system provides for analysis of functionality from a biopsychosocial perspective making use of evidence-based practice. It emphasizes the importance of fcd to promote wellness from a holistic perspective, prevention of secondary conditions, service plans development and public policy. New title begins on January 2021.

### **CORE6005 - Rehabilitation Counseling Principles and Techniques I.**

*3 credits. Three hours of seminar per week.*

This seminar will provide students with essential knowledge about psychological measurement. Students will apply core concepts on test construction and behavioral observations of hypothetical clients to the interpretation of tests results, measuring diverse constructs and behaviors, typically used in field of rehabilitation for people with functional diversity. Students will learn to make a proper assessment referral and to interpret the qualitative and quantitative results from assessment reports of diverse professionals in the field of rehabilitation. Students will become familiar with psychological and vocational tests for Puerto Ricans. The challenges of psychological measurement in Puerto Rico will be analyzed with special emphasis in the field of rehabilitation; among these are the need for reasonable accommodation and the ethical implications of non-standardized assessment. The main teaching method consists of workshops and development activities for test administration and interpretation, supervised by the professor.

### **CORE6006 - Seminar on Scientific Research Techniques in Rehabilitation.**

*3 credits. Three hours of seminar per week Prerequisites: CORE 6049 OR ITS EQUIVALENT*

This seminar provides experiences for students' enhancement of their critical thinking and their acknowledgement of the relevance of statistical procedures, research designs, and evidence-based practices as essential tools in the field of rehabilitation counseling. Students will recognize the value of applying scientific knowledge in their professional formation, to their evaluation of programs, and in their roles as rehabilitation practitioners. Students will be exposed to academic and research activities that will lead them to apply the ethical, legal, and cultural components relevant to research with human subjects. Among the learning strategies to be used are group discussions, oral presentations, and critical analysis of published and unpublished research. The course will be conducted in a climate of collaboration and feedback with the professor.

### **CORE6007 - Foundations in Rehabilitation Counseling.**

*3 credits. Three hours of lecture and discussion per week*

The seminar discusses the paradigms of rehabilitation, its historical and philosophical background, as well as legislation that protect people with functional diversity. The service delivery systems are studied. The student will present a critical analysis on issues related to professional identity and ethical behavior of rehabilitation counselors. Evaluates the role and functions of rehabilitation counselor serving people with functional diversity.

### **CORE6008 - Seminar on Occupational Information and Application to the World for Employment.**

*3 credits. Two hours of lecture and one of laboratory per week.*

The course examines the different theoretical approaches to vocational selection and career development. Similarly, attempts to explore and analyze the implications of each of the theories discussed in the vocational development of the person with a disability or functional diversity. Among the topic knowledge of the occupational world, educational facilities, socio-economic projections and use of this information in the



individual and group career counseling are incorporated. The course gives special emphasis to the study and use of the dictionary of occupational titles (dot) and "o net " in the process of occupational information. In addition, we discuss and analyze the psychological, economic and ecological factors influencing the selection and vocational adjustment of people with and without disabilities. Legislation related to the career development of people with disabilities is discussed as well. The main focus of the seminar is to raise awareness on the student to understand and promote the nature of vocational development as part of the comprehensive development of human beings. And recognize the value of this concept in orientation programs in schools, rehabilitation facilities and the community new 08-15

### **CORE6011 - Rehabilitation Counseling Principles and Techniques I.**

*3 credits. Three hours of seminar per week.*

This seminar discusses the philosophical and psychological approaches that give rise to psychotherapy or counseling models for the study of human behavior. Various psychological theories are analyzed based on the service provided to the person with functional diversity. It discusses the theories techniques as well as relevant scientific findings. It delves in the analysis of the theories in order to stimulate student's development of an intervention style that is conceptually and scientifically supported; that responds to the discipline's ethical principles and stimulates a self-reflective attitude. The teaching methodology requires the use of critical thinking and the application of the scientific method to a theoretical inquiry.

### **CORE6012 - Rehabilitation Counseling Principles and Techniques II.**

*3 credits. Three hours of seminar per week Prerequisites: CORE6011*

This seminar develops skills in interviewing techniques and a comprehensive analysis of counseling in a rehabilitation process. Based on professional and scientific literature as well as on clinical interviews with mock clients, the student will enhance his/her case conceptualization; will develop a comprehensive and dynamic understanding of participant's behavior and basic intervention skills. The course promotes a self-reflection, professional, and ethical attitude in the application of counseling interventions in a rehabilitation process. Until

### **CORE6015 - Chronic Pain Management in The Rehabilitation of Persons with Disabilities I.**

*Three credits. Three hours of discussion per week Prerequisites: CORE 6001-6002 AND CORE 6011-6012.*

Introduction to the management of chronic pain in the rehabilitation process of a person with disabilities. Through role playing, it trains in the techniques and intervention strategies commonly used to cope with chronic pain. 08-16-99

### **CORE6016 - Seminar on Evaluation and Employment Techniques for Individuals With Function Diversity.**

*3 credits. Three hours of lecture and discussion per week Prerequisites: GRADUATE STUDENT.*

The seminar discusses vocational assessment techniques and determination of employment readiness. It will analyze counseling aspects related to work and placement modalities. In addition, through field work and research, emphasis is made on occupational analysis, employment markets study and other aspects related to employability, placement, and work adjustment of a person with disability. The seminar also emphasizes in the roles and responsibilities of the counselors as an evaluator and as a placement counselor in the assessment and placement process of the person with functional diversity.

### **CORE6017 - Seminar Practicum in Rehabilitation Counseling.**

*4 credits. Eight hours of lecture and discussion per week.*

This seminar provides clinical experience that helps refine basic skills in rehabilitation counseling before internship. It allows student to gain experience in the application of counseling theories and models in the rehabilitation process of individuals with functional diversity. It helps develop the attitudes and skills for a

professional practice based on professional ethics, through the observation of initial and follow up interviews in the community's rehabilitation service offices, the students will be exposed to persons with disabilities and to the existing systems that provides services for them. This experience will help refine conceptualization and case management skills. The student will integrate the acquired knowledge in the core courses with the professional practice through various academic activities such as: role playing individual and group supervision, critical analysis, conferences with external resources, presentation of cases lead by students, among others.

**CORE6018 - Emerging Modes of Placement: Solidary Self-employment with Or Without Support.**

*One credits. One hour of lecture per week Prerequisites: CORE6008.*

In the course we discuss the new emerging modes of placement. These include solidary self-employment with or without support for people with disabilities in Puerto Rico in the industrial, manufacturing and service market. Emphasize on occupational analysis, market research and other aspects of employment related to employability, placeability and work adjustment, of people with disabilities using the performance management system.

**CORE6020 - Human Development and the Rehabilitation of People with Development Disabilities.**

*Three credits. Three hours of seminar per week.*

The seminar provides student with essential and practical knowledge about the human development process with emphasis in the rehabilitation of people with development disabilities. The students will apply and adapt theories of human development to specific needs of people developmental disabilities. The students will apply and adapt theories of human development to specific needs of people developmental disabilities. Primary attention will be devoted to the intervention with children and adolescents in school and college settings and to the inclusion, transition and reasonable accommodation. Students are exposed to conditions typically classified as developmental disabilities' psychological adjustment of the individual and his or her family; and to the legislation that has led to the delivery of services to this population. Will analyze and apply models of interdisciplinary or transdisciplinary interventions which are embedded in the process of integral rehabilitation that are sensible to diversity.

**CORE6028 - The Rehabilitation of Drug Dependent.**

*Three credits. Three hours of lecture per week.*

Basic orientation is given regarding the drug addiction problem in Puerto Rico, and on its international aspects. The effects of addiction on the individual are analyzed, with emphasis on the noxious effects on the organism. Analysis of the pharmacological properties of drugs. Detailed analysis of the rehabilitation process, including treatments and facilities available in the community. (c) 10-10-94

**CORE6029 - The Rehabilitation of The Public Offender.**

*Three credits. Three hours of lecture per week*

This course presents the public offender as a person suffering from some kind of emotional disturbance or behavioral disorder. Social information is used to study the growth and development of the individual through the different theories of delinquency or social deviation. Prevention and rehabilitation programs and corrective methods existing in the community are discussed. Emphasis is given to the role played by the rehabilitation counselor in the rehabilitation of this individual. (c) 10-10-94

**CORE6031 - Rehabilitation Of Spinal Cord Injured Persons.**

*Three credits. Three hours of seminar per week.*

Introduction to a multidisciplinary and systemic rehabilitation process of persons with spinal cord injury. Special attention is provided to person's and family's adjustment to disability. 19-08-96

**CORE6035 - Group and Family Counseling.**

*3 credits. Three hours of seminar per week.*

The seminar emphasizes the importance of group work as a therapeutic resource of group work as a therapeutic resource. The group process is presented from an evolutionary perspective or by phases, in which each phase has a mission or purpose during the helping process. The member's behavior and the leader's functions are analyzed through the group's phases of development. Ethical and diversity related dilemmas, in group and family counseling, are discussed in the course. The students also have the opportunity to study and to apply the therapeutic group process through various teaching strategies. Description since August 2013

**CORE6039 - Reasonable Accommodations at Workplace.**

*One credits.*

The course presents the historical background and the legislation that impacts the processes of reasonable accommodation. The current line will discuss reasonable accommodation as a resource to improve the quality of life and integrate people with functional diversity into employment. We will work with the different strategies in the development of a reasonable accommodation plan. This course can be offered in face-to-face, hybrid and online modalities. Effective for January 2021.

**CORE6040 - The Sexuality of The Disabled.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR OF THE DEPARTMENT*

A holistic perspective on the sexuality of the client with disabilities and his/her counseling process. Special emphasis is given to a developmental perspective of human sexuality and disability. Additionally, the etiology, malfunctions, and counseling processes of the sexuality of the person with disabilities will be studied. The role and function of the rehabilitation counselor working with the sexuality of the people with disabilities will also be discussed. 10-10-94

**CORE6041 - Ethical Decision-making Models in Rehabilitation Counseling.**

*One credits. Prerequisites: CORE6007, 6011, 6012*

This course discusses the ethical decision-making processes and critical thinking skills that rehabilitation counselors must cultivate. It takes the students on a journey from the principles and theoretical conceptual issues involved in ethical reasoning to the practical considerations that lead to ethical decision making in rehabilitation counseling. The course focuses on ethical decision-making in rehabilitation counseling and the importance of applying the principles of autonomy, beneficence, non-maleficence, justice, fidelity and truthfulness when reflecting on every ethical issue that presents itself. The course critically examines the code of ethics of the rehabilitation counselors. Examines board of Puerto Rico and a variety of ethical decision-making models for the purpose of applying them in various situations that the rehabilitation counselor may face.

**CORE6042 - Transition of The Person with Functional Diversity from School To Adult Life.**

*One credits. One hour of lecture one of discussion and one of workshop per week Prerequisites: CORE6007, CORE6005, CORE6008.*

This course provides students with a conceptual framework to understand the philosophy and principles that guide transition services in rehabilitation counseling. As a result, students will articulate the foundations of interdependence, inclusion, self-determination, empowerment, access and respect for individual differences. The legislation taxonomy standards and public policies associated with transition services are critically examined. Models for the transition and transition planning centered on the person are studied and analyzed. The course also emphasizes the importance of collaboration among professionals to ensure a successful transition. The student is expected to apply their knowledge through critical discussion and

analysis of readings, the design of a transition model and transition plans.

**CORE6048 - Independent Living: Rehabilitation Option for People with Severe Disabilities.**

*Three credits. Two hours of lecture and one hour for visiting facilities out of the campus.*

This course studies the rehabilitation process of individuals with severe disabilities giving emphasis to the independent living models and services with the goal of helping these individuals to achieve a full, productive, and independent life. Also, it discusses the importance of assistive technology and the rehabilitation process of individuals with severe disabilities. 16-08-99

**CORE6049 - Statistical Analysis and Research Designs.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

This course presents to the student various research designs and the statistical methods to be used in each case. (c) 10-10-94

**CORE6050 - Reasonable Accommodation and Assistive Technology in The Rehabilitation Processes.**

*Three credits. Three hours of lecture per week.*

The course presents the historical background and the legislation that impacts the processes of reasonable accommodations and the use of assistive technology. Reasonable accommodation and assistive technologies as a resource to improve quality of life and integrate the individual with functional diversity into employment, school and the community in general, will be analyzed. Also, different strategies will be applied to the development of reasonable accommodation plan, incorporating assistive technology as part of the process.

**CORE6051 - Assistive Technology in The Rehabilitation Process.**

*One credits. Three hours of lecture per week.*

The course presents the historical background and the legislation that impacts the processes of recommendation and use of assistive technology (at). Assistive technology will be discussed as a resource to improve the quality of life and integrate people with functional diversity in employment, school and the community in general.

**CORE6052 - Multicultural Counseling in Rehabilitation.**

*Two credits. Three hours of lecture per week Prerequisites: CORE 6012.*

The course presents the historical background of delivery, demographic changes and social dynamics that impact the counseling processes. It seeks to encourage the development of multicultural counseling skills through the self- awareness of biases, beliefs, values, and attitudes that may impact the counseling processes. Students will be exposed to current problems and constructions of diversity such as culture, national origin, language, physical appearance and ability, sexual, orientation, spirituality, socioeconomic status, among others. This course will be offered. New descriptions begin on August 2021.

**CORE6053 - Crises Intervention, Trauma Management and Protective Techniques.**

*Two credits. Three hours of seminar per week Prerequisites: CORE 6011 AND CORE 6012.*

This course will provide the student with the opportunity to explore various topics related to traumatic event and crises at different stages of life. A variety of topics can be manifested within crises, including grief, suicide, homicide, psychosis, natural disasters, man-made disasters and the person's coping mechanisms to the diversity of situations they face. The student will be exposed to various models of intervention in evidence-based crises in order to acquire skills to handle risk situations to which they can be exposed in the professional setting. The student will have the opportunity to prepare in a controlled environment with the purpose of knowing strategies in the management of emotions, use of protective techniques and at the

same time to the-escalate situations to avoid violence with clients, consumers, participants or patients who are working.

#### **CORE6054 - Case Management and Professional Ethics.**

*Three credits. Three hours of seminar per week Prerequisites: CORE6001, CORE 6002, CORE 6005, CORE 6006, CORE 6008, CORE 6011, CORE 6012, CORE 6016, CORE 6020, CORE 6035.*

This course is designed to provide an overview of case management practices and rehabilitation services in the vocational rehabilitation system, in private practice, as well as in other scenarios that provide counseling services to people with functional diversity. Throughout the course, the case management work is discussed as a critical component of the counselor's role in rehabilitation and the ethical dilemmas that the professional may face. The code of ethics of the board of examiners of rehabilitation counselors of Puerto Rico and some ethical decision-making models are examined critically with the purpose of applying them in various situations. In the course, the role of the rehabilitation counselor in the development and maintenance of effective labor relations will be explored, addressing case management situations, time management and organization, conceptualization analysis, case documentation, coordination and planning.

#### **CORE6056 - Managing People with Disability in A Disaster.**

*One credits. Three hours of lecture per week.*

The course is about rehabilitation counseling and its rationale for intervening with the population at risk in a natural or man-made disaster scenario. It also deals with the ministerial duty of this professional in carrying out various interventions with the population before, during and after the event, as established by the accrediting agency (cacrep) and the codes of ethics that govern the profession (pr and crc examining board).

#### **CORE6059 - Recovery Models for People with History in Substance Abuse.**

*One credits. Three hours of seminar per week.*

The course deals with the recovery process of the person diagnosed with a substance use disorder (lawful and illegal). The basics concepts, terminology, neurobiological foundations of addiction, treatment levels, the recovery process, deinstitutionalization and social insertion and the strategies for handling the problems associated with substance use are emphasized. The concepts and basic terminology associated with substance use disorder, abuse and disorder as described in DSM-V are discussed.

#### **CORE6060 - Independent Living Seminar: Philosophy, Legislation and Services.**

*One credits. Three hours of seminar per week Prerequisites: CORE 6001, CORE 6002, CORE 6007 AND CORE 6011.*

This seminar provides students with essential knowledge about independent living services as a medullar component for the rehabilitation goals of people with most significant disabilities. The philosophical, legal and theoretical basis of the independent living movement will be analyzed in order to promote comprehension on the programmatic and practical basis of the service programs. Most common assessment tools for independent living service needs will be discussed. Student will become knowledgeable of the state\local independent living services and programs. Students will identify and analyze challenges people with disabilities face as they attempt to achieve social immersion, community living, independent living, autonomy, self-advocacy and self-determination. The principal teaching method\strategy will consist of in depth and participatory discussion in the classroom in order to promote critical thinking about independent living services.

#### **CORE6085 - Professional Ethics.**

*Three credits. Three hours of seminar per week Prerequisites: CORE 6007 O 6011-6012*

Intends to help the student to understand the ethics codes of his/her profession. The ethical principles and professional issues concerned with the counseling relationship and clinical records will be discussed. The

ethical principle of confidentiality and its legal concomitants of privileged communication and the duty to warn will be broadly analyzed. Ethical issues related to disability and aids will be discussed as well. 10-10-94

**CORE6090 - Internship in Rehabilitation Counseling and Seminar In Professional Integration.**

*10 credits. Prerequisites: CORE6017.*

This course is a supervised practice experience through which the student is exposed to the different aspects of the helping process of the person with disabilities or with special needs. The nature of such impediments or needs can be physical, mental, emotional or social. It also offers the opportunity to apply the theoretical knowledge learned. The experience will take place in rehabilitation facilities, as well as in other institution and programs that provide services to people with disabilities and populations with special needs, at high risk of develop disabilities, or among those who may there are undiagnosed disabilities. The experience will comprise a minimum of 600 hours, of which 240 hours are direct service.

**CORE6091 - Internship in Rehabilitation Counseling and Seminar in Professional Integration.**

*5 credits. Prerequisites: CORE 6017, FOR STUDENT ATTENDING IRREGULAR PROGRAMING.*

This course is a supervised practice experience through which the student is exposed to the different aspects of the helping process of the person with disabilities or with special needs. The nature of such impediments or needs can be physical, mental, emotional or social. It also offers the opportunity to apply the theoretical knowledge learned. The experience will take place in rehabilitation facilities, as well as in other institutions and programs that provide services to people with disabilities and populations with special needs, at high risk of develop disabilities, or among those who may there are undiagnosed disabilities. The experience will comprise a minimum of 300 hours, equivalent to 5 academic credits, of which 120 hours are direct service. This practice experience will be supervised by a faculty member, with the certified rehabilitation counselor (crc) credential.

**CORE6092 - Internship in Rehabilitation Counseling and Seminar In Professional Integration.**

*5 credits. Prerequisites: CORE 6017- FOR STUDENTS ATTENDING IRREGULAR PROGRAMING.*

This course is a supervised practice experience through which the student is exposed to the different aspects of the helping process of the person with disabilities or with special needs. The nature of such impediments or needs. The nature of such impediments or needs can be physical, mental, emotional or social. It also offers the opportunity to apply the theoretical knowledge learned. The experience will take place in rehabilitation facilities, as well as in other institutions and programs that provide services to people with disabilities, or among those who may there are undiagnosed disabilities. The experience will comprise a minimum of 300 hours, equivalent to 5 academic credits, of which 120 hours are direct service. This practice experience will be supervised by a faculty member, with the certified rehabilitation counselor (crc) credential.

**CORE6095 - Consultation and Advocacy in The Rehabilitation Process.**

*Three credits. Three hours of lecture per week.*

The course provides for the skill development in analysis and critical thinking. Lecture in the areas of consultation and advocacy will be analyzed during the course. The professor will provide feedback on the oral and written works presented in class. The course will also provide the students, the opportunity to develop basic skills in the processes of consultation and advocacy through projects in the community.

**CORE8001 - Advanced Seminar on Theories and Techniques Of Rehabilitation Counseling.**

*Three credits. 45 hours of seminar per week.*

Course designed to provide the student with specialized knowledge of the main theories of counseling and psychotherapy and their applicability in individual clinical interventions with populations with functional diversity. The critical evaluation of these theories and associated techniques that are related to the student's own value system and the rehabilitation process will be promoted, considering the treatment based on

evidence and the use of scientific research carried out in the Puerto Rican context in the development of the evidence-based practice. Understanding of the ways in which techniques and strategies can be used to facilitate personal, professional life and social adaptation of people with functional diversity will be promoted. Critical appraisal of theories and techniques associated with clients and therapists from different cultural backgrounds will be encouraged. This course will be offered under the face-to-face and hybrid modalities.

**CORE8003 - Advanced Seminar on Group, Family and Systems.**

*Three credits. 45 hours of seminar per week Prerequisites: CORE 8001.*

This course is designed to provide an in-depth analysis of the behavior of specialized small groups and group interventions including families and systems that integrate people with functional diversity oriented for doctoral students in rehabilitation counseling. Theories and research in the group process (ebt, ebp) and aspects such as: leadership, power and influence, cohesion, group pressure, roles, conformity and change are studied; structures and multicultural aspects, among others. The implications of group theory are analyzed with emphasis on the Puerto Rican context. The learning methodology is through demonstration and experimentation. This course will be offered under face-to-face and hybrid modalities.

**CORE8005 - Consulting Leadership and Intercessory.**

*One credits. 15 hours of seminar per week Prerequisites: CORE 8021-ADVANCED REHABILITATION COUNSELING SEMINAR.*

The course discusses consulting and intercessory as indirect service models for the population of people with functional diversity. Through the analysis of various consulting models, the importance of this function for the rehabilitation counselor and the population to which they attend. The course provides for the development of basic consulting and intercessory skills and their relationship with leadership, through experience in the development of an intervention plan. Instead, the course promotes an understanding of the factors that can influence consultation interventions. In addition, ethical and cultural dilemmas in the consulting and intercessory. This course will be offered under the face-to-face and hybrid modalities.

**CORE8009 - Clinical Supervision in Rehabilitation Counseling and Health Professions.**

*Two credits. 30 hours of lecture per week Prerequisites: CORE 8001, 8003, 8021, 8023, 8025.*

The course presents the fundamentals of clinical supervision in the field of rehabilitation counseling and other health professions as a means of ensuring the well-being of the population which the services are provided. Supervision models and their considerations are discussed in regarding multi-cultural aspects, employment scenarios and research. In addition, aspects are worked related to ethics in supervision processes framed in the vision of supervision as a important resource in the development of professionals and in turn the development of professions. This course will be offered under the face-to-face and hybrid modalities.

**CORE8011 - Intermediate Statistics.**

*Three credits. Prerequisites: CORE 6049.*

Course designed to train doctoral students in the use, management and application of descriptive and inferential statistics to address the formulation of research problems within the discipline of rehabilitation counseling. They will develop knowledge and technical skills on the foundations and origin of inferential and multivariate statistics to attend to the hypothesis associated with the estimation and prediction processes of inferential statistics. In addition, you will develop skills in the analysis and interpretation of pure descriptive, descriptive-exploratory, descriptive-correlational and experimental research. Critical thinking skills related to the developmental of scientific investigations of the discipline will be promoted and the design, construction and interpretation of diagrams, tables and graphs will be worked in depth. This course will be offered under face-to-face and hybrid modalities.

**CORE8013 - Advanced Seminar on Quantitative Research Methodology.**

*Two credits. 30 hours of seminar per week Prerequisites: CORE 8011.*

Through the course the student will develop skills in the management of the theory an application of the design, analysis and interpretation of experimental quasi-experimental and mixed investigations. Similar, critical thinking skills related to the development of experimental research for the solution of situations that arise in the clinical and community environment when evaluating the quality of rehabilitation services will be promoted. Through the study and application of the scientific method, students will be able to design and carry out studies that contribute to the development of empirical evidence that supports legitimate practices, interventions and the quality of rehabilitation services for people with functional diversity. In addition, they will know and evaluate the threats to internal validity, as well as the ethical and legal aspects for the protection of human beings in an investigation. This course will be offered under the face-to-face and hybrid modalities.

**CORE8015 - Advanced Seminar on Qualitative Research Methodology.**

*Two credits. 30 hours of seminar per week.*

This seminar will examine elements of qualitative research from the perspective of rehabilitation counseling. Through the approach of qualitative methodology, the student body will explore the life experiences of people and systems with which they interact. Various qualitative research designs will be discussed and critically analyzed. Information gathering techniques and strategies will be examined in qualitative research to identify their strengths and weaknesses when working with people with functional diversity and rehabilitation systems. In addition, methods of analysis and interpretation in qualitative research and some existing programs to work with the analysis of qualitative data will be discussed. The ethical and legal principles related to qualitative research will also be discussed. This course will be offered under the face-to-face and hybrid modalities.

**CORE8017 - Seminar in Development of Rehabilitation Test and Scales.**

*Three credits. 45 hours of seminar per week Prerequisites: CORE 8011.*

The seminar will provide students with practical experiences and structured academic activities aimed at expanding theoretical and practical knowledge about the test development process. The student will develop the skills and knowledge to professionally evaluate the adequacy of existing assessment systems and develop new systems or test. For this purpose, the student will acquire conceptual and practical mastery of the psychometric properties that describe the adequacy and effectiveness of the test. In turn, it will be exposed to item analysis and factor analysis. Non-standardized measurement and evaluation will be a central part of the course as an instrument of social justice for the population of people with disabilities or functional diversity, legal, ethical and multicultural aspects related to standardized and non-standardized assessment will be analyzed. This course will be offered under the face-to-face and hybrid modalities.

**CORE8019 - Administration and Evaluation of Rehabilitation Programs.**

*Two credits. 30 hours of lecture per week.*

This course offers an overview of the administration and evaluation models of programs and services, the different approaches in program administration and evaluation will be discussed, including needs assessment, formative research, process evaluation, product and results monitoring, impact evaluation, and cost analysis. Through theoretical conceptualization and practical experiences in the classroom, the student will learn to design, administer and evaluate rehabilitation programs. In addition, you will discern the types of assessment, systems measurement, and data analysis that exist to address the needs of people with disabilities. This course will be offered under the face-to-face and hybrid.

**CORE8021 - Advanced Rehabilitation Counseling Seminar.**



*Three credits. 45 hours of seminar per week.*

This is an advanced course, designed to educate and involve students in the analysis of the characteristics that define the profile of professionals in rehabilitation counseling. The course examines various factors that affect the structure and dynamics of social welfare policies and services used in the profession. The course content includes philosophy, social values, ethics, legislation, disability adjustment, diversity and multiculturalism, social and economic justice, in service delivery. A critical-reflective approach to evidence-based knowledge is promoted as the guiding principle in the provision of services for social and vocational interaction and development of human capital in the population with functional diversity. This course will be offered under face-to-face and hybrid modalities.

### **CORE8023 - Advanced Seminar in Vocational Counseling for The Population With Functional Diversity.**

*Two credits. 30 hours of seminar per week.*

The course is part of the vision of work as a source of social integration for individuals. A critical analysis is made of the main theories and models of career development and their application to psychiatric conditions and the psychosocial, economic and ecological factors that influence in vocational selection and adjustment. The implications of career development in terms of public policy setting, resource allocation, local and national opportunities, and independent living skills are discussed. Factors that impact individual career development and the job market are explored in order to design a comprehensive and individualized career counseling plan. Ethical and legal aspects are discussed in career counseling processes. The course will be offered under the face-to-face and hybrid modalities.

### **CORE8025 - Advanced Seminar on Evaluation and Placement In Employment Of People With Disabilities.**

*Three credits. 45 hours of seminar per week.*

The course is designed to explore the evaluation processes that allow us to know the functional capacity of people with functional diversity, facilitating the promotion, search and placement in employment. It will provide practical experience in assessing the skill and abilities of people with functional diversity and in designing rehabilitation plans for job placement. In addition, other strategies will be discussed including, but not limited to identification of support systems, pre-placement analysis, job analysis, skills transfer, and reasonable accommodation. Emphasis will be placed on advocacy skills development, interpretation, and report writing. The ethical and legal issues of the evaluation processes and job placement of people with functional diversity will also be addressed. This course will be offered under face-to-face and hybrid modalities.

### **CORE8027 - Psychosocial Models of Adjustment to Disability and Diagnosis of Functional Capacity In People With Disabilities.**

*Three credits. 45 hours of seminar per week.*

This course emphasizes the evaluation of the stage of psychosocial adjustment in which the person with disabilities and his\her family are, considering psychosocial and cultural aspects. For this task the student will analyze from a critical perspective various adjustment models based on the following: profile of the individual and family, context, necessary skills and scientific evidence. He will also carry out a diagnosis of functional capacity from a biopsychosocial perspective considering the strengths, barriers, compensatory skills, transferable skills and internal and external moderating variables to the individual, among others with the purpose of promoting their quality of life, potential and social integration. The student will carry out at least one real intervention during the course, conceptualization and presentation of the case promoting evidence-based practice and following the ethical canons of the profession. This course will be offered under the face-to-face and hybrid modality.

**CORE8030 - Psychopathology, Addiction and Mental Health.**

*Three credits. 45 hours of lecture per week.*

The course will discuss the most prevalent psychopathologies in pr, their effects on personal, social, family and wok areas. The symptomatology, diagnostic criteria and etiological perspectives of mental health disorders will be examined, including the influence of psychosocial, cultural and biological factors on them emphasis will be placed on the evolutionary perspective of mental health disorders, which provides for an integration of the various factors that must be considered when designing a psychosocial rehabilitation plan. The subject of concurrent diseases, addictions to illegal or legal substances, and the examination of the mental state will be studied as the basic tool for the collection of information on psychopathology. Diagnostic classification systems such as DSM and ICD, and effective treatments and psychotherapies according to EBP will be worked on. This course will be offered under the face-to-face and hybrid modalities.

**CORE8036 - Intervention, Treatment and Recovery in Psychiatric Rehabilitation.**

*Three credits. Three hours of lecture per week.*

The course is designed to develop skills in the intervention, treatment and recovery of people with serious and persistent mental health conditions. The importance of treatment, case management and rehabilitation as facilitators of recovery will be conceptually emphasized. The support systems necessary for the person to have an independent life, maintain a job and develop meaningful interpersonal relationships will be analyzed. It will work with the design and implementation of person-centered biopsychosocial rehabilitation plans and life care planning. In addition, a variety of interventions will be examined, including, but not limited to: social and behavioral skills training, peer support and monitoring, club houses, psychoeducational intervention, and individuals supportive therapy, group and family. This course will be offered under face-to-face and hybrid modalities.

**CORE8039 - Correctional Rehabilitation and Social Reintegration.**

*Three credits. 45 hours of seminar per week.*

This is an advanced seminar, designed to educate and engage students in analyzing the role of the rehabilitation counselor in the practice of rehabilitation. Several factors are examined that influence criminal predisposition, its management and transition services aimed at social reintegration adequate. Course content includes philosophy, intervention models, legislation, ethics, and trends emerging legal\therapeutic services in the provision of services. A critical-reflective approach to the evidence-based knowledge as the guiding principle in the provision of social reintegration services for confided people. The course emphasizes intervention with the population with functional diversity. This course will be offered face-to-face and hybrid modalities.

**CORE8040 - Neurodevelopmental Disorders.**

*Three credits. 45 hours of lecture per week*

The course will provide with academic activities aimed at expanding theoretical and practical knowledge about neurodevelopmental disorders. Among the disorders that will be studied are: intellectual disability, autism spectrum disorders, epilepsy, cerebral palsy, learning disorders and attention deficit hyperactivity disorder. These be critically analyzed in terms of their evolution throughout life taking into consideration natural and structured support systems. Each disorder will be examined in terms of the effects it may have on the perceptual, cognitive, sensorimotor and neurobehavioral capacities of the person in order to identify the functional, social, educational, vocational and emotional challenges that they suggest when developing rehabilitation plans. Related legal, ethical and multicultural aspects will be analyzed. This course will be offered under the face-to-face and hybrid modalities.

**CORE8045 - Advanced Seminar on Transitional Processes and Services and Independent Living for Young People, Adults and Old People with Neurodevelopment Disorders.**

*Three credits. 45 hours of seminar per week Prerequisites: CORE 8040.*

The seminar provides students with an evolutionary, in-depth and practical approach in the application of transition services and independent living in people with neurodevelopmental disorders. The students will develop their capacity to adapt, create and apply models of transition services and independent living for people with disabilities throughout the life span. The challenges that neurodevelopmental disorders present to people, their support systems, and government and private service structures will be systematically analyzed. From an evolutionary, ecological and critical perspective, students will reformulate transitional and independent living services to propose person-centered rehabilitation plans that respond to the challenges associated with neurodevelopmental disorders. This course will be offered under the face-to-face and hybrid modalities.

### **CORE8055 - Adherence to Treatment and Coping Strategies on Chronic Diseases.**

*Three credits. Seminar course.*

The seminar will discuss the different factors that can influence a person to present adherence to treatment, or compliance with medical prescriptions. Changes in lifestyles, the demands associated with the most prevalent chronic diseases on the island, the different coping styles that a person uses to manage the stress caused by knowing their disease, the prognosis of the disease, the required treatments, among others, will be studied. The student will identify, through the initial interview and/or various measurement instruments, the factors that influence whether or not the patient present the expected behaviors and the coping styles that they are using to comply or not comply with what is stipulated by the medical team. They will develop an intervention \rehabilitation plan to work with the objective of improving their treatment. This course will be offered under the face-to-face and hybrid modalities.

### **CORE8058 - Implications of Pharmacological Treatment in The Rehabilitation and Recovery Process.**

*Three credits. 45 hours of seminar per week.*

In the seminar, the student will identify the physical, emotional and social implications of the effects of the pharmacological treatment prescribed for the chronic diseases (physical and mental) with the highest prevalence in pr. This includes knowing the side effects of medications and the possible interactions between some of them. In addition, it will work with the selection of appropriate strategies so that the patient can manage the side effects and interactions between some of the medications and start their recovery process. The seizure and management of the disease is worked on and not only the stabilization of the symptoms, which results in social, family and community integration. This course will be offered under face-to-face, and hybrid modalities.

### **CORE8070 - Practicum on Teaching and Research.**

*One credits. 75 hours of supervised practice\clinic per week Prerequisites: CORE 8021, 8001, 8003, 8023, 8025.*

This seminar focuses on various models, perspectives, research, and techniques related to learning to teach in higher education. Issues related to values, beliefs, pedagogical techniques, earning styles, as well as how to structure, deliver and evaluate teaching will be examined. Students will develop essential concepts and strategies related to the organization and presentation of concepts in a practical and effective style applicable to the field of knowledge of rehabilitation counseling. During their 75 hours of practical experience, the student will be responsible for teaching a course (graduate or under- graduate in co-teaching mode) of credits, under the mentorship of a faculty supervisor. Activities include, but not limited to, course observation, developing class samples, developing rubrics, and more. This course will be offered under the face-to-face and hybrid modalities.

### **CORE8072 - Advanced Practicum on Clinical Supervision.**

*Two credits. 100 hours of supervised practice\clinic Prerequisites: CORE 8021, 8001,8003, 8023, 8025.*

During the course doctoral students will have the opportunity to apply the concepts learned in the core 8009, clinical supervision in rehabilitation counseling and health professions. The student will examine the council for accreditation of counseling and related educational programs (cacrep) standards and how they apply to advanced clinical experience monitoring processes. During his 100 hours of practical experience, the student will be responsible for establishing a supervision model, developing evaluation methods, as well as the documents necessary for effective, supervision, under the supervision of a professor. This course will be offered under the face-to-face and hybrid modalities.

#### **CORE8074 - Doctoral Internship in Rehabilitation Counseling.**

*Six credits. 22.5 hours of supervision and 600 hours of practice Prerequisites: CORE8021, CORE8001, CORE8003, CORE8023, CORE8025, CORE8005, CORE8009, CORE8027, CORE8011, CORE8013, CORE8015.*

This course is an integrative experience in which students are provided the opportunity to demonstrate, under supervision, that they possess the ability to integrate knowledge and skills by offering a variety of rehabilitation services. The practice setting will provide the student body with the opportunity to work with: a diversity of situations or participants, a variety of problems under different types of rehabilitation service programs, through the use of different rehabilitation counseling intervention. The student will be able to direct his practical experience towards and area of specialty, so he can choose between psychiatric rehabilitation, neurodevelopmental disorders or chronic diseases. The experience will comprise a minimum of 600 hours, of which 250 are direct services. It constitutes a full load for the student. The course will be offered in the face-to-face and hybrid modality.

#### **CORE8075 - Doctoral Internship in Rehabilitation counseling I.**

*Three credits. 300 hours of internship per week Prerequisites: CORE 8021,8001,8003,8023,8025,8005,8009,8027,8011,8013,8015, 8017,8019.*

This course is an integrative experience in which students are provide the opportunity to demonstrate, under supervision, that they possess the ability to integrate knowledge and skills by offering a variety of rehabilitation services. The practice setting will provide the student body with the opportunity to work with: a diversity of situations or participants, a variety of problems under different types of rehabilitation service programs, through the use of different rehabilitation counseling interventions. The student will be able to direct his practical experience towards an area of specialty, so he can choose between psychiatric rehabilitation, neurodevelopmental disorders or chronic diseases. The experience will comprise a minimum of 300 hours, of which 125 are direct service. It constitutes full load for the student. The course will be offered in the face-to-face and hybrid modality.

#### **CORE8076 - Doctoral Internship on Rehabilitation Counseling Ii.**

*Three credits. 300 hours of internship per week Prerequisites: CORE 8021,8001,8003,8023,8025,8005,8009,8027,8011,8013.*

This course is an integrative experience in which students are provided the opportunity to demonstrate, under supervision, that they possess the ability to integrate knowledge and skills by offering a variety of rehabilitation services. The practice setting will provide the student body with the opportunity to work with: a diversity of situations or participants, a variety of problems under different types of rehabilitation service programs, through the use of different rehabilitation counseling interventions. The student will be able to direct his practical experience towards an area of specialty, so he can choose between psychiatric rehabilitation, neurodevelopmental disorders or chronic diseases. The experience will comprise a minimum of 300 hours, of which 125 are direct service. It constitutes a full load for the student. The course will be offered in the face-to-face and hybrid modality.

#### **CORE8081 - Doctoral Dissertation Continued.**

*No credits. Prerequisites: CORE 8990.*

This course is designed to allow the student to complete their dissertation. Work. At this the student must complete the compilation of the necessary data and work with the information processing. Once the analysis is done, she will interpret the results in light of the literature review and her experience. Upon completion of this process, she will present the conclusions, implications, and recommendations for rehabilitation counseling. The student will make presentation and defend her work before their dissertation committee. It constitutes a full load for the student. This course may be offered under the face-to-face, hybrid and online modalities. This course it constitutes a full load for the student.

### **CORE8990 - Doctoral Dissertation.**

*Three credits. Prerequisites: ALL CORE COURSES AND CANDIDATURE EXAMINATION.*

The course will allow the student to demonstrate their competencies in quantitative, qualitative or mixed research processes, committing them to make an original contribution to the body of knowledge of the rehabilitation counseling profession with an emphasis on psychiatric rehabilitation, neurodevelopmental disorders and chronic diseases. The work will be designed, developed, analyzed and written by the student. The student will choose a dissertation director from among the members of the faculty and together with him will select two other members to constitute the committee. It constitutes full load for the student. This course will be offered under face-to-face, hybrid and distance mode.

### **ECON6005 - Principles of Economic Theory.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR OF THE DEPARTMENT.*

An accelerated and rigorous introduction to the principles of macroeconomic and microeconomic theory, its methodology and tools. This course is geared for students entering the graduate program with none or limited familiarization with economic theory. This course does not count within the minimum number of credit hours needed for the master's degree. Course face-to-face, hybrid and online modalities. 10-10-94

### **ECON6007 - Economy of Puerto Rico.**

*Three credits. Three hours of lecture per week*

Analysis of Puerto Rico main economic problem by its characteristics and tendencies. The course of study includes its geography and economic history, the role of agriculture, land tenure, demographic variables and their interrelations to its economic development, public revenues and expenditures, banking and credit institutions, transportation and communications, net income, gross product and balance of payments, industrial development, and government's economic policies. 10-10-94

### **ECON6015 - History of Economic Thought.**

*Three credits.*

Critical analysis of the great schools of economic thought since Adam Smith, and the contributions of their major exponents in the light of the political, economic and intellectual environment in which they lived. 10-10-94

### **ECON6031 - Economic Theory.**

*Three credits. Three hours of lecture per week Prerequisites: ADMITTED TO THE GRADUATE PROGRAM.*

A critical analysis of the principal tenets of micro and macroeconomic. Topics to be discussed in microeconomics included: demand analysis, neoclassic production theory, market structure, general equilibrium and welfare economics interest and capital theory and decision theory. Topics in macroeconomics include consumption and investment theories, static Keynesian equilibrium, Kaldor's semi-dynamic system, the macro-dynamics of economic growth, the Keynesian theory in the 1970's. 10-10-94

**ECON6032 - Economic Theory.**

*Three credits. Three hours of lecture per week Prerequisites: ADMITTED TO THE GRADUATE PROGRAM.*

A critical analysis of the principal tenets of micro and macroeconomics. Topics to be discussed in microeconomics include demand analysis, neoclassical production theory, market structure, general equilibrium and welfare economic interest and capital theory and decision theory. Topics in macroeconomics include consumption and investment theories, static Keynesian equilibrium, Kaldor's semi- dynamic system, the macro-dynamics of economic growth, the Keynesian theory in the 1970's. 10-10-94

**ECON6035 - Mathematical Economics.**

*Three credits. Three hours of lecture and two hours of laboratory per week.*

The course of mathematical economics will use the language of mathematics to describe the diverse situations that arise in the economy. This is because the mathematical arguments are logical and exact, which allows to handle with enough precision the results of the economic hypotheses. It is for this reason, that the mathematical models that try to explain economic phenomena have become indispensable tools in economic science. Their language as much as their techniques, allow to analyze situations and to solve problems that, otherwise, could not be faced effectively. The following methods will be applied to solve different economic problems: differential equations and finite difference equations of first and higher order, non-linear programming, calculus of variations, optimal control theory and game theory.

**ECON6051 - Statistics And.**

*Econometrics. credits.*

Examination of modern statistical for the analysis of quantitative data, with emphasis on the logic of procedures and the application of statistical concepts and techniques to the analysis of economic problems

**ECON6052 - Statistics And.**

*Econometrics. credits.*

Examination of modern statistical methods for the analysis of quantitative data, with emphasis on the logic of procedures and application of statistical concepts and techniques to the analysis of economic problems.

**ECON6070 - Research Seminar.**

*3 credits.*

This seminar is intended to: advice the student in the process of defining and developing a research topic conducive to a thesis proposal, familiarize the student with thesis presentation and professional writing styles, according to the main journals of the profession; train the student in the use of different methods of information research and bibliography preparation, and create awareness of the fundamental precepts of research ethics. The course requires to present a thesis proposal or an original essay that demonstrate his/her capacity to begin working on the master thesis.

**ECON6080 - Research Seminar II.**

*3 credits. Prerequisites: ECON6070*

This seminar is intended to give the student opportunity to acquire knowledge and skills in economic research, as well as confidence in their ability, through direct experiences and frank criticism and discussion of these with his or her advisor. The students will use this seminar to develop their thesis research. It is recommended that during this seminar the student prepares for the defense of his/her thesis proposal.

**ECON6085 - Economic Growth.**

*Three credits. Three hours of lecture per week Prerequisites: ECON6031 Y 6032.*

In this course the dynamics of economic growth in the long run is studied. The various theoretical paradigms as some mathematical tools necessary to an understanding of the subject are examined. Will emphasize the

models studied both in the sources of economic growth, as well as the dynamic characteristics thereof. In the course, various aspects of economic modeling of the various theories of economic growth were also discussed. In addition, some empirical literature on the subject to help students in applying the theories studied will be discussed.

### **ECON6090 - Seminar: Environmental Economics.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM*

The purpose of this course is to introduce students to the theoretical and practical issues that are involved in the control of environmental externalities. They will read and discuss in class different books and articles. The course perspective is quite broad, since the research includes the political and bureaucratic dimensions with regard to decision making on environmental control institutions in a dynamic world. This requires an investigation of the incentives that may have different key elements during the various stages of the control process. It is also necessary to evaluate the transaction costs associated with the various alternatives. Finally, we analyze the process of acquiring information and the incentive to those who possess and produce such information.

### **ECON6095 - Natural Resources Economics.**

*Three credits. Three hours of discussion per week Prerequisites: PERMISSION OF THE PROFESSOR.*

Analysis of theoretical models applied to economic development problems and the management of natural resources; the importance of natural resources used in different economics sectors and their impact in economic principles applied in the efficient use of resources, such as water, land, forest and ocean; the consideration of economic analysis in public policy related to the management and conservation of natural resources. 12-08-97

### **ECON6111 - International Trade: Theory And.**

*Practice. credits.*

The distinction between internal exchange and foreign trade. The historical antecedents of the pure theory of international trade: medieval concepts, mercantilism, physiocracy; absolute and comparative advantages; the classical and neoclassical theories of international trade; the theory of commercial policy: tariffs, quotas, economic integration.

### **ECON6112 - International Trade: Policy and Finance.**

*3 credits.*

The international balance of payments; the pure mechanism of international financial adjustment: flexible exchange rates, the pure gold standard; interaction between foreign trade and national income; the mixed mechanism of adjustment: the gold exchange standard; devaluation and its effects; difficulties of the pre-1972 adjustments mechanism, liquidity crisis, asymmetry of the adjustment mechanism, current events in international finance; the progress of international negotiation toward new international monetary systems. Course face-to-face, hybrid and online modalities.

### **ECON6125 - Public Finance and Fiscal.**

*Policy. credits.*

Analysis of the major theories, emphasis the theory of public goods and the principles and problems of governmental revenue and expenditure activities. Special attention to problems of stability and growth, with particular reference to developing economies.

### **ECON6130 - Seminar Public Finance and Fiscal Policy.**

*3 credits.*

Critical analysis of topics related to the theories of public revenues and expenditures. Feasibility and limits of

fiscal policies.

**ECON6131 - Advanced.**

*Micro-economics. credits. Prerequisites: ECON6031.*

Selected problems in advanced price and distribution theory, theory of the firm, and welfare economics. Among other problems, the course will cover the advanced theory of consumption including Samuelson's revealed preference; stability test for the household, the exchange and the firm; the business firm under dynamic conditions involving uncertainty, risk and discounting; stability test for dynamics including Samuelson's correspondence principle; welfare maximization tests.

**ECON6132 - Advanced.**

*Macro-economics. credits. Prerequisites: ECON6032.*

In-depth analysis of several topics in macro-economic theory previously discussed in econ6031-32 introduction and analysis of advanced topics in macro-economic theory.

**ECON6135 - Monetary Theory And.**

*Policy. credits.*

The role of money and credit in the economic system, including the international monetary system. Money and credit as determinants of price, demand, level of employment; theoretical considerations. Significance of monetary policy and monetary theory. Examination of national and international stabilization policies.

**ECON6140 - Seminar: Monetary Theory And.**

*Policy. credits. Prerequisites: ECON6135 OR THE EQUIVALENT.*

Critical analysis of topics related to monetary theory and policy, as well as to national and international stabilization policies.

**ECON6145 - Economic.**

*History. credits.*

The development of economic processes and institutions within the last two hundred years, with emphasis on the western world.

**ECON6150 - Seminar: Economic Problems And.**

*Policy. credits.*

Analysis of important issues in public policy in economic affairs, such as economic opportunity and motivation; governmental intervention for economic stability and progress; national and international economic development; consumption levels and capital formation. Special emphasis on conditions in Puerto Rico.

**ECON6151 - Economic Development: Theory And.**

*Problems. credits.*

Analysis of the economic problems of the less developed countries of Africa, Asia, and Latin America. Distinction between growth and development. The classical, neoclassical, and modern theories of economic growth. Theories of economic development: the role of capital, human resources, natural resources, social factors, and technology. The external sector and economic development; theoretical issues in the trade of less developed countries and in foreign aid.

**ECON6152 - Economic Development: Planning.**

*3 credits. Three hours of lecture per week.*

Analysis of the principal policy problems facing less developed countries choices among multiple objectives;



the role of planning; the public and the private sector; employment maximization versus output maximization; inflation versus stagnation; problems of regional development and of income distribution.

### **ECON6175 - Demographic Economics.**

*3 credits.*

Demographic changes have a direct effect in countries development and their economies. In recent years, the United States and Puerto Rico have experienced dramatic changes in the composition and level of their populations this course will provide theoretical basis to graduate students who are interested in conducting population studies, its impact on the economy and vice versa. The topics to be worked technically and rigorously, with particular emphasis on census and other globally accepted measures. Through lectures, academic readings and research, students will learn about the world population situation and its biggest challenges as the environment, the aging population, health, the crisis of the retirement systems and famine, among others.

### **ECON6195 - Comparative Economic.**

*Systems. credits.*

Detailed and critical study of the theory and policy of various types of economic systems.

### **ECON6275 - Reading Course.**

*3 credits. Prerequisites: ADMISSION TO THE PROGRAM*

Special course for students who wish to pursue a topic area of study that has not been covered in other courses. Students will work independently by agreement with the professor.

### **ECON6276 - Reading Course II.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM*

Special course that provides an additional option for students who wish to pursue a topic or area of study that has not been covered in other courses. Students will work independently by agreement with the professor.

### **ECON6295 - Project Evaluation and Benefit-cost.**

*Techniques. credits.*

The theory behind benefit-cost techniques as applied to the evaluation of projects. Among the topics to be treated are intemporal evaluation of benefits and cost, project evaluation from the public versus the commercial viewpoint, shadow prices, investment algorithms, etc. Intensive case studies, in which the techniques and concepts learned in the course may be applied.

### **ECON6305 - Financial Economics.**

*Three credits. Three hours of discussion per week Prerequisites: ECON 4382*

Analysis of the financial instruments market. This analysis is integrated with the determination of interest rates and security prices. The course includes the study of futures contracts, options, swaps, the immunization of portfolios and other risk management instruments. The money and capital markets are studied with relation to other markets and sectors of the economy. 19-08-96

### **ECON6410 - Seminar: Economic Integration of The Caribbean.**

*3 credits.*

A critical analysis of the concepts and forms of economic integration. Various approaches to integration; past experiences; free trade areas customs unions; common market and complete integration. Economic integration between developed and developing countries. Problems of economic integration in the Caribbean. The general economic background of Caribbean countries; possible objectives of a Caribbean

integration program. Problems confronting the Caribbean countries. Trade and development pattern of these countries.

#### **ECON6496 - Micro econometrics.**

*Three credits. Three hours of lecture per week Prerequisites: ECON 6031, ECON 6051.*

This course is an introduction to econometric methods used primarily in applications of microeconomics. These techniques are used primarily with cross-sectional data, although some applications with observations exist over time. In the course, topics such as linear probability model, the logistic regression models with the normal distribution (logit and probit models), extreme value models are studied. Also, multiple response models, models with limited dependent variable and panel data are studied.

#### **ECON6497 - Macro econometrics.**

*3 credits. Three hours of lecture per week Prerequisites: ECON 6051*

In addition to closing the gap between the courses of macroeconomics and econometry, the development of the stochastic macroeconomics has generated a great accumulation of new models. This has motivated the development of econometrics techniques to test these models. The time series econometrics techniques are discussed in the macro econometrics course. These include granger non-causality test, cointegration, decomposition of a series between permanent and transitory elements, expectations and efficient market models, and economic cycle analysis.

#### **ECON6515 - Agricultural Development in Underdeveloped.**

*Countries. credits.*

Influence of agriculture on economic growth; influence of the physical, cultural and institutional characteristics of the economy on agricultural productivity. Interaction between the agricultural and industrial sectors in the process.

#### **ECON6550 - Seminar: Economic Forecasting And.**

*Planning. credits.*

Theory and techniques of forecasting and planning in a developing economy. Major topics to be considered include scope of general economic planning and forecasting, human resources planning, planning of agricultural and industrial development, planning for public services and supporting industries, planning for social and physical welfare, regional economic planning, the development plan. Emphasis on practical work in the programming of scarce government resources and of the economy. Students are expected to complete projects which will result in a unified economic development plan.

#### **ECON6555 - Comparative Health Care Systems.**

*Three credits. Three hours of lecture per week.*

Puerto Rico and United States are among the countries with the highest per capita expenditures on health care, however, the latter have extremely poor health outcomes especially when compared to what other countries have achieved with far less resources. This course is designed for graduate students to explore and compare some of the health systems that exist throughout the world. In class lectures, textbooks, scientific articles and academic research will be used to enable students to understand and evaluate the characteristics, problems and possible reforms to these health systems. These evaluations will study several countries of different economic systems, framed in the special characteristics of existing and proposed models as well as their history, demography, politics, social organization and economic characteristics.

#### **ECON6675 - Planning and Industrial Development in Developing.**

*Countries. credits.*

The strategy of industrial development. Major emphasis of planning decisions involving a project selection,

import substitution, and export expansion. Additional considerations are the factors determining technology transfer and the role of technical and financial assistance in the industrialization process.

**ECON6695 - Economic Aspects of Urban Regional Development.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE COUNSELOR.*

The objective of the course is not to prepare urban economist but rather to provide graduate economist with a new urban-regional dimension in which to use the analytical tools which are at his disposal. This course proposed to focus economic decision-making instruments on the micro-region development process which is the city. Which economic instruments are valid in determining distribution of new investments to a given urban center. How the concept of economic space enters into the urban development process. What the economic aspect of urban development; the role of the city is in national development. 10-10-94

**ECON6715 - Production Function Analysis and Programming.**

*3 credits. Three hours of lecture per week.*

Static and dynamic production theory. Aggregate production functions and theory of choice in production under relaxed assumptions. Factor-product, factor-factor and product-product relationships. Development of resource allocation models. Optimization of firm production and determination of optimum firm size. Development of linear programming models.

**ECON6735 - Computer Programming for The Economists.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESOR OR ECON 6051.*

This course is designed to facilitate solutions to research problems in social sciences in general and in economics in particular. The course will emphasize methodological and conceptual aspects of quantitative analysis. PL1 is to be taught; this modern programming language will be used for problem solving, data modification and analysis, and in the construction of simulation models. Students will be exposed to various canned programs which are potentially useful for economists and social scientists. 10-10-94

**ECON6895 - Industrial Organization.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUTE PROGRAM.*

A critical study of the industrial organization and structure of the economy, including the following related issues: industrial location, the distribution of income and wealth, and the government and its public policy towards economic power. 10-10-94

**ECON6900 - Comprehensive Examination.**

*No credits. Prerequisites: ECON6031, 6032, 6051 Y 6052.*

Consists on defending the thesis proposal.

**ECON6955 - Thesis in Progress.**

*None credits. Prerequisites: ECON 6080.*

This is a control-course in which all students actively working on their theses should be registered to have the right to use university facilities including thesis supervision by their thesis counselors. 10-10-94

**PSIC6005 - Theories of Personality.**

*Three credits.*

A critical examination of problems, theories, and research which help to clarify the role of motivation in personality. 10-10-94

**PSIC6006 - Statistics Applied to Psychology.**

*Three credits.*

Statistical methods and their applications in the field of psychological research. The collection, organization and analysis of data; frequency distribution; measures of central tendency; dispersion, skewness, and kurtosis, theoretical distributions. Binomial, normal, and poisson; sampling distributions; tests of hypothesis for large and small samples; point and interval estimation. (c) 10-10-94

**PSIC6007 - Seminar: Methods in Psychological Research.**

*Three credits. Three hours of lecture per week*

An examination of the basic methods of research in psychology with examples of the more commonly used techniques. Discussion of such topics as controls in psychological research, the concepts of explanation and prediction, practical aspects of different research problems, the selection of areas, methods and topics of psychological research. 10-10-94

**PSIC6008 - Thesis Work.**

*None credits. Meeting by common consent Prerequisites: PSYC 6010*

The course is designed to provide advice and assistance to students working on the different phases of their thesis research, including thesis preparation and writing. The student will enroll each semester while the thesis preparation is going on. (c) 10-10-94

**PSIC6009 - Proseminar in General Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

The purpose of this course is to give the student a brief survey of the eight main areas in psychology that comprise what is typically taught in a course entitled general or introductory psychology. The areas to be covered are: history and systems, sensation and perception, physiological psychology, learning, personality, developmental psychology, abnormal psychology, social psychology. These areas will be covered in five weeks (four hours per week). (c) 10-10-94

**PSIC6010 - Thesis Seminar.**

*Three credits. Prerequisites: PSYC 6007*

Refines the creative and critical abilities of the student. Cultivates dialogue and scientific expositions both orally and in writing. It will require the individual presentation of the research proposal of the master's candidates for critical examination by the panel of professors and classmates. (c) 10-10-94

**PSIC6015 - Proseminar in General Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

The purpose of this course is to give the student a brief survey of the eight main areas in psychology that comprise what is typically taught in a course entitled general or introductory psychology. The areas to be covered are: history and systems, sensation and perception, physiological psychology, learning personality, developmental psychology, abnormal psychology, social psychology. These areas will be covered throughout the course of two semesters. Each area will be covered in five weeks (four hours per week). 10-10-94

**PSIC6020 - Proseminar in General and Applied Psychology: Principles Of Psychological Measurement.**

*One credits. 16 hours of lecture per semester*

One credits. 16 hours of lecture per semester

**PSIC6025 - Psychosocial Approach to The Study of Organizational Behavior.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE DOCTORAL PROGRAM.*

Traditional organizational behavior topics are quickly covered: organizational design, motivation, satisfaction, communication, conflict and others. Methods that have been used to facilitate organizational change are

amply discussed. Current administrative practice is critically evaluated, and an effort is made to identify and question the ideology or set of values that informs such practice. The negative consequences of that ideology are illustrated, and it is submitted that perhaps the tendency of the human being to unilaterally control his/her situation is precisely behind organizational ineffectiveness. The group is invited to invent and explore control models that lead to effectiveness. 10-10-94

**PSIC6026 - Psychological Approach to Organizational Development and Change.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6025*

The course explores various models that produce information related to organizational development and change. It is expected that these models will be compared and evaluated so that the student will become familiar with them and will be willing to begin exploratory efforts to apply some of them. 10-10-94

**PSIC6030 - Proseminar in General and Applied Psychology: Ethical Issues in Psychology.**

*One credits. 16 hours of lecture per semester*

The course shall familiarize the student with the problems and considerations to be taken in the construction development and application of an ethical implications of utilizing diverse models of man as illustrated in the different psychological paradigms shall be examined. Class case discussions, situations and paradoxes in the professional practice of psychology shall be covered. (c) 10-10-94

**PSIC6040 - Proseminar in General and Applied Psychology: Principles of Supervision.**

*One credits. 16 hours of lecture per semester*

Some of the most relevant theories of administration and supervision will be covered. Also, some basic concepts like organizational objectives, planning, control coordination of work and evaluation of organization effectiveness. This unit will be conducted mainly through readings, case discussion, and role playing. Course face-to-face, hybrid and online modalities. 10-10-94

**PSIC6050 - Proseminar in General and Applied Psychology: Principles of Consultation.**

*One credits. 16 hours of lecture per semester*

This module aims to familiarize the student with models of consultation with the purpose of acquainting him with the basic goals and skills of this process and providing opportunities for its application to situations requiring the assistance of a psychologist. 10-10-94

**PSIC6060 - Proseminar in General and Applied Psychology: Evaluation of Programs and Services.**

*One credits. 16 hours of lecture per week*

One credits. 16 hours of lecture per week

**PSIC6070 - Proseminar in General and Applied Psychology: Puerto Rican Society and Culture.**

*One credits. 16 hours of lecture per week*

This module aims to familiarize the student with the effects of Puerto Rican socio-cultural variables on individual and group behavior. Emphasis is made on the professional interventions of the clinical psychologist. 10-10-94

**PSIC6080 - Proseminar in General and Applied Psychology: Personnel Evaluation.**

*One credits. One hour of lecture per week*

Study of performance evaluation as a system; methods and techniques used. Course face-to-face, hybrid and online modalities. 10-10-94

**PSIC6090 - Proseminar in General and Applied Psychology: Identification of Needs and Resources.**

*One credits. One hour of lecture and one hour of laboratory work per week*

The course intends to provide a critical and conceptual framework about needs and resources assessment. The course is also aimed to familiarize the student with different methods and models of assessing needs. 10-10-94

**PSIC6105 - Advanced Social Psychology.**

*Three credits. Three hours of lecture per week*

The course attempts to construct a theoretical as well as a methodological orientation to understand the social construction of reality. Students will be familiarized with major theories, particularly ethnomethodology and symbolic interactionism, and will delve on selected topics such as deviance and social control, attitudes, communication, attribution, social comparison, social movements, and ideology. An effort will be made to provide literature on Puerto Rico to illustrate the topics above. (c) 10-10-94

**PSIC6106 - Community Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT*

The course aims to prepare the future psychologist in the analysis of the psychosocial problems of communities and their solutions. 10-10-94

**PSIC6107 - Cross-cultural Social Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: B.A. IN PSYCHOLOGY*

Three credits. Three hours of lecture per week Prerequisites: B.A. IN PSYCHOLOGY

**PSIC6108 - Psychology, Society and Health.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: PSYC 6106*

Analysis of the socio-economic conditions, the organizations and social views which affect the health-disease conditions in Puerto Rico and other American countries. The role of the psychologist in this problematic. 10-10-94

**PSIC6109 - The Group as Instrument of Social Intervention.**

*Three credits. Two hours of lecture and three hours of laboratory work per week Prerequisites: PSYC 6105, 6106*

The course will study the application of group theory to facilitate different types of change: psychological, social, organizational, institutional, and community. 10-10-94

**PSIC6110 - Seminar: The Psychological Analysis of The Social and Cultural Changes In Puerto Rico.**

*Three credits. Three hours of lecture per week*

The purpose of the seminar is to gather pertinent information concerning the indicators of change in Puerto Rico such as the study of the historical background of Puerto Rican society in its basic delineations, population, migration and immigration, urbanism, poverty, slums, social stratification, education, housing, employment and unemployment, industrialization and modernization. Those themes or change indicators among others will be analyzed on the basis of the objective information to be gathered through the literature of studies with psychological emphasis which have been carried out in Puerto Rico and outside of Puerto Rico. It shall explore how the changes in these areas affect the interpersonal relations, the people's development the formation of beliefs and values, and living together in Puerto Rico. 10-10-94

**PSIC6115 - Analysis of Strategies for The Management Of Conflicts And Crises.**

*Three credits. Three hours of lecture per week*

Conceptual and formal analysis for the management of interpersonal, group, and community conflicts. 10-10-94

**PSIC6116 - Practicum on Strategies for The Management of Conflicts and Crises.**

*None credits. Prerequisites: CONCURRENTLY WITH PSYC 6115*

Supervised practicum experiences in interventions for the management of interpersonal, group and community conflicts. 10-10-94

**PSIC6120 - Seminar: The Community Psychology and Social Policy.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR AND THE INSTRUCTOR*

Analysis of public policy in the areas of health, education and welfare in its relationship to community psychology in Puerto Rico. This should allow for effective planning of psychosocial intervention strategies. 10-10-94

**PSIC6131 - Community Practice I.**

*Three credits.*

The purpose of this practices is to expand the theoretical framework discussed in the courses-advanced social psychology i and community psychology. It also aims at developing interventions skills in communities, informal, groups, organizations, institutions or geographical communities, the systematic gathering of data, and related aspects of research. 10-10-94

**PSIC6132 - Community Practice II.**

*Three credits. Prerequisites: PSYC 6131*

The purpose of this practice course is to broaden the interventions and research skills acquired in community practice i. 10-10-94

**PSIC6133 - Community Practice III.**

*Three credits. Prerequisites: PSYC 6132*

The purpose of this practice course is to refine and broaden the skills acquired in community practice i and ii or to provide the student the opportunity to acquire new skills in community work in a new work scenario. 10-10-94

**PSIC6195 - Seminar on Social Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6105*

Study of current topics in social psychology and related areas. 10-10-94

**PSIC6201 - Practicum I.**

*Three credits. One hour of lecture and twenty hours of laboratory work per week Prerequisites: GRADUATE STUDENT*

The student will dedicate at least 120 hours to practical work in an organization where he can apply the techniques and concepts of the social-industrial program. The students will meet for one hour weekly with the supervisor for discussion and consultation. Each student will prepare a paper to be published in a scientific journal. 10-10-94

**PSIC6202 - Practicum II**

*Three credits. Three hours of supervision and eight hours of practicum Prerequisites: PSYC 6205 AND 6201*

Practicum in governmental and private organizations dealing with the organizational problems of these institutions. The course includes 120 hours of practice in addition to weekly meetings for supervision. 10-10-94

**PSIC6205 - Social Industrial Psychology.**

*3 credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENT.*

The purpose of the course social industrial psychology is to present the fundamentals of industrial organizational psychology. The focus is socio- historical, putting into perspective the discipline's beginnings and current state. On the other hand, traditional and modern techniques and procedures of selection, location, work design, and training and development will be discussed and analyzed. Ethical and legal aspects of the practice of organization industrial psychology will be discussed along with their impact on our work human beings in organizations.

**PSIC6206 - Construction of Psychological Tests.**

*Three credits. Two hours of lecture per week Prerequisites: PSYC 6006*

Theory on construction of aptitude, intelligence, achievement, personality and interests instruments. Practice in initial development of one of these types of instruments. 10-10-94

**PSIC6207 - Objective Measures of Personality And Interests.**

*Three credits. Three hours of lecture per week*

Study of the theoretical and methodological bases of objectives measures of personality and its implications in terms of use and interpretation. 10-10-94

**PSIC6208 - Motivation and Work Behavior.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE PSYCHOLOGY DEPARTMENT*

The major theories of motivation are examined along with the research associated with them. Particular emphasis is placed on the application of knowledge. 10-10-94

**PSIC6209 - Psychosocial Aspects of Labor Law.**

*Three credits. Prerequisites: ADMISSION TO THE PROGRAM*

Critical analysis of labor law in areas such as health, safety, work schedules, salaries, labor unions, and others. 10-10-94

**PSIC6215 - Psychosocial Approach to Organizational Conflicts.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

Psychosocial analysis of organizational conflicts and their solutions. 10-10-94

**PSIC6216 - Laboratory in Psychological Test Construction.**

*One credits. One hour of laboratory per week Prerequisites: TO TAKE SIMULTANEOUSLY WITH 6206*

Laboratory in item writing, analysis, reliability, norming, equating, and validity in psychological tests. 10-10-94

**PSIC6218 - Occupational Health Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6205 OR EQUIVALENT.*

Three credits. Three hours of lecture per week Prerequisites: PSYC 6205 OR EQUIVALENT.

**PSIC6225 - Psychological Assessment Techniques in Personnel Selection.**

*Three credits. Three hours of lecture per week*

Discussion of the principal psychological assessment techniques used in personnel selection. Course face-to-face, hybrid and online modalities. 10-10-94

**PSIC6226 - Introduction to Item Response Theory.**



*Three credits. Three hours of lecture per week Prerequisites: PSYC 6206*

Introduction to the basic models in item response theory in test development. One (rasch model) two and three parameters models will be discussed and compared to classical theory. 10-10-94

**PSIC6227 - Social Psychology of Labor and Production in The Contemporary Capitalist Society.**

*Three credits. Three hours of lecture per week*

Analysis of the alienation, communication, and organization theories in relation with the social changes that the contemporary crisis promotes. The perspectives of social psychology in the chnotronic era will be studied. 10-10-94

**PSIC6301 - Advanced Developmental Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR IN PSYCHOLOGY OR CONSENT OF THE COUNSELOR.*

A study of basic principles of human development, with emphasis on childhood and adolescence. Critical consideration of recent scientific findings. Stress on the problems and characteristics of childhood and adolescence in Puerto Rico. (c) 10-10-94

**PSIC6302 - Advanced Developmental Psychology.**

*Three credits. Bachelor and consent of the professor*

With a background study of the principles that guide the development of human behavior from conception to late adolescence, this course will further consider subsequent developmental phases, such as early adulthood. Intermediate adulthood and the onset of old age. Concurrently with the study of the evolution of the human being, the psychological circumstances accompanying the attainment of optimal growth and the subsequent decline of life will be stressed. (c) 10-10-94

**PSIC6305 - Advanced Statistical Design.**

*Three credits. Three hours of lecture per week*

Advanced statistical design and theory. (c) 10-10-94

**PSIC6306 - History and Systems of Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM*

The course examines the history of psychology departing from the psychological ideas of ancient orient up to contemporary psychology. Efforts are made to identify links between the psychological ideas of a particular historical moment with significant social events of that time. Finally, the history and state of the discipline in Latin America. (c) 10-10-94

**PSIC6311 - Teaching of Psychology.**

*3 credits. Three hours of lecture per week.*

This course focuses on teaching and evaluation of the course general psychology. It examines innovation in teaching and instructional methods. Debate and central issues of general psychology course content, teaching ethics and achievement assessment are discussed.

**PSIC6312 - Practicum in The Teaching of Introductory Psychology.**

*Three credits. Eight hours of practicum per week Prerequisites: PSYC 6311*

Course designed to provide supervised experiences and skills in the teaching of psychology. Supervised practice in the different methods of psychology will be offered. (c) 10-10-94

**PSIC6315 - Practicum in The Teaching of Advanced Psychology Courses.**

*Three credits. Twelve hours of supervised practice per week Prerequisites: PSYC 6312 AND PERMISSION OF*

#### *THE DIRECTOR*

Organization and teaching of an undergraduate course in psychology under a professor's supervision. Includes discussion of the philosophical foundations of teaching and the most recent developments in the topic being taught. 10-10-94

#### **PSIC6317 - Advanced Physiological Psychology.**

*Three credits. Three hours of lecture per week*

Intensive study of the relationship between the physiological systems of an organism and its behavior. Special attention will be given to the functions of the central nervous system and its influence on behavior. (c) 10-10-94

#### **PSIC6318 - Human Learning.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT OF PSYCHOLOGY*

Broad study of human verbal memory and verbal behavior. Brief review of pertinent historical antecedents and general methodology; the remainder of the course will be a study of several models of memory and or language interpolation. (c) 10-10-94

#### **PSIC6319 - Applied Sampling of Human Population.**

*Three credits. Three hours of lecture and two of laboratory work per week Prerequisites: PSYC 6006, 6305, PERMISSION OF THE PROFESSOR*

The course will cover the major procedures used in sampling human populations. The major areas will be simple random, systematic, stratified and cluster sampling techniques. In addition, there will be a laboratory in which computer simulation techniques will be used to study the diverse sampling techniques. 10-10-94

#### **PSIC6325 - A Psychological Approach to The Study Of Cognitive Processes.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR*

The basic theories and research concerning the relationship between mental acts and human behavior and affectivity. The importance of cognitive process in applied areas of psychology will be emphasized. (c) 10-10-94

#### **PSIC6327 - Use of The Computer and Its Applications In Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

Introduction to the terminology, principles and applications of computers in psychology. (c) 10-10-94

#### **PSIC6401 - Psychological Assessment I.**

*Three credits. Two hours of lecture per week Prerequisites: PSYC 6020, 6405 AND 6408*

Critical analysis of the theoretical and practical aspects of psychological assessment through intelligence testing. It includes it's historical, conceptual and ideological aspects; the Stanford-Binet and Wechsler (adult and children's version) tests; their uses, scope, limitations, administration, scoring and interpretation. (c) 10-10-94

#### **PSIC6402 - Psychological Assessment II.**

*Three to Four credits. Two hours of lecture and two or four hours of laboratory work or supervised practice per week Prerequisites: PSYC 6401, 6403*

Training in the administration and interpretation of the various techniques used in personality evaluation such as tat, bender, gestalt, and draw a person. Includes supervised practical work, laboratory work and the presentation of written reports. (c) 10-10-94

**PSIC6403 - Practicum on Psychological Assessment I.**

*One credits. Three hours of supervised sessions and twelve hours of practice per week Prerequisites: PSYC 6020, 6405, 6408 AND REGISTERED IN PSYC 6501*

Supervised experience in administration, scoring and interpretation of intelligence tests as well in report writing. (c) 10-10-94

**PSIC6404 - Practicum on Psychological Assessment II.**

*None credits. Four to eight hours of practicum Prerequisites: PSYC 6401, 6403 AND REGISTERED IN PSYC 6402*

Supervised practicum work on the administration and evaluation of the tat, cat, bender-gestalt. Draw a person, among other. (c) 10-10-94

**PSIC6405 - Theories of Personality and Psychotherapy.**

*Three credits.*

Basic concepts in personality theory and psychotherapy, with particular emphasis on existential and phenomenological approaches. Particular attention is given to the discussion of the applicability and relevance of concepts and techniques to our population, taking into account our diverse social idiosyncrasies and the objective situations under which the Puerto Rican psychotherapist must serve the economically disadvantaged. (c) 10-10-94

**PSIC6406 - Practicum on Psychotherapy.**

*None credits. Eight hours of practicum per week Prerequisites: REGISTERED IN PSYC 6405*

None credits. Eight hours of practicum per week Prerequisites: REGISTERED IN PSYC 6405

**PSIC6407 - Urgency Clinic and Short-Term Psychotherapy.**

*3 credits. Three hours of lecture per week Prerequisites: PSIC 6003 OR PSIC 6005, PSIC 6408.*

The course propose a critical reflection over both the states and events psychological literature has come to term crisis in order to produce relevant clinical and ethical knowledge that could allow us to go beyond the so called intervention and contribute both to the production of a listening positioning that opens itself to the subject`s discourse in a moment of crisis and propitiate a positioning that may enable the person to relate his/her suffering and symptoms not only to an exterior lineal consequence of events but as a production his/her own subjective and discursive complexity.

**PSIC6408 - Principles of Psychopathology.**

*Three credits. Three hours of lecture per week*

Discussion of various psychopathological models (biophysical, intrapsychic, phenomenological, behavioristic, and social-cultural) with particular emphasis on antecedents, development, and symptom patterns. Therapeutic issues, when pertinent to diverse patterns of psychopathology and socio-cultural idiosyncrasies, are discussed. (c) 10-10-94

**PSIC6409 - Practicum on Psychopathology.**

*None credits. Four hours of practicum Prerequisites: REGISTERED IN PSYC 6408*

Observation, interviews, and clinical discussion and analysis of behavior disorders. The practicum is an integral part of the course PSIC 6408. 10-10-94

**PSIC6410 - Advanced Seminar in Behavior Modification.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6417*

Intensive study and analysis of theoretical framework of the principles of behavior modification and the therapeutics effectiveness of behavior modification techniques. 10-10-94

**PSIC6415 - Advanced Psychotherapy with Drug Abusers.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6405*

An examination of the multiplicity of problems related to the practice of psychotherapy with drug users. Specific attention will be given to the particular needs of the drug users as well as to the resources which the psychologist must use in the process of helping the drug users. The legal, ethical and social factors which bear directly upon the treatment of drug users will be examined. 10-10-94

**PSIC6416 - Group Therapy.**

*Three credits. Two hours of lecture and three of laboratory work per week Prerequisites: PSYC 6405, 6408*

Theoretical and technical aspects of group therapy will be emphasized, and a human laboratory where experiences both as client and therapist in a group therapy setting will be provided. (c) 10-10-94

**PSIC6417 - Principles of Behavior Modification.**

*Three credits. Three hours of lecture and four of practicum per week Prerequisites: FOR STUDENTS OF THE GRADUATE SCHOOL OF PSYCHOLOGY*

Study of basic psychological principles governing human behavior within the conceptual framework of experimentally established principles of learning. Emphasis will be given to the application of social learning principles to the modification of psychotic, neurotic, and generally maladaptive behaviors in educational, clinical and other social settings. Recent scientific findings in the behavior modification area will be critically discussed, with particular interest in their applicability to adaptive problems in Puerto Rico. 10-10-94

**PSIC6418 - Behavior Disorders of Children.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE DEPARTMENT*

Problems of ethiology, classification and management with specific reference to children manifesting extremely withdrawn behavior, behavior without limits, bizarre and chaotic trends and organically determined behavior. Theoretical frames of reference and techniques of assessment and evaluation will be considered. Practicum opportunities provided. Lectures by guest consultants. 10-10-94

**PSIC6421 - Family Therapy I.**

*3 credits. Two hours of lecture and three of laboratory work per week Prerequisites: PSYC 6405, 6408*

Study of some system of family therapy, their theoretical models, techniques used, and case analysis. The student is offered the opportunity to work as co-therapist in family therapy (laboratory) and to conceptualize about his own experience within different family systems which we share with others, personal personally or professionally.

**PSIC6423 - Practicum on Family Therapy I.**

*Three credits. Three to four hours of practicum Prerequisites: PSYC 6405, 6408 AND 6421*

Experiences of observing sessions of family therapy; opportunity to work as co-therapist in family therapy. Participation in staff meetings of the practicum center, case discussions; and participation in supervision meetings. 10-10-94

**PSIC6427 - Practice in Urgency Clinic and Short Term Psychotherapy.**

*Three credits. Prerequisites: PSIC 6003 OR PSIC6005, PSIC 6408-6409, PSIC8415 SHOULD BE ENROLLED CONCURRENTLY IN PSIC 6407. THREE HOURS OF PRACTICUM PER WEEK*

This course constitutes the practical aspect of the theoretical course urgency clinic and short- term psychotherapy. It provides the graduate student with the clinical experience with subjects that go through a psychological crisis, request services and need short term therapy.

**PSIC6431 - Practice in Clinical Psychology I**

*PSIC6431 - Practice in Clinical Psychology I No.*

Supervised practicum in clinical observation, interviews, report writing and case conference participation. The practicum requires twelve hours of work per week, in addition to meetings with the clinical supervisor. 10-10-94

**PSIC6432 - Practice in Clinical Psychology II**

*Two credits. Prerequisites: PSYC 6431*

Supervised practicum in psychological evaluations of personality and intellectual functioning diagnostic interviews, counseling, and individual psychotherapy, with special attention to short-term problem solving and crisis intervention. The practicum requires twelve hours of work per week in addition to weekly meeting with the clinical supervisor. 10-10-94

**PSIC6433 - Practice in Clinical Psychology III**

*Two credits. Prerequisites: PSYC 6432*

Supervised practicum in individual and group psychological evaluations and individual psychotherapy. Emphasis will be given to supervised individual psychotherapy, psycho-diagnosis, and group therapy. The practicum requires twelve hours of work per week in addition to weekly meetings with the clinical supervisor. 10-10-94

**PSIC6434 - Practice in Clinical Psychology IV.**

*Two credits. Prerequisites: PSYC 6433*

Supervised practicum in individual, group and family psychotherapy. The practicum requires twelve hours of work per week in addition to weekly meetings with the clinical supervisor. 10-10-94

**PSIC6436 - Intramural Practice in Clinical Psychology.**

*Three credits. Prerequisites: PERMISSION OF THE DIRECTOR*

Supervised practice in psychotherapy (individual, group, couples, and/or families) and psychological evaluation. This practice is performed in the facilities of the university center for psychological services and studies during the summer sessions. 10-10-94

**PSIC6437 - Introduction to The Clinical Practice.**

*Three credits. One hour of lecture, one hour of discussion, and five hours of supervised practice per week.*

Clinical work is structured through a conceptual framework that contextualizes the practicum experience. Through this course basic concepts will be presented in an effort to integrate theoretical-practicum-therapeutic principles. Thematical discussion will include theoretical framework, clinical observations, conducting interviews (style and processes), clinical conceptualization, therapeutical processes and the clinical context. 08-16-99

**PSIC6501 - Ideas and Biography.**

*Three credits. Two hours of lecture per week Prerequisites: BACHELOR'S DEGREE*

This seminar will consist of the study of individual lives and their relationship with the ideas and development of these lives. The student will select the person he wants as the case of study. 10-10-94

**PSIC6502 - Ideas and Biography.**

*Three credits. Two hours of lecture per week Prerequisites: BACHELOR'S DEGREE*

This seminar will consist of the study of individual lives and their relationship with the ideas and development of these lives. The student will select the person he wants as the case of study. 10-10-94

**PSIC6505 - Module on Dreams.**

*One credits. Three hours of lecture per week Prerequisites: CONSENT OF THE CHAIRMAN*

Function of dreams from a physiological and psychological point of view. Study of dr. Efrén Ramirez's theory of dreams, which is based on Jung's personality theory. We will try to evaluate the theory and its application as a method of psychotherapy and group therapy. 10-10-94

**PSIC6506 - Colloquium in Psychology.**

*None credits. One hour of meetings per week*

Lectures, discussion, and interchange of ideas between professors, students and invited lecturers. The students will register in the course each semester. (c) 10-10-94

**PSIC6507 - Psychology of The Woman.**

*Three credits. Three hours of lecture per week*

The course is organized around the question of the existence of a feminine psychology and its social and biological determinants. It addresses itself to the question of sex roles in their historical determination and their cultural relativity. An effort will be made to review extensively the literature on sexual-biological, cognitive and affective functioning of the woman. In addition, the development of feminist movements and the position of the woman in industrial society will be studied, particularly in their impact on male and female relations, the family and Puerto Rican society. (c) 10-10-94

**PSIC6508 - Contemporary Issues in The Psychology of Addiction.**

*Three credits. Prerequisites: AUTHORIZED BY THE DIRECTOR AND PROFESSOR*

The course will address the basic issue and controversies regarding the psychology of drug abuse particularly as related to treatment prevention and control strategies. (c) 10-10-94

**PSIC6509 - Interpersonal Dynamics.**

*Three credits. Three hours of lecture per week*

Study of individual behavior in small groups. Training experiences in groups, observations, bibliographical research. 10-10-94

**PSIC6510 - Seminar on The Family in Puerto Rico.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: CONSENT OF THE DIRECTOR*

Analysis and research of the history and psychosocial aspects of the family in Puerto Rico. The main objective of the seminar is to promote, within a historical and conceptual analysis, psychosocial research on the family and its problems. 10-10-94

**PSIC6515 - Intelligence, Creativity and Cognitive Complexity.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR*

The concepts of intelligence, creativity, and cognitive complexity will be contrasted. The relevance of these concepts in relation to present day Puerto Rican society will be determined. 10-10-94

**PSIC6516 - Supervised Reading Course.**

*Three credits. Prerequisites: REGISTRATION ONLY WITH THE WRITTEN PERMISSION OF THE INSTRUCTOR*

This is a tutorial course in which the readings center around a topic chosen by the student and the professor. The student will complete his readings and afterwards present a paper on the subject chosen. (c) 10-10-94

**PSIC6517 - Advanced Psychopharmacology of The Use and Abuse of Drugs.**

*Three credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR OF PSYCHOLOGY DEPARTMENT*

Study the psychophysiological system and its alteration due to the use of chemical substances. The students will be familiarized with the clinical and pharmacological aspects of the substances subject to abuse and substances used in different treatment modalities (methadone, naltrexone, etc.). Particular attention will be given to the study of human behavior and its interaction with the effects of substances in the psychophysiological system. 10-10-94

### **PSIC6518 - Psychology of Youth.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PSYC 6301*

Study of the theories and investigations which attempt to explain the typical processes in the life of the youth considering the cultural variables which influence the formulation of these theories, and the design of these studies. Discussion of the physical, cognitive, social and affective components of development of the youth. Further, family processes, school experiences, a peer relationship will be studied as well as their impact development. 10-10-94

### **PSIC6520 - Seminar on The Neuropsychology of Drug Addiction.**

*Three credits. Three hours of lecture per week Prerequisites: GRADUATE PROSEMINAR OF PHYSIOLOGICAL PSYCHOLOGY*

Survey and discussion of the commonly used drugs, both licit and illicit, and of their neuro-physiological and behavioral effects. 10-10-94

### **PSIC6525 - Psychological Analysis of Power.**

*Three credits. Three hours of lecture per week*

Analysis of the concept of power at the individual (power within personality, power motivation, focus of control) and group levels (leadership, sex relations). Some attention will be given to community and institutions. 10-10-94

### **PSIC6526 - Spirituality and Psychology.**

*Three credits. One hour of conference, one hour of discussion and one hour of q workshop per week Prerequisites: PSIC3005 Ó PSIC3003.*

This graduate course examines the contemporary conceptualizations and debates on the notion of spirituality in the psychological endeavor particularly in its integration to the therapeutical practice and preparation of the helping professional. The course reviews the ethical premises for the integration of spirituality to psychology in its scientific and practical endeavor.

### **PSIC6527 - Fundamentals of Human Sexuality.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

This introductory course has as its main objective to present a general vision of human sexuality. It includes processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective as well as in its social dimension. The student will examine some sexual problems of the Puerto Rican society. 10-10-94

### **PSIC6528 - Violence and Complexity.**

*Three credits. Three hours of seminar per week.*

The study of relations between psychic and social life from the standpoint of the centrality of violence as social signifier in contemporaneity is the purpose of this course. Its analysis includes both the history of identifications of the subject and the world shared with others (intersubjectivity). The knowledge produced by psychoanalytic discourse towards the current theorization fields such as post structuralism, deconstructivism and social constructivism. Contemporary social transformation and their relationship with transformations on both representations of violence and subjectivity are also studied. Question such as if

there is a violence which is constitutive of the human space and questions concerning demarcations lines between violence, brutality and aggressivity are addressed.

**PSIC6529 - Review and Critical Analysis of The Psychological Literature In Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: TO HAVE APPROVED A MINIMUM OF NINE*  
Review of the research and publications in Puerto Rico, it's theoretical background and methodology and the implications for the understanding of the Puerto Rican psychology. A tool for the critical analysis will be presented. 10-10-94

**PSIC6535 - Theoretical Controversies on Human Development: Early Development.**

*Three credits.*  
Several aspects of human development from birth to seven years of age will be studied. The epistemological approach will be used. The assumptions, controversies, ideological and philosophical influences present in theories examined during the course will be analyzed. 10-10-94

**PSIC6537 - Psychopathology of Affective Development of The Child: Psychoanalytical Perspective.**

*Three credits. Prerequisites: PERMISSION OF DIRECTOR*  
Offers a clinical vision of affective development of the child, from psychoanalytical perspective; permits the study of child psychopathology. 10-10-94

**PSIC6539 - Systems Theory in Psychology.**

*Three credits. Prerequisites: PSYC 6005*  
The fundamental themes and aspects that constitute the framework of general systems theory, its relevance to psychology in particular, as well as the critical study of the theory. 10-10-94

**PSIC6545 - Program Evaluation and Consultation.**

*Three credits. Three hours of lecture per week*  
Introduction to the concepts and basic methods of consulting and program evaluation and to the ethical controversies and value issues surrounding these endeavors. It emphasizes skill development and the application of consulting and program evaluation skills in public service and private, non-profit organizations. 10-10-94

**PSIC6546 - Analysis of Organizational Interventions: Theory and Practice.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6025 OR ITS EQUIVALENT, PERMISSION OF THE DIRECTOR OR PSYC 6026*  
Analysis of interventions done in public and private organizations in Puerto Rico and other countries considering the conceptual models that guide them. Different intervention models, their purposes, conceptual models, and ethical principles are presented. Analysis of actual applications of these and other models, with particular attention on the congruence between theory and practice. 10-10-94

**PSIC6555 - School Psychology.**

*Three credits. Three hours of discussion per week*  
Three credits. Three hours of discussion per week

**PSIC6591 - Practice on School Psychology I.**

*Three credits. Eleven hours of supervised practice per week Prerequisites: PSYC 6555*  
Supervised practice in offering services in the school context that includes different experiences, such as: classroom observations, health promotion, prevention, community relations, and interventions for academic and discipline problems. 10-10-94



**PSIC6592 - Practicum in School Psychology II.**

*Three credits. Three hours of direct supervision and ten hours of practice a week at the scholar scenery*  
*Prerequisites: PSIC 6401, 6403, 6555 AND 6591.*

Continuation of a supervised practicum to offer services on the school context. The student will obtain experience in psychological intervention such as, crisis and conflict intervention, behavior management in group setting, interdisciplinary work, psico-educational and program evaluations. This course is complementary to PSIC 6591. 16-08-99

**PSIC6895 - Advanced Practicum In Work And Organizational Psychology For Students Of The European Master Program Erasmus Work Organizational And Personnel Psychology.**

*Ten credits. Thirty hours of supervised practicum a week.*

The student dedicates at least 360 hours to practical work in an organization where they apply the concepts and techniques of work psychology, organizations and human resources. The student can accredit up to 500 hours of practice depending on the requirements of the program from which the student comes. Students of the European master program "Erasmus mundus work organizational psychology program "of Europe, for which the course is required, meet with the teacher equivalent to an average of one hour per week (can be done two hours every two weeks or 3 hours every three weeks, depending on the type of project) to discuss the student's practice project (s) and consult about references to studies. This course is part of the UPR agreement as an international partner of the Erasmus mundus work organizational and personnel psychology master program (wop-p) of Europe.

**PSIC6995 - Practicum In Research.**

*One to 4 credits. Prerequisites: only for students registered in the graduate program in psychology*

The development of skills needed in psychological research through active participation in developing research projects under the supervision of a professor. The course may be taken again with credit, without limit and with the approval of the professor.

**PSIC6996 - Proseminar In General And Applied Psychology: Ethical Issues In Psychology.**

*One to Three credits. 16 hours of lecture per semester.*

The course shall familiarize the student with the problems and considerations to be taken in the construction development and application of an ethical implications of utilizing diverse models of man as illustrated in the different psychological paradigms shall be examined. Class case discussions, situations and paradoxes in the professional practice of psychology shall be covered. (c)

**PSIC7005 - Seminar In School Psychology: Functions Of The School Psychologist.**

*Three credits. Fifteenth hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR*

Study of the clinical process in the diagnosis of learning and behavioral difficulties in children. Emphasis on the integration of data from case histories, interviews and tests for diagnosis. (c) 10-10-94

**PSIC8000 - Philosophical Foundations Of Psychology.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM*

The changes on the paradigms in science and their consequences in psychology. (c) 10-10-94

**PSIC8001 - Dissertation Seminar.**

*None credits. Three hours of discussion per week Prerequisites: MASTER DEGREE OR PSYC 6007. PERMISSION OF THE DIRECTOR AND/OR COORDINATOR OF THE DOCTORAL PROGRAM*

The dissertation is an original research project which demonstrates the student's ability as an independent investigator. During his dissertation seminar the student will select the topic and research problem, review

the literature (relevant theoretical and empirical findings), and elaborate a research design or a research action plan. The student will submit a formal dissertation proposal to the dissertation committee for approval. (c) 10-10-94

**PSIC8002 - Dissertation Work.**

*None credits. Three hours of discussion per week Prerequisites: PSYC 8001*

This course is designed to provide follow up to the dissertation seminar. The research approved in dissertation seminar will be completed. In other words the pertinent information will be collected and interpreted by the student with the dissertation committee's guidelines. The student will enroll in this course until his/her dissertation is completed and fully written. Until the work is completed the student will present frequent progress reports on his/her work. (c) 10-10-94

**PSIC8005 - Seminar In School Psychology: Professional Problems In School Psychology.**

*Three credits. Three hours of lecture per week*

In depth examination of unresolved problems of psychoeducational diagnosis and remediation, modification of behavior, counseling, consultation, and parents consultation. 10-10-94

**PSIC8007 - School Psychology: Mental Health Consultation In The Schools.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR, CONSORCIUM STUDENTS*

Consultation as a model for school psychological services. Students will be familiarized and travel in diverse consultation modalities and levels to be utilized as school psychologist. Research and evaluative aspects of consultation will be studied. 10-10-94

**PSIC8015 - Advanced Social Psychology Ii.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6105*

Examines the historical forms of subjectivity in areas of everyday life such as child rearing, morality, sexuality, and love. 10-10-94

**PSIC8017 - Seminar On Multiple Research Perspectives Ii.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6007*

Examination of the different theoretical fields of psychology and their research. Analysis of their assumptions, research strategies, methods and techniques of wide utilization. (c) 10-10-94

**PSIC8018 - Contemporary Social Research: Meeting The Authors.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6007 AND PSYC 8017*

Different perspectives in social science research through meeting with researchers and discussing their research projects with them. 10-10-94

**PSIC8019 - The Social Scientist As An Expert Witness.**

*Three credits. Three hours of lecture per week Prerequisites: M. IN PSYCHOLOGY OR ANY OTHER AREA IN THE SOCIAL SCIENCES*

Theoretical and practical issues in the preparation of the social scientist as an expert witness. 10-10-94

**PSIC8027 - Advanced Psychobiology: Foundations, Uses And Controversies.**

*Three credits.*

The discussion period is geared towards considering biological influences in the psychological conceptualization of the human being, particularly generated by evolutionary, ethological and systematic viewpoints. Essential concepts such as evolution, adaptation, species-specific behavior, biological niche and

systematic organization are discussed. The discussion period is complemented by the practical laboratory, where more ample consideration will be given to controversies and applications of a psychobiological approach. 10-10-94

**PSIC8028 - Psychopharmacology.**

*Three credits. Three hours of lecture and seminar per week Prerequisites: PSIC 6317 OR PSIC 8027.*

This course will provide a firm basis in psychopharmacology and neurophysiology. It will cover aspects of the structure and function of the nervous system neurochemistry, pharmacodynamics and pharmacokinetics. It will include discussion of the pharmacological impact of drugs on neuronal function with emphasis on behavioral alterations, neurobiological processes underlying different psychopathologies and strategies used in clinical psychopharmacological research. Specific drug classes that will be discussed include: anxiolytics and antidepressant, typical and atypical antipsychotic drugs, sedative hypnotics, narcotic analgesics, among others. The content will be presented with both a basic science and clinical orientation combined with throughout discussions of books chapters, scientific articles and reviews (lecture/seminar format). This course is specially designed for clinical psychology graduate students and for students in the academic-research program.

**PSIC8101 - Human Neurodevelopment.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PSIC 6317.*

The course expands fundamental concepts of human neurodevelopment by studying the neurobiological mechanisms underlying the formation and maturation of the nervous system. The main cellular processes in the development of the nervous system are discussed, including cell division, migration, and basic signaling pathways. Includes insights into the human brain in utero, during infancy and childhood, adolescence, adulthood and old age, and discussions of functional neuroanatomy. Discussions about neurobiological and neuropsychological processes involved in cognitive functions and neurodevelopmental pathologies are examined. Structural, functional, connectivity, and neurochemical changes in the brain through life are studied. Finally, the course provides a foundation for future work in basic science, clinical applications, and research on the development and function of the nervous system. This course will be offered in the modalities face-to-face, hybrid, distance and online.

**PSIC8105 - Psychology and Social Movements.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6105*

This course analyzes the theoretical and practical contributions of psychology to social movements that have occurred in Puerto Rico the last decades. 10-10-94

**PSIC8115 - Social Psychology of Education.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6105 OR EDUC 6270*

Examination of the crisis of education in contemporary capitalistic society. Critical analysis of the most important theories explaining the crisis. The social construction of education and the new subjectivity. 10-10-94

**PSIC8125 - Sociocultural Study Of The Mind.**

*Three credits. One hour of lecture and two hours of discussion per week.*

Analysis of the sociocultural approach as a conceptual frame for the study of the mind. The origins and historical development of the approach is discussed, with emphasis in the research program it has generated. 12-08-97

**PSIC8126 - Human Learning.**

*Three credits. Three hours of lecture per week.*

Critical exposition of the main psychological theories on human learning. The historical and methodological antecedents that led to the emergence of this field of study will be exposed. Behavioral theories, cognitive theories, and constructivist theories of human learning will be examined. Contemporary topics such as metacognition, transfer, problem solving and the role of motivation in the human learning process will be analyzed. This course will be offered face-to-face, hybrid and online modalities. Effective August 2023.

### **PSIC8127 - Contemporary Debates About Youth Psychology.**

*Three credits. Three hours of conference per week.*

The course will critically analyze classical and contemporary theories on human development during adolescence. Particular emphasis will be given to the socio-historical determinants that serve as the basis for such theories. It will examine the prominent place of the family, school, mass media, particularly social networks, in the constitution of the subjectivities of young people. Taking into account the context of Puerto Rico, some behaviors of young people that tend to be problematic will be examined, among them: pregnancy, dropping out of school and drug use. Various contributions of Puerto Rican youth to social life will be analyzed through reappropriations and innovations in their daily practices, particularly in art and ecology. Finally, some psychotherapeutic alternatives will be examined if these are necessary. This course will be offered face-to-face, hybrid and online modalities. Effective August 2023.

### **PSIC8129 - Adult and Ederly Psychology.**

*Three credits. Three hours of lecture per week.*

The course will critically analyze classical and contemporary theories of human development in adulthood and senescence proposed by evolutionary psychology. Particular emphasis will be given to the socio-historical determinants that serve as the basis for such theories. It will study the physical transformations, the cognitive and psychic processes of adulthood and old age. To do that, it will consider that the forms of representation and experimentation of these processes are saturated by the dominant social understandings, particularly the scientific-investigative one. It will specifically consider the influence on gender, productive, reproductive, sexual, and technological, among others. Some of these forms of representation of adult life senescence in Puerto Rico will be examined. The course will be offered under the face-to-face, hybrid and online modalities. Effective August 2023

### **PSIC8130 - Practice in Neuropsychological Evaluation.**

*One credits. Two hours of supervised practice\clinic per week Prerequisites: PSIC 8128.*

This course is the practical sequence of PSIC 8128 (neuropsychological evaluation). The main emphasis is the process of selection and administration of neuropsychological test as well as the analysis of the results from an integrative perspective between the observable and measured residual functioning and the reason for the referral. Likewise, emphasis is placed on the drafting of the neuropsychological evaluation report where the results of the evaluation process are reflected together with the recommendations and possible diagnosis. The student is exposed to different evaluation instruments taking into account the flexible battery model and the comparison rules more appropriate for the evaluated patient, among others. This course is offered face-to-face and hybrid.

### **PSIC8200 - Social Psychology Foundations and Current Issues.**

*Three credits. Three hours of lecture per week.*

This course studies social psychology theoretical and methodological foundations. The course discusses classic and contemporary theories, mainstream in social psychology research as well as new trends such as the effective aspects of social behavior. This course is divided in four general units: epistemological and historical background, theorizing the individual in the social contexts, effective aspects of social dynamics and power structures and contemporary related fields. In each unit theoretical, as well as methodological approaches, are examined in order to provide students with the opportunity to develop an understanding of

the field as well as research methodology from a social psychological perspective and integrate social and effective aspects of behavior. Ethical issues related to theory, research and psychosocial interventions are discussed. This course examines social and effective processes that affect behavior. This course is face-to-face.

### **PSIC8201 - Human Development Lifespan Overview.**

*Three credits. Three hours of lecture per week.*

The course presents contemporary theory and research in life span development. The students will review the biological, genetic, historical, socio-cultural, socioeconomic and psychological foundations of human development. Emphasis will be given to normative development as well as individual differences. Puerto Rican cultural factors in child rearing and development will be discussed. This course is face-to-face.

### **PSIC8202 - Psychological Approaches to The Study Of Cognitive And Affective Processes.**

*Three credits. Three hours of lecture per week.*

This course studies the main theoretical models used to explain human cognitive and effective aspects behavior. The emergence of cognitive psychology is examined considering socio-historical transformations. Information processing models, genetic epistemology, historical-cultural perspective, and effective processes are analyzed. Cognitive processes such as attention, sensation, perception, memory, language and problem solving are discussed. In particular, analyzes how affective processes and cultural differences molds cognitive processes and human behavior. This course is face-to-face.

### **PSIC8203 - Models and Techniques Of Psychotherapy.**

*Three credits. Three hours of lecture per week.*

This course is focused on establishing a foundation for the understanding of key psychotherapy modalities. Concepts, principles, and theoretical models of psychotherapy, as well as their origins and evolutions are discussed. This course aims to generate a specific understanding of the principle theoretical models and therapy processes, such as the differences and similarities between models. Once the foundation of the theoretical models is established current therapeutic approaches will be examined from a critical standpoint, emphasizing conceptual issues, methodology, and alternatives for facing such issues. This course will also cover evidence based psychotherapeutic approaches with different populations. This course is offered face-to-face.

### **PSIC8204 - Personality and Human Diversity.**

*Three credits. Three hours of lecture per week.*

The course is critical and complex approach to the paradigmatic assumptions underlying personality theories and traditional psychological approaches in the study of the human being. It proposes a conceptual framework that combines the paradigm of complexity, constructivism, psychoanalytic theory as well as up to date foundational psychological premises in the thinking of the human. Application of these conceptual frameworks to Puerto Rican population and sensibility toward cultural and individual differences and diversity will be explored. This course is face-to-face.

### **PSIC8205 - Advanced Psychological Assessment.**

*Three credits. Three hours of lecture per week Prerequisites: PSIC 6401 AND PSIC 6403*

Training in the conceptualization, administration and interpretation of various techniques used in personality assessment such as: thematic apperception test (cat), Bender Gestalt, the tree-house-person drawing test and the drawing of the human figure, among others. Additionally, we work on the use of other self-report techniques such as the mmpi-2 and the myp. It includes supervised practical work, laboratory work and the presentation of written reports. This course is face-to-face.

**PSIC8206 - Practice Psychological Assessment.**

*One credits. Prerequisites: PSIC 6401 AND PSIC 6403. Corequisites: PSIC 8205.*

Intensive practice in the administration and evaluation of the following test: Thematic Apperception test (tat), Children's Apperception Test (CAT), Bender Gestalt Motor Visual Test, Drawing of the Human Figure among other tests. To the above, the tests contained in the PSIC course are incorporated. PSIC 6401, psychological evaluation i, worked in the practice of this course, PSIC 6403, personality inventories such as the personality assessment inventory (pai), the Minnesota Multiphasic personality inventory-2 (mmpi-2) and Rorschach basics are also included. Emphasis is placed on the clinical approach to the responses of the subjects with whom they work, which are part of their discourse and life history. This course is face-to-face.

**PSIC8215 - Law and Psychology.**

*Three credits.*

Analysis of basic concepts common to law and psychology. 10-10-94

**PSIC8216 - Employment and Discrimination.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR*

Critical analysis of employment discrimination and its consequences. 10-10-94

**PSIC8300 - Advanced Clinical Practice.**

*One credits. Three hours of supervised practice Prerequisites: PSIC 6434.*

This advanced clinical practice in psychotherapy (individual, group, couples and/or families, and/or psychological evaluation), allows students to increase face-to-face clinical hours and refine clinical skills. During this advanced practice, students can also increase exposure to a diverse population and rotate in external clinical practices. This course face-to-face.

**PSIC8301 - Advanced Family and Couples Therapy.**

*Three credits. Three hours of lecture per week Prerequisites: PSIC 8203, PSIC 6432. Corequisites: PSIC 8302.*

This course provides the student with an overall view of the concepts and theoretical foundations of family and couples therapy as well as the different schools, approaches and recent developments. Content will emphasize interventions and techniques associated with the different theoretical models. Students will also develop research skills when developing a group research project of a current problem facing Puerto Rican families and couples. This course face-to-face.

**PSIC8302 - Practice in Advanced Family and Couples Therapy.**

*One credits. Supervised practice and clinic Prerequisites: PSIC 6432, PSIC 8203. Corequisites: PSIC 8301.*

This course is a laboratory where students have the opportunity to acquire and to practice the basic therapeutic skills to work with families and couples from a systemic perspective. Students will have face-to-face intervention with a family using one of the family theoretical models. This course face-to-face.

**PSIC8303 - Research Practicum.**

*One credits.*

The course provides an integrated theory and applied training experience in designing, creating, implementing, and disseminating research in clinical psychology with sensitivity to cultural and ethical awareness. Student will join a faculty member's project to acquire research skills. During this practice, students will participate in research activities working with their faculty research supervisor. Students are required to assist to 3 weekly hours of research under the mentorship of their supervisor. Each faculty research project will have a brief

**PSIC8304 - Clinical Supervision Seminar.**

*One credits. Prerequisites: PSIC 6433.*

This course offers the student a general overview of clinical supervision and the different approaches and models applied to the discipline of psychology. The student is exposed to the development of supervision as a fundamental part of a psychologist's clinical training. The student will be able to appreciate different conceptualizations of clinical supervision according to each theoretical model and its particular goals, approaches and strategies. Also, will learn the difference between supervision and consultation and acquire knowledge on consultation skills for mental health professionals. In addition, exposed to a clinical program, opportunities to create and develop instruments to measure variables that should be present in each psychotherapeutic model. There will be integration on theory and research. Students will practice creating ways to measure their model and will explore research publications on psychotherapy and supervision and consultation. This course is face-to-face.

**PSIC8335 - Research Methods in The Psychology of Human Development.**

*One credits. Three hours of lecture per week Prerequisites: PSYC 6006, 6007, 6301 AND PERMISSION*

Discussion of the research methods most frequently used in developmental psychology. Focuses on central issues of the analysis of time, life-span change, the contribution of the developmental approach and the relationship between research and theory development. 10-10-94

**PSIC8405 - Attachment Theory: Critique and Clinical Application.**

*Three credits. Three hours of lecture per week*

The course analyzes the basic tenets of this theory based on ethology. The theory is compared to other dynamic approaches and the clinical applications are examined. 10-10-94

**PSIC8407 - Rorschach Technique.**

*Four credits. Three hours of lecture and three hours of supervised practice per week Prerequisites: PSYC 6020, 6401 AND 6402*

An introductory course on the Rorschach technique. It includes theoretical background, administration principles, scoring and interpretation. It provides practical experience. 10-10-94

**PSIC8409 - Psychotherapeutic Research: Process and Outcome.**

*Three credits. Two hours of lecture and discussion and one hour of practice per week Prerequisites: PERMISSION OF THE PROFESSOR*

Formal research in psychotherapy programs with children adolescents, and adults with different modalities (individual, group, couple, and family). 10-10-94

**PSIC8411 - Seminar of Psychoanalysis I: The Adult.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

Study of Freud's writings, essential for the understanding of human subjectivity. 10-10-94

**PSIC8412 - Seminar of Psychoanalysis Part II: Child.**

*3 credits. Three hours of lecture per week.*

Study of basic texts by the most important psychoanalysts in the field of child psychoanalysis.

**PSIC8415 - Analysis and Reflection About the Practice of Clinical Psychology in Puerto Rico.**

*Three credits. Three hours of lecture per week and nine hours of workshop*

Supervised advanced practices in psychotherapy (individual, group, couples and/or families, and/or psychological evaluation). It permits the development of new models of intervention as well as refining clinical skills and a closer study of particular populations problems. 10-10-94

**PSIC8416 - Psychological Evaluation of Children with Handicaps.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 3025 OR 6301; PSYC 6401, 6402, 6403, AND 6404*

Theoretical and methodological controversies regarding the psychological evaluation of children with handicaps. Addresses the effects of the handicaps on the children's development, on their families and the problem of social and educational placement. 10-10-94

**PSIC8420 - Seminar: Families' Study.**

*Three credits. Prerequisites: PSYC 6421*

A critical study of the theoretical literature and research on families and its application in Puerto Rico. Research techniques will be developed for the study of Puerto Rican families. 10-10-94

**PSIC8425 - Seminar on Psychotherapy Supervision.**

*Three credits. Two hours of lecture and three hours of laboratory work per week Prerequisites: 60*

Critical consideration of theoretical and practical aspects of psychotherapy supervision. Experience in observation and supervision. 10-10-94

**PSIC8495 - Clinical Psychology Internship.**

*None credits. Prerequisites: PERMISSION OF THE DIRECTOR OR GRADUATE PROGRAM'S COORDINATOR AND PSYC 6431, 6432, 6433, 6434*

Supervised practice in clinical psychology toward the accumulation of 2,000 hours of professional experience as the last requirement for the doctoral degree. 10-10-94

**PSIC8505 - Psychology and Reason.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6007*

Analysis of the body/mind cleavage and the software/hardware fision of work and its consequence in the foundation and development of psychology. (c) 10-10-94

**PSIC8506 - Advanced Seminar in Community Psychology: Contemporary Debates.**

*Three credits. Three hours of lecture per week Prerequisites: PSYC 6105; PSYC 6106*

Current debates within community psychology and their impact on research and intervention. The discussion is related to the definition of social community psychology in Puerto Rico. 10-10-94

**PSIC8507 - Consultation School Context.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: PSIC 6555*

Study of the different roles and functions of a consultant in a school context. An in-depth discussion of the basic principles and models of professional consultation intervention. Emphasis in the different stages of a consultative relationship and the processes that usually take place during a consultant's intervention 16-08-99

**PSIC8508 - Practicum on School Consultation.**

*Zero credits. Ten hours of supervised practicum and three hours of supervision Prerequisites: PSIC 6555.*

Supervised practicum in consultation in the school context whereas theoretical knowledge are applied and skills pertinent to the area developed. This course complementary to consultation in the school context (PSIC 8507). 08-16-99

**PSIC8509 - Cognitive Neuroscience.**

*Three credits. Three hours of seminar per week Prerequisites: PSIC6317*

The cognitive neuroscience course proposes to explore cognitive processes from the perspective of hte study



of brain functioning. The course will cover fundamental concepts about the relation between cognitive theories and research with contemporary neuroscience research. The most relevant methods to develop research will be discussed, as well as techniques for the study of human beings after this, the course will discuss the neural aspects of visual cognition, attention, memory, number processing, cognitive control, decision making, and emotion regulation. The course will finish discussing cognitive neuroscience research on consciousness, as well as emergent areas for its study such as social and transcultural neuroscience.

**PSIC8515 - Biological Approaches in The Study of Psychopathology.**

*Three credits. Three hours of seminar per week Prerequisites: PSYC 6408, PSYC 6317 OR PSYC 8027*

Study of the biological models which have been proposed to explain different types of human psychopathology. Emphasis placed on the critical analysis of research which supports or contradicts these models and on the pharmacological interventions which are derived from them. Analysis of the most important controversies regarding their application and on their impact in the practice of psychology. 10-10-94

**PSIC8516 - Psychoeducational Assessment.**

*Three credits. Three hours of lecture and two of supervised practice per week Prerequisites: PSIC 6401, 6403 AND 6555.*

Concepts and strategies for psychoeducational assessment, will be analyzed. It will include conceptualization of assessment within a school context, academic achievement, basic reading, writing and mathematical skills as well as social performances, cognitive dynamics and pedagogical strategies. As a fundamental aspect of psychoeducational assessment, corrective and remedial modalities will be integrated. It will provide an opportunity to apply concept and skills necessary for psychoeducational assessment. 16-08-99

**PSIC8525 - Play: Analysis and Intervention.**

*3 credits. Two hours of lecture and two hours of supervised practice per week.*

Clinical implications of play therapy from the interpersonal and psychoanalytic perspective. Critical analysis and implications of other theoretical perspectives. Supervised practice in play therapy.

**SOCI6001 - Theory Forum.**

*Three credits. Three hours of seminar per week.*

Proseminar of readings and discussion of social theories of current relevance, their intellectual lineages, the debates in which they are inserted, their impact on methodologies, and their approaches to objects of study. Each week one or more theoretical readings will be recommended by a professor who will visit the seminar to explicate the lines of theorization and research related to the assigned readings. Course face-to-face, hybrid and online modalities.

**SOCI6002 - Research Forum.**

*Three credits. Three hours of seminar per week.*

Proseminar of readings and discussion of the professorate's current research, its theoretical bases, methodological approaches, and empirical findings. Each week the group will read a professor's study will participate in a discussion with the author and will write a reflection about the reading.

**SOCI6005 - Research Methodologies.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM*

Study of the scientific method in sociological analysis. The course poses the problem of scientific practice, its epistemology and its sociohistorical context, with special attention to the construction of the object of study and the use of research techniques. New since August 2016. Change in title only

**SOCI6006 - Complexity and Social Theory: Cybernetics And Social Analysis.**

*Three credits. Three hours of seminar per week.*

Seminar type graduate course dedicated to examine in depth the implications of the emergence of paradigms associated with second order cybernetics on social theory and research, as well as its diverse points of contact with other contemporary theories. The seminar will be organized around a core of bibliography common to all participants, and each participant will develop a selected topic. 16-08-99

**SOCI6007 - Issues in Contemporary Sociological Theory.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OF SOCIOLOGY OR PERMISSION OF THE DIRECTOR*

Study of the historical development and recent trends in advanced capitalist societies, with an analysis of the socioeconomic structures and of the state from the perspectives of the contemporary schools of sociological thought. 10-10-94

**SOCI6008 - Qualitative Methods in Sociology.**

*Three credits. One hour of lecture and two of workshop per week.*

Practical study of the principal qualitative methods in sociology. Emphasis on specific research techniques: interviews, participant- observation, textual analysis, among others. Review of their methodological and epistemological foundations. 16-08-99

**SOCI6015 - Quantitative Methods in Sociology.**

*Three credits. Three hours of lecture and two hours of laboratory work per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM*

The study of descriptive and inferential statistics, computer programming techniques, and the use of data banks in social research. Course face-to-face, hybrid and online modalities. 10-10-94

**SOCI6025 - Peripheral and Dependent Social Formations.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR PERMISSION OF THE DIRECTOR*

Analysis of the political and of the socio-economic transformations of colonial and dependent societies. 10-10-94

**SOCI6076 - Historical Sociology of Race and Ethnicity.**

*Three credits. One and a half hour of discussion one and half hour of seminar per week.*

Race and ethnicity are concepts of prime importance in sociology, as well as in other areas of knowledge. Both concepts are also significant in the daily lives of human beings and their interactions in, and throughout, different social formations. The course examines these two concepts through a comparative and historical approach and looks at their construction critically at the theoretical and conceptual level. It considers how the different understandings of race and ethnicity are located in relation to different areas of knowledge, to other concepts (class, nation), and various social dynamics and processes (nationalism, racism, and migration). The examination of these concepts, ideas, and dynamics is done through the consideration of case studies from various regions and societies, including, for instance, the Caribbean and the United States south, or the Nazi Germany. The course is designed for a high level of discussion and debate, integrating theoretical knowledge with both existing historical studies and the student's research projects. (This course has as equivalent hist 6076 in the history department.

**SOCI6105 - Theoretical and Practical Problems In The Analysis Of Crime.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OF SOCIOLOGY OR PERMISSION OF THE DIRECTOR*

Study of the debates concerning the analysis of crime in contemporary societies. 10-10-94

**SOCI6107 - Sociology of The Socio-economic Development of The Caribbean.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OF SOCIOLOGY OR PERMISSION OF THE DIRECTOR*

Study of the socio-economic development of the Caribbean in the context of the current crisis. 10-10-94

**SOCI6108 - The Urban Question and The State.**

*Three credits. Three hours of lecture per week.*

Elaboration of theoretical explanations of the urban question and the contemporary state within postindustrial societies. 10-10-94

**SOCI6109 - Social Analysis in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR PERMISSION OF THE DIRECTOR*

A systematic study of the history of sociology in Puerto Rico and the trends in social analysis from the 19th century to the present. 10-10-94

**SOCI6110 - Migration and Marginality.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FOR M.A. PROGRAM STUDENTS.*

A critical reinterpretation of current migration theory with particular emphasis on the analysis of "repetitive" and "circular" population movement from, as well as within, and to the Caribbean. Within this context particular attention will be given to the concepts of identity and community among Puerto Ricans, not limited to the geographical boundaries of the island. Attention to the social analysis, policy formulation and planning with due recognition of the central importance in modern society of population mobility. Theoretical paradigms beyond demographic theories are problematized, with particular attention to the issues of marginality as they relate to the concepts to community, nation and identity. 21-01-97

**SOCI6115 - Social Construction of Gender Relations.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM OR PERMISSION OF THE DIRECTOR*

Study of recent theoretical development in sociology which provide the framework within which sexual functioning and gender relations are analyzed. Analysis of contemporary debates in the realm of gender relations. 10-10-94

**SOCI6116 - Topics in Sociology.**

*Three credits. Three hours of seminar per week*

Seminar based on diverse topics within contemporary sociology. 10-10-94

**SOCI6117 - Population and Migratory Movements in The Caribbean.**

*Three credits. Three hours of lecture and discussion per week*

Analysis of the migratory flows towards the Caribbean during the nineteenth century; the Caribbean emigration toward the United States and Europe, as well as the migratory movements within the region during the twentieth century. Course face-to-face, hybrid and online modalities. 10-10-94

**SOCI6118 - Sociology of Meaning.**

*Three credits. Three hours of lecture per week.*

Introduction to the most pertinent concepts of the theory of meaning for interpretative sociology.

Approaches in the theory of meaning that have been most influential in the social sciences: that analytic school, structuralist and interpretative sociology. The relation between language, thought, and reality, the relation between sign, meaning, and referent; meaning and truth; linguistic relativism; semantic holism; speech act theory and meaning as use. August 14, 2000.

**SOCI6125 - The Political Economy of Health System.**

*Three credits. Three hours of seminar per week*

Critical analysis of the historical and social development of diverse health systems from a political economy perspective. Examination of the professionalization, the medical dominance, the medical-industrial complex and the medicalization. 10-10-94

**SOCI6126 - Social Production of Health And Illness.**

*Three credits. Three hours of seminar per week*

Critical analysis of the social production and construction of health illness within a historical perspective. Examination of the links among the development of capitalist and socialist modes of production, the social context and the distribution of infections and chronic diseases. 10-10-94

**SOCI6135 - Criminology and Daily Life.**

*Three credits. Three hours of lecture per week*

An exploration of the impact of the criminality in the daily life of contemporary societies. 10-10-94

**SOCI6137 - Social Movements.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week*

Critical examination of theories of social movements in Europe, United States and Latin America (the Caribbean and Puerto Rico) from different theoretical and ideological perspectives. The different forms of articulation between social movements and the state will be addressed. 10-10-94

**SOCI6139 - Intellectuals, Knowledge-power.**

*Three credits. Three hours of lecture per week Prerequisites: HAVE A BACHELOR OR PERMISSION OF THE PROFESSOR OR THE DIRECTOR*

Study of the role of the intellectual with respect to knowledge-power within the transition to postmodernity. Approaches such as ideological formations, social identity and the will to truth and power in knowledge are studied. 10-10-94

**SOCI6145 - Development Strategies in The Caribbean.**

*Three credits. One hour of lecture and two hours of discussion per week*

Three credits. One hour of lecture and two hours of discussion per week

**SOCI6147 - Subject Contemporary Social Processes and Movements.**

*Three credits. Three hours of lecture and discussion per week.*

The course pretends to exalt the theoretical relevance of the category of the subject, starting with a discussion of the discourse on the unitary subject and its coming crisis as part both of the project of modernity and the bourgeois project. It also contemplates a reflection on how these processes provoke the emergency of new fields of theorization on the subject particularly the theorization of the de-centered subject and the forms in which this theorization is link with the practices of different social movements especially those that evolve around identity categories. The course deals equally with the relationship between the theorization of the subject and different contemporary processes -its cultural and political referent.

**SOCI6149 - Social Studies of Science, Technology Environment.**

*Three credits. Three hours of discussion and seminar per week.*

This graduate seminar begins with an overview of the field of social studies of science and technology, and discussion of the multiple, converging points of origin of this field, which include Marxism, actor network theory, feminism, and symbolic interactionism. The course then examines what the field of social studies of science and technology has had to say about environmental problems. This part of the course includes a discussion of the field as an effort to intervene in environmentally destructive patterns as they are mediated by science and technology, including a section on government regulation focused on the following subtopics: science as a resource in these efforts, the problem of uncertainty, blocking science, undone science, public participation and consensus conferences-and advocacy in civil society for environmentally sustainable science, technology, and industry.

**SOCI6205 - Independent Study.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE PROFESSOR*

Independent study of special topics of interest to the student and professor. 10-10-94

**SOCI6801 - Graduate Seminar I.**

*Three credits. Three hours of seminar per week Corequisites: SOCI6911*

Seminar of presentations and discussion of the process of searching sources and organizing bibliographies, the definition of objects of study, the formulation of research of problems and questions, theoretical and methodological approaches, ethical considerations, and the writing of a research proposal. Emphasis on participation and effective communication in the group. Course face-to-face, hybrid and online modalities.

**SOCI6802 - Graduate Seminar II.**

*Three credits. Three hours of seminar per week Prerequisites: SOCI6801, Corequisites: SOCI6912*

Seminar of presentations and discussion of research designs, data collection techniques, methods of analysis, ethical protocols, the process of writing and revising drafts, and redacting the final version of the thesis. Emphasis on participation and effective communication in the group.

**SOCI6901 - Thesis II.**

*No credits. Three hours of meetings per week by agreement with the director Prerequisites: SOCI 6900 AND PERMISSION OF THE DIRECTOR*

Advise and direction in the development of the thesis proposal. 10-10-94

**SOCI6911 - Master Project I.**

*One credits. One hour of tutorial per week Corequisites: SOCI6801*

Tutorial in bibliographic searches, compilation of an annotated bibliography the definition of objects of study the formulation of research problems and questions, possible theoretical and methodological, approaches, ethical considerations, and the writing of a thesis proposal for an article published in a peer-reviewed academic journal.

**SOCI6912 - Master Project II.**

*One credits. One hour of tutorial per week.*

Tutorial in research and writing of a thesis, defined as a publishable article in a peer-reviewed journal.

**TSOC6000 - Graduate Exam Seminar.**

*No credits. One hour of seminar and two hours of study per week Prerequisites: TO HAVE PASSED ALL OR THE MAJORITY OF THE MEDULAR COURSES OF THE STUDY PROGRAM TO WHICH THE STUDENT BELONGS.*

The seminar will provide students for the integration of theoretical and methodological content from the

foundation areas in the masters of social work curriculum in order to prepare the conceptual piece of a research proposal. It includes the review of the most relevant aspects in the development of a research proposal and the integration of theoretical-methodological, technical- operative and ethical-political course content in the foundations curriculum areas of the master's in social work program which include human behavior and the social environment; professional practice; social policy; and research.

### **TSOC6006 - Social Work Research.**

*3 credits. One hour of lecture and two hours of discussion per week Prerequisites: TO BE ADMITTED TO THE SCHOOL.*

Provides students with basic knowledge of quantitative and qualitative social work research. From a quantitative perspective problem formulation, hypothesis, research design, sampling, data collection and analysis is discussed within the positivist paradigm. Constructivism is used to discuss problem formulation, research design and data collection and analysis from a qualitative perspective.

### **TSOC6011 - Dynamics of Social Functioning.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: TO BE ADMITTED TO THE SCHOOL.*

It is the first course in the human growth and social environment sequence, designed to provide basic knowledge and understanding of the individual's growth and social functioning within a systematic perspective. Various behavioral and personality theories are critically examined and analyzed in order to develop skills the assessment of the individual's functioning.

### **TSOC6013 - Critical Perspectives on Health and Its Implications For Social Work.**

*Three credits. Two hours of lecture and one hour discussion per week.*

Students will develop a critical perspective of the concepts of health and illness within our historical and cultural background by discussing the following topics: the subject of health in the social sciences (ss), changes undergone by public health practices in the last decades, key ideas in the public health endeavor (morality and risk), social differences created by existing definitions of health and illness, and the role of health professionals (j. E. Sw), in the definition of health and illness. These subjects will be addressed by critically reflecting about the role of power and social control that these definitions entail and the way in which these definitions have been changed historically in order to control populations. These control mechanisms are manifested in individual diagnosis, public health campaigns, health laws, and in the daily practices of the ss. Students will explore strategies in response to these critical perspectives (e.g., Community work and social policies).

### **TSOC6018 - Social Work with The Elderly.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

Development of knowledge, attitudes and skills in field of gerontology that will prepare social workers for an effective intervention. Analysis of the impact of existing theories on public policies. Development of prevention and intervention skills in the context of the Puerto Rican social reality. Special attention to social research and to the preparation towards work in interdisciplinary groups. 10-10-94

### **TSOC6021 - Practicum in Social Work I.**

*3 credits. Prerequisites: CORE COURSES.*

Laboratory type experience aimed at integration of classroom knowledge and at offering students the opportunity to become acquainted with programs and service in various practice settings. (c)

### **TSOC6022 - Field Instruction in Social Work II.**

*Four credits. Prerequisites: TSOC 6021.*

Supervised experience in a given agency or special university field center aimed to develop generic social work practice skills.

**TSOC6027 - Advanced Practicum Is Social Work II.**

*Three credits. Three hours of lecture per week Prerequisites: SOWO 6021 AND PERMISSION OF THE DIRECTOR.*

Professional intervention in more complex situations of vulnerable and oppressed social groups from a scientific perspective. Critical analysis of the impact of social policies on these groups and action for change. (c) 10-10-94

**TSOC6028 - Advanced Practicum in Social Work III.**

*Three credits. Twenty hours of laboratory or workshop per week Prerequisites: SOWO 6021, SOWO 6027.*

The development of a scientific, critical and objective orientation of the social reality and of the social policies as basis for the social work intervention. This orientation should lead to concrete proposals that will contribute to minimize or eliminate the dependency of a large number of the social worker clientele. (c) 10-10-94

**TSOC6037 - Theoretical Approaches to The Family.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**TSOC6038 - Crisis Intervention.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Acquisition of knowledge, attitudes and skills in the intervention of crisis situations in the Puerto Rican socio-cultural context. It has a preventive approach and prepares the student for interdisciplinary group work. It analyzes intervention models and their adequacy to the socio-cultural context. Emphasis is given to the analysis of public policy and research. (c) 10-10-94

**TSOC6055 - Analysis of The Social Context.**

*Three credits. Three hours of lecture per week.*

Critical study of the macro-structure in the economic, political and social dimensions. Analysis of the economic development model; economic, political and psychological dependence and its impact on social policies and the quality of life of the oppressed and vulnerable groups. Social diagnosis of Puerto Rico and change alternatives. (c) 10-10-94

**TSOC6056 - Social Work Practice Systematization.**

*Three credits. Two hours of discussion and one of lecture per week Prerequisites: TSOC6091, 6092 AND 6093*

Systematization is a methodological proposal for the critical interpretation of the practice experience which makes possible the construction of knowledge production is to promote equality and social justice prioritizing the intention of policies oriented towards transformation. This course is oriented towards capacitating and developing skills in the processes of systematization in social work practice at different professional intervention levels. Its content includes the conceptual and characteristics basis of systematization, differentiation and complementarities of diverse social practices in knowledge production, epistemological foundations which supports systematization and debates around it, diverse methodological proposals for systematization as well as the systematization experiences in Puerto Rico and Latin America.

**TSOC6057 - Comparative Analysis of Theories of Human Behavior.**

*Three credits. Three hours of lecture per week.*

Critical and comparative analysis of human behavior theories from different perspectives, their applicability

to the professional context and relevance to the development and analysis of social policies with emphasis on prevention and an interdisciplinary approach. Analysis of research and literature relevant to the Puerto Rican context. (c) 10-10-94

**TSOC6058 - Organizational Behavior and Social Work.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

Provides the knowledge and the opportunity to develop attitudes and skills related with the interaction of individuals, groups and structures and its effect on the organizational behavior in agencies of human services in Puerto Rico. Special attention to the impact and analysis of public policy and research. The approach of the course will be directed towards the preparing of the students to work in interdisciplinary groups in the organizational context. 10-10-94

**TSOC6059 - Theories of Criminal Behavior.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

Study and critical analysis of criminal behavior theories. Special attention will be given to the pertinence of the theories to the prevention and intervention of the social workers professionals in the context of the Puerto Rican social reality. Aspects of public policy and research will be considered. Special emphasis to interdisciplinary group work. 10-10-94

**TSOC6065 - Analysis of Social Welfare Policy And Service.**

*Three credits. Three hours of lecture per week.*

Study of the conceptual, theoretical and methodological basis of social policy analysis. Critical examination of explanatory thesis about the origin of social policies, approaches to the social welfare system and the increasing intervention of the state in this context. Study of approaches to social policy analysis with emphasis on research. (c) 10-10-94

**TSOC6066 - Social Movements and Social Work.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

The development of knowledge, attitudes, and skills that will capacitate the student to analysis and research of the different social movements in Puerto Rico, Latin America, and other parts of the world. Promotes the development preparation towards interdisciplinary group work, the critical analysis of the impact of the social movements on the public policies of the country and the scientific approach towards these social phenomena. 10-10-94

**TSOC6075 - Identity and Diversity in Social Work Practice.**

*4 credits. Two hours of lecture and one hour of discussion per week.*

Studies the impact of the economic, political, social, cultural structures in the formation of the individual and collective identity of Puerto Ricans living in the USA and pr according to conditions of class, race, and gender. The difference between oppression. Discrimination and prejudice are clarified specifically as it relates to classism, racism, colonialism, eurocentrism, and sexism. Students will analyze the responses of the social work profession to the needs of different social groups which has been discriminated in pr and the USA due to their condition of class, race, ethnicity and gender and their struggles to promote social justice. Visits to community-based organizations, and public agencies which attend issues of class, race, and gender in pr and the USA.

**TSOC6091 - Social Work Professional Practice I (casework).**

*3 credits. Three hours of lecture per week.*

This course is one of the six modular courses of the masters' program in social work and the first in a sequence of three regarding professional practice. The course is centered around the discussion analysis of



theoretical and conceptual frameworks geared toward direct intervention with individuals, families and small groups. It includes basic and particular content applicable to professional intervention with these human systems. It pursues a deeper understanding and a refinement of the skills of interviewing, social histories and report writing, problem definition, assessment statements, action plan formulation, evaluation and measurement. Emphasis is given to preventive intervention, highlighting at the same time the interdisciplinary work. The student will have the opportunity to examine and analyze a model of direct intervention that could be used with the aforementioned human systems in a scientific way.

### **TSOC6092 - Professional Practice in Social Work II.**

*3 credits. Three hours of lecture per week.*

Second course in the sequence of advanced professional practice in social work (SW). A variety of aspects in community organizing are critically examined in the context of community work in Puerto Rico, with particular emphasis on social work. Diverse theoretical foundations are applied to intervention models that promote community capacities to improve their well-being through participation in issues affecting them. Intervention models are examined including community development, social planning, and social action, applied to geographic and functional communities. The relevance of these models to oppress and vulnerable sectors is critically analyzed. Emphasis is given to processes of decision making, self-agency, empowerment and leadership development. The professional role and the collaboration with other professionals are clarified.

### **TSOC6093 - Professional Practice in Social Work III (administration Of Social Services).**

*3 credits. Three hours of lecture per week.*

This is the third core course for the advanced social work professional practice sequence. The social work profession is usually practiced within the context of an organization that sponsors programs and human services. Generally, has been practiced in government organizations but has been shifted into more private and autonomous settings.

### **TSOC6097 - Community Development and Processes.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: TSOC 6092.*

Required course for students from the community social work major, an elective for students from other disciplines. It makes an in depth study of: the components of community development (cd) in the context of the pr reality; the processes involved in satisfying the needs of communities and confronting the obstacles and limitations that hinder their full development and well-being, including prevention and solution of social problems; the impact of socio-economic development policies in state planning and cd, considering the power dynamics between state, institutions and popular sector; the CSW roles, theories and methodologies which prepare him/her to intervene in community processes. The processes of leadership, participation, organization, decision making, planning, action research, and community accountability are emphasized as key elements in the development of the community's potential, their self-agency and interdependence toward the integral transformation of pr.

### **TSOC6099 - Social Work Management for Social Welfare Programs.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: TSOC 6093-ADVANCED PROFESSIONAL PRACTICE IN SOCIAL WORK III.*

This is required course for students majoring in the area of administration of social programs. It is geared toward facilitating a deeper understanding of the knowledge, skills and attitudes necessary for an effective management of social programs in Puerto Rico. The course aims to prepare students so that they assume a proactive position at implementing social policy from within social programs. It analyzes the impact of economic and political forces in opposition to organizational transformation to respond to client needs and demands for services. It includes the theoretical foundation for the practice of administration from an open

system perspective. It examines the relationship between social policy and management of public and private welfare programs from a humanistic and a scientific point of view. It emphasizes the political dimension of managerial leadership and participatory decision making.

**TSOC6101 - Social Work with Individuals and Family I.**

*Two credits. One hour of lecture and two of discussion per week Prerequisites: TSOC 6001.*

Stresses the dynamics, the techniques and the practice models utilized for helping persons and families in the solution of problems that are adversely affecting their social functioning.

**TSOC6105 - Administration of Social Services Agencies.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: SOWO 6005*

Aimed at facilitating the transition from direct practice to management positions in the social services field. Offers basic theoretical and practice knowledge in apply to the administration of social agencies. 10-10-94

**TSOC6106 - Social Work and Mental Health in Puerto Rico.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR*

Development of basic knowledge, attitudes and skills to intervene, within an interdisciplinary approach, at preventive and curative levels with mental health conditions in children, adolescents, adults and the elderly. 10-10-94

**TSOC6107 - The Social Worker Intervention with Terminally Ill People.**

*Three credits. One hour of lecture and two hours of laboratory or workshop per week Prerequisites: SOWO 6091 OR PERMISSION OF THE DIRECTOR*

Provides advanced empirical and methodological basis for the intervention with terminally ill persons, their families and the community.

**TSOC6108 - Political Process and Social Community Action in Social Work Practice.**

*Three credits. Prerequisites: TSOC 6092.*

This course analyzes community social action and political processes in the Puerto Rican social environment. It studies processes related to changes in power relations, resource distribution and social institutions. It also examines the relations between political process, social action and social policies. The process is examined as a tool to achieve larger community participation in decision making process and management, to prevent and solve social problems, to fight against social injustice and defend the rights of oppressed groups in the communities. The course will facilitate the development of knowledge, aptitudes and skills, in order to promote the participation of community groups in the formulation, development and changes in public policies that affect them. The intervention emphasizes the use of the scientific method, interdisciplinary work and an ethical and political approach.

**TSOC6111 - Social Work with Groups I.**

*Two credits. One hour of lecture and two of discussion per week Prerequisites: TSOC 6001.*

Attention is given to group diagnosis, individual needs, and the acquisition of social work skills based on the utilization of group processes to satisfy needs of its members. Emphasis is given to group services to emotionally disturbed individuals or to social deviants. Professional intervention is geared to the dynamics of helping individuals to gain personal and social development through group experiences.

**TSOC6117 - Social Work Groups In Social Program's Administration.**

*3 credits. One hour of lecture, one hour of discussion and one hour of laboratory per week Prerequisites: PROFESSIONAL PRACTICE IN SOCIAL WORK III (ADMINISTRATION OF SOCIAL SERVICES) STUDENTS OF OTHER*

*MAYOR SHOULD REQUEST AUTHORIZATION. TSOC6093*

This is a required course for students majoring in the area of administration of welfare programs and an optional course for students from all other social work majors. The purpose of the course is to introduce group work skills into administrative processes. It focuses on the development of social work group methodology as an instrument to promote institutional transformation to improve the quality of services. The content discussion includes different theories and models for social work group congruent with the organization environment. It also emphasizes the study of different types of groups and discusses group development, and communication techniques appropriate for social work management.

**TSOC6126 - Group of Social Work In Community Organization.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: TSOC 6092-ADVANCED PROFESSIONAL PRACTICE IN SOCIAL WORK II.*

This course is required for students in the community social work major and elective for students in other disciplines. The course is oriented toward the intervention of social workers with groups in communities. It emphasizes task-oriented groups geared to meet the organizational needs of Puerto Rican communities and their socio-economic reality. The content of the course includes fundamental areas such as: social work with task-oriented groups; theoretical concepts, organization and work with diverse groups; stages in group development; phases in group implementation; and professional intervention. Research findings will be examined as they apply to working with community groups. The course includes the analysis of social policies that affect the work with groups as a modality of professional intervention, and how groups are also impacted by social policies developed at the community level.

**TSOC6131 - Research Seminar and Thesis I.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: SOWO 6006.*

Expands on the student's fundamental knowledge base of social research. Examines in detail selected research designs, the statistics techniques applicable to these designs, and issues in the application of the design. Students will begin an empirical research project on a human services problem. (c) 10-10-94

**TSOC6132 - Research Seminar and Thesis II.**

*Three credits. One hour of lecture and two hours of laboratory work per week Prerequisites: SOWO 6131.*

To apply knowledge and experiences on scientific research to the research project. Emphasis on analysis of statistical data in the written report. (c) 10-10-94

**TSOC6135 - Computer's in Social Research.**

*Zero credits. Two hours of computer laboratory and one hour of tutorship per week.*

This is a five-week program which has the purpose of helping students get acquainted with the ways in which a pc and the university of Puerto Rico computer's system could be used to conduct statistical data analysis of the information gathered for their master's thesis. The course is a complement to the thesis seminar TSOC 6132. 13-08-02

**TSOC6146 - Theory and Methodology Of Social Work With Small Groups.**

*Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week Prerequisites: TSOC 6091- ADVANCED PRACTICE IN SOCIAL WORK I.*

This is one of the required courses for the major in social work centered in families. The main purpose of this course is that students widen their know- ledge, aptitudes and skills to perform with increasing self- confidence and effectiveness while using this intervention modality. It will emphasize the preventive work through support groups that orient, educate and provide assistance for personal growth. It will analyze current research that studies the adequacy of the models to high-risk or segregated groups in the Puerto Rican society. Social policy and research issues addressing group work as an intervention model will be

discussed.

**TSOC6152 - Theory and Methodology of Social Work with Families II.**

*Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week Prerequisites: TSOC 6091- ADVANCED PRACTICE IN SOCIAL WORK I. AND THEORY AND METHODOLOGY OF SOCIAL WORK WITH FAMILIES I.*

This is the second of two courses in family intervention. The course provides students with knowledge, attitudes and skills to work with families. Its content includes a historical social perspective, emergent family intervention models such as the feminist, narrative and conflict mediation model and an analysis of the social policies that affect families and the effectiveness of family intervention techniques.

**TSOC6165 - Theory and Methodology of Individual Social Work.**

*Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week Prerequisites: TSOC 6091-ADVANCED PRACTICE IN SOCIAL WORK I.*

This is a required course for students of the major in social work centered in families. This course provides students a theoretical and methodological foundation about the intervention process with individuals in the three levels of prevention, within an interdisciplinary framework. The course emphasizes the factors that characterizes Puerto Rican social environment and their impact in family dynamics. It discusses people's development and maintenance of problem-solving skills and intervention strategies during people's lifespan. It will address research and social policy issues and their implication in social work practice.

**TSOC6229 - Social Work Supervision.**

*Three credits. Three hours of lecture per week Prerequisites: SOWO 6093 AND AUTHORIZATION OF THE DIRECTOR*

Methodological, administrative, educational and emotional support foundations of the supervisory process at the intermediate level. 10-10-94

**TSOC6230 - Supervision of Direct Services Personnel In Social Work.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: TSOC 6229- SOCIAL WORK SUPERVISION AND OTHER STUDENTS ASK FOR A SPECIAL PERMISSION TO REGISTER IN THE COURSE.*

This course is an elective for students that are majoring in the area of administration of welfare programs. It expands the content of general concepts and techniques discussed in a required course on models of social work supervision. It intends to apply innovative models of interactive supervision with direct service providers in family group therapy, as well as other group intervention models. The course discusses recent literature and research findings particularly in the area of interpersonal relationships, necessary for social work supervision in welfare agencies. It also discusses the role of social workers as supervisors and group leaders who promote changes in institutional climate and the supervision of direct services personnel.

**TSOC6236 - Middle Management in Human Service Agencies.**

*Three credits. Three hours of lecture per week Prerequisites: TSOC 6093 AND 6229*

To develop in the student knowledge, attitudes and skills that will propitiate the acceptance and performance of the role of middle management. Special emphasis will be given to the study of the relationship between social and administrative policies from a scientific perspective. The course will provide condition, design, implementation and analysis of social services programs. 10-10-94

**TSOC6237 - Family Intervention.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**TSOC6240 - Individual Intervention with Adults And Older People.**

*Three credits. Three hours of lecture per week Prerequisites: SOWO 6037 AND SOWO 6237*

Advanced theoretical and methodological framework in reference to the intervention process with adults and older adults from a preventive, rehabilitative approach. Special emphasis will be given to interdisciplinary group work. 10-10-94

**TSOC6265 - Social Work and Gender.**

*3 credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Critical analysis and intervention with problems that affect woman as member of the family and of the Puerto Rican society. Special emphasis will be given to the dominant ideology and its impact on social policy related to woman. Special attention will be given to research data, prevention and the development of preparation for interdisciplinary group work.

**TSOC6270 - Social Work in Community Development.**

*Three credits. Three hours of lecture per week*

Study of the model for community development and its application to the socio-economic reality of Puerto Rico for the prevention and solution of social problems. Analysis of the policies which orient the development of the country and the contribution that the community development can make for the benefit of popular sectors. Includes the relation between the process of community intervention and social research. 10-10-94

**TSOC6286 - Social Work in Participatory.**

*Planning. credits.*

Participatory planning and its importance in the defense of the human rights of residents in various communities in Puerto Rico and other Latin American countries. A conceptual, theoretical and methodological foundation will enable the student to act as a planner in conjunction with community sectors. Social planning systems and models, approaches to an understanding of community participation, and strategies in participatory planning. Students will acquire a scientific outlook, so they may critically examine social planning and its policies. Emphasis on the prevention of community problems and on securing the maximum welfare of residents through their participation in the planning process.

**TSOC6287 - Social Action in Social Work.**

*Practice. credits. Prerequisites: SOWO 6270, SOWO 6286, AND PERMISSION OF THE COORDINATOR.*

Defense of the rights of oppressed social groups through social action, aimed at changing the institutions, power relations and social policies which alienate and disenfranchise these groups.

**TSOC6288 - Program Evaluation and Proposal.**

*Development. credits. Prerequisites: BASIC COURSE IN THE SPECIALIZATION (DOES NOT APPLY TO STUDENTS FROM OTHER COLLEGES OR GRADUATE PROGRAMS).*

Provides students the knowledge, attitudes, and skills needed in order to co conduct evaluative research and develop proposals within the Puerto Rican institutional setting implications of [rprgra, evaluation for social policy: evaluation from the perspective of interdisciplinary group work.

**TSOC6289 - Social Work and Domestic Violence.**

*3 credits. Prerequisites: AUTHORIZATION WITH DIRECTOR.*

The etiology of domestic violence, especially as it occurs in Puerto Rico. Attitudes and skills in the management of domestic violence. Emphasis on strategies for prevention and intervention; on the impact of public policies which relate to this issue; on research on this problem. Aimed at finding interdisciplinary solutions.

**TSOC6296 - Social Work and Alcoholism In Puerto Rico.**

*TSOC6296 - Social Work and Alcoholism In Puerto Rico. Prerequisites: SOWO 6091.*

Development of knowledge, attitudes, and skills for for intervention in preventing and treating alcoholism. The impact of alcoholism upon various population sectors and the socio-cultural and legal aspects connected with the use and abuse of alcohol. Critical analysis of the impact of public policies and abuse of alcohol. Critical analysis of the impact of public policies and scientific research. Emphasis on preparation for interdisciplinary group work.

**TSOC6297 - Expertise In Social Work.**

*Three credits. Three hours of lecture per week Prerequisites: FOR STUDENTS OF SECOND YEAR AND BEYOND.*

Knowledge, skills and attitudes needed by the social work expert or consultant. Emphasis on the roles of analyst, formulation or public policy, evaluator, consultant, researcher, communicator, and drafter of proposals. Research skills. The preventive aspect of the expert's role. Interdisciplinary approaches to the expert's work are explored. (c)

**TSOC6301 - Occupational Social Work: Professional Practice I.**

*TSOC6301 - Occupational Social Work: Professional Practice I. Prerequisites: SOWO 6037, 6237.*

Fundamentals of the occupational social worker's role with workers, companies, and the labor organizations that may be involved. The working person's potential for development to meet organizational change.

**TSOC6302 - Occupational Social Work: Professional Practice II.**

*TSOC6302 - Occupational Social Work: Professional Practice II. Prerequisites: SOWO 6301.*

Study of the basic components of occupational social work services in Puerto Rico. Topics include occupational counseling, information and referral services, the application of worker-protection laws, advocacy for worker's rights, and the design of projects and service programs. Examination of strategies and techniques for intervention at preventive and rehabilitative levels.

**TSOC6315 - Group Intervention with Children and Adolescents.**

*Three credits. Three hours of lecture per week.*

Theoretical and methodological foundations for preventive and rehabilitative group intervention with children and adolescents; from a family and multidisciplinary approach.

**TSOC6316 - Group Intervention with Adults and Aged.**

*TSOC6316 - Group Intervention with Adults and Aged. Prerequisites: SOWO 6037, SOWO 6237.*

Theoretical and methodological foundations for preventive and rehabilitative group intervention with adults and the aged, from a family and multidisciplinary approach.

**TSOC6317 - Individual Intervention with Children and Adolescents.**

*Three credits. Three hours of lecture per week Prerequisites: SOWO 6037, SOWO 6237. AUTHORIZATION OF DIRECTOR.*

Theoretical and methodological foundations for preventive and rehabilitative individual intervention with children and adolescents, from a family and multi-disciplinary approach. (c)

**TSOC6325 - The Political Process and Social Policy.]**

*TSOC6325 - The Political Process and Social Policy. Prerequisites: SOWO 6270, 6286.*

The political process and the scientific method in formulating, developing and changing social policies. Political action in professional practice.

**TSOC6326 - The Social Worker Within the Legal Context.**

*TSOC6326 - The Social Worker Within the Legal Context. Prerequisites: SOWO 6091.*

Development of knowledge, attitudes, and skills of the social worker within the legal context. Study of judicial institutions and the legislation related to the profession, functions and roles of the social worker. Develops preparation for interdisciplinary work.

**TSOC6327 - Social Work Promotion of Local Economic Development.**

*TSOC6327 - Social Work Promotion of Local Economic Development. Prerequisites: SOWO 6270.*

Examination of the economic function of the community, the basic concepts of the economic development of the community, and the factors that may encourage or obstruct the phases of this process. Emphasis on critical analysis of socio-economic experiences in the other countries and the factors that impact local economic development.

**TSOC6345 - Independent Study in Social Work.**

*Three credits. One hour of discussion and two hours of independent study per week.*

Offers the opportunity to deepened student's knowledge in a particular area of interest in the field of social work. The student with the guidance of a professor will identify and discuss the theories, intervention models and recent research studies in the area selected.

**TSOC6896 - Research and Thesis Seminar III.**

*No credits. Thesis Prerequisites: TSOC 6132.*

This course enables students to conclude their master thesis and maintain their active status, under the direction of their advisors. Students must be registered in the course until completion of their thesis. (c) 11-08-97

**TSOC8005 - Philosophical Foundations of Social Work.**

*Three credits. Three hours of lecture per week.*

This course is geared to the analysis of two of the central dimensions of social work: it's epistemological and conceptual underpinnings. From these two standpoints, students will enter the sometimes, contradictory process of modernity. Through a systematic perspective, the course will provide students with the basic tools that will enable them to explore the connections between social work and the conceptual matrix within which it develops. It is expected that this knowledge will help students achieve more rigorous interpretations of complex social realities and processes. 13-08-02

**TSOC8006 - Theories for the Analysis of Social Policy and Organizational Behavior within the Context of Puerto Rico.**

*Three credits. Three hours of lecture per week.*

The course integrates the theoretical aspects for the analysis of social policy with contextual factors and the organizational behavior related to its implementation. Recent research related to the analysis of social policy in Puerto Rico is discussed. It also integrates the theoretical aspects of social analysis with contextual factors and organizational behavior in the implementation of social policy. Puerto Rican economic, social and political conditions, as reflected in professional literature, is analyzed. 13-08-02

**TSOC8007 - Program Evaluation and Social Services.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: COURSE OF SOCIAL INVESTIGATION OR DESIGN OF INVESTIGATION.*

Study of conceptual, theoretical, ethical, and methodological aspects of the evaluation of social services and programs. The course examines the relevance of evaluation in the development and implementation of social policies and decision making. It promotes the analysis of diverse perspectives, evaluation models and

procedures. It will also provide a theoretical and conceptual framework for the development and implementation of services and program evaluation.

**TSOC8008 - Theories in Communication, Public Policy and Communities.**

*Three credits. One hour of lecture and two hours of discussion per week.*

Three credits. One hour of lecture and two hours of discussion per week.

**TSOC8009 - Seminar on The State and Social Policies.**

*Three credits. One hour of lecture and two of seminar per week Prerequisites:*

*TSOC8005,8006,8015,8016,8101,8102,8103*

This seminar pretends to promote an in-depth analysis on the state and its social policies throughout the last 150 years. It is postulated that despite that social policies, in any geographical and moments in time, are generated to address particular social situations such as unemployment civil rights, criminal behavior , adequate housing, health, migration, social and economic exclusion and other issues associated with the public sphere, it is also true that the specific way through which those policies are articulated is closely linked to the nature of the state that promotes and embeds them. Accordingly, the seminar pretends to address critically the various conceptions of the state: functionalists, instrumentalists; from the scope of various theoretical perspectives, such as Marxists neo-Marxists social-democrats, Weberian, liberals and neo-liberals, post-modern and feminists, as well as some new and more eclectic approaches, such as as "the reconstitution of the welfare state debate", the notion of "cooperative state", the "failed states debates".

**TSOC8015 - Oppression, Justice and Social Policy.**

*Three credits.*

In-depth analysis of the dynamics of oppression including a historical perspective of this phenomenon and its effects in systematically impeding the development of the full individual and collective well-being. The value assumptions of social equality are studied as well as the factors that promote marginalization, exploitation, cultural imperialism, power and violence. The social political, economic, and cultural factors that configure the present social arrangements in Puerto Rico and their influence in promoting institutionalized oppression and social injustice, are carefully examined. Other countries experiences (similar of different) are analyzed. A selection of social policies geared to address inequality and marginalization are analyzed in the context of federal policies, neoliberalism and globalization. The discussion of topics related to race, ethnicity, gender, class, among others, are included. 21/01/2003

**TSOC8016 - Social Work Practice Administration Models.**

*Three credits.*

This course examines the historical and theoretical development of social work administration as an area of social work practice. The course emphasizes the critical analysis of the theoretical and ideological base of social work administration models, approaches and perspectives and its relationship with social policies. During this process students examine their professional intervention, share their analysis with other students and propose theoretical models for social work administration practice. Administrative models developed in social work will be analyzed and compared with models developed in other disciplines. 21/01/2003

**TSOC8055 - Mixed Methods in Social Research and Their Implications for Public Policy.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: TSOC 8101, 8102, 8103.*

Social research has been polarized in many debates regarding epistemological, ontological and methodological issues. One of the most important debates has been related to the integration of qualitative and quantitative research techniques. Although this is an area under development, many of the questions that arise from this integration are still unanswered. As if this situation was not complex enough, when these techniques are integrated their implications for social work and the social sciences in general are less clear. In



the case of research related to the development and evaluation of social policies, it is urgent to explore the implications of this integration. On one hand these techniques concentrate on the local, specific and narrative. On the other, they focus on the generalizable, ample, and quantifiable. Through this course the theoretical and methodological implications of mixed methods will be explored along with their applicability to social policy research.

### **TSOC8101 - Advanced Social Research I: Methodological Design and Its Application To Social Policy Research.**

*3 credits. Three hours of seminar per week.*

This is the first course of a sequence of three (3) in the area of social research. It is an introduction to the epistemological and methodological design considerations related to social sciences in general, and social work in particular. Throughout the course the following issues are examined: theoretical controversies related to epistemology and design, ethical aspect of research, specific techniques, and data analysis mechanism available to researchers. Controversies related to the use of social research for the benefit of marginalized populations are also explored. Social research will be addressed through the myriad of possibilities for the promotion of change related to social justice. This is done by understanding the implications of the course subjects for social policy research, specifically its role in its development and evaluation. Students will have the opportunity to develop ideas through which they will explore the applicability of different models to specific subjects in the Puerto Rican, Caribbean, and Latin American scenario, or any other in which the student proceeds from.

### **TSOC8102 - Advanced Social Research: Quantitative Data Analysis with The Use of SPSS.**

*3 credits. One hour of lecture, one hour of discussion and one hour of workshop per week Prerequisites: TSOC 8101.*

This course is the second in a sequence of three (3) in the area of social research. It is an introduction to the process of quantitative data analysis from an applied perspective and through the use of computer software for data storage and analysis. Through the course general aspects related to data analysis, the use of statistics as the data analysis technique, and the role of the software program "statistical package for the social sciences (SPSS)" in this process are examined. In this process students will have the opportunity to become exposed to the central aspects of quantitative data analysis from theoretical and applied perspectives. Through specific data analysis exercises they will be able to establish relations between the acquired knowledge and their research studies, particularly those related to their dissertation work.

### **TSOC8103 - Advanced Social Research III: Qualitative Research.**

*3 credits. One hour of lecture, one hour of discussion and one hour of workshop.*

This course expands on and explore in depth the content of qualitative research introduced in advanced research i. Emphasizes on qualitative research as an appropriate methodology for the development of knowledge relevant for social work and for social policy formulation and implementation. The students have the opportunity to examine qualitative methods as a basis for preparing and analyzing legislation, social policy and programs that responds to the needs of diverse population groups. The course also includes the application of qualitative methods and techniques for the study of legislation, social policies and social programs.

### **TSOC8401 - Policy Analysis Project.**

*Two credits. Three hours seminar month and four hours internal week Prerequisites: EVERY COURSE MEDULLARY AND REQUISITE OF CONCENTRATION.*

The course provides a hands-on experience through which students will apply skills and knowledge acquired in the core courses and courses in the major area. It gives the students the opportunity to choose among various experiences of analysis, formulation and implementation of some specific social policy. Among the

options available are analysis of and existing social policy, analysis of the implementation of and existing social policy (program evaluation), and the formulation of new social policy to address an unattended or poorly attended social problem. Emphasis is given to those policies addressing the needs of marginalized and excluded populations. The final paper will include a critical assessment of the existing state of affairs, as well as concrete, viable alternatives.

**TSOC8405 - Dissertation Seminar.**

*One credits. Three hours of seminar per week Prerequisites: ALL THE MEDULAR, THREE COURSES OF INVESTIGATION, THREE CONCENTRATION AND TWO ELECTIVES.*

Formulation and discussion of ideas that will be further developed as a dissertation proposal. These include both theoretical as well as methodological aspects of the dissertation topic. Exposition to the scrutiny of peers and professors will contribute to achieving a clearer definition of the original ideas.

**TSOC8406 - Policy Analysis Project.**

*Two credits. Three hours seminary and four boarding school per week*

The course provides a hands-on experience through which students will apply skills and knowledge acquired in the core courses and courses in the major area. It gives the students the opportunity to choose among various experiences of analysis, formulation and implementation of some specific social policy. The field component can be in the legislature, public or private agency or social welfare organization. The student will be supervised by a professor assigned by the doctoral program. Among the options available are analysis of an existing social policy, analysis of the implementation of an existing social policy (program evaluation), and the formulation of new social policy to address an unattended or poorly attended social problem, emphasis is given to those policies addressing the needs of marginalized and excluded populations. The final paper will include a critical assessment of the existing state of affairs, as well as concrete, viable alternatives.

**TSOC8501 - Doctoral Dissertation in Social Work I.**

*Three credits. Three hours of meeting per week*

The doctoral dissertation synthesizes knowledge acquired in previous coursework and demonstrates the student's ability for independent research. The student will present and defend a research proposal pertaining to the analysis, formulation, implementation, and evaluation of social policy before the dissertation committee.

**TSOC8502 - Doctoral Dissertation in Social Work II.**

*No credits. Prerequisites: TSOC8501*

This course enables students from the doctoral program in social work to conclude their doctoral dissertation, working the required changes after the reading and evaluation required by the dissertation counselor. At the end of the semester, the students will defend their dissertation as part of the requisite for their ph. D. Degree.

**SCHOOL OF LAW**

**DERE7006 - Torts.**

*Three credits.*

Civil and common law principles of liability for wrongs to persons, property or other interests. Stress on the interaction of civil law and common law in Puerto Rico. (c) 10-10-94

**DERE7007 - Property.**

*3 credits.*

Study of rights over things vis-a-vis rights to credit. Classification. Possession and the right to possess. The

right of property, its evolution and forms. Methods of acquiring property. Usufruct, servitude, security and warranty, and homestead rights.

### **DERE7008 - Family Law.**

*Three credits.*

The family as a social and legal institution. Distinction of persons, absence, marriage, divorce, filiation, patria protests, tutorship, emancipation, registry of civil status. 10-10-94

### **DERE7010 - Theories of Justice.**

*Three credits.*

Elective course in which the students will approach and discuss the contemporary theories of justice. The specific syllabus can include a combination of the main exponents of the theories of justice such as: John Rawls, Robert Nozick Ronald Dworkin, Gerald Cohen, Catherine Mckinnon, Iris Marion Young, Michael Sandel and Amartya Sen.

### **DERE7015 - Criminal Law.**

*3 credits.*

Study of the nature, characteristics, genesis, sources, and concepts of criminal law. Its historical evolution in Puerto Rico. The interpretation of criminal law and its temporal and territorial applications. The legality principle. The general theory of criminal offense. Analysis of the principles of criminal law, such as the act, culpability, illegality, imputability, aiding and abetting, attempt, joinder in criminal acts, statutory limitations, punishment, and security measures. This course will be offered face-to-face, hybrid and online. Effective August 2020. New descriptions began on August 14, 2000.

### **DERE7016 - Obligation and Contract Law.**

*Four credits.*

Rights in person. Classes of obligations. Their effects. Extinction of obligations, especially payment and novation. Individual and collective actions by the creditor. Evolution of the contract and its binding nature. Analysis of consent, the object, and consideration in contracts. Contract inefficiency by reason of inexistence, nullity, rescission, and cancellation. Special rescissions. The clause rebus sic stantibus. This course will be offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **DERE7017 - Civil Procedure.**

*Four credits.*

The course will integrate the code of civil procedure and the rules of civil procedure promulgated by the supreme court of Puerto Rico. Each student will study and comment on the procedural papers in actual litigation, from summons and complaint to judgement. (c) this course will be offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **DERE7018 - Constitutional Law.**

*Four credits.*

A study of state, federal, commonwealth of Puerto Rico relations. Comparative analysis of all problems discussed in the light of the decisions of the United States supreme court and the constitution of the United States and of the commonwealth of Puerto Rico. The federal government's power to regulate commerce and the limitations on state economic regulation. General powers of congress and their relationship to state and local government. Study of the principal political and civil rights. (c) this course will be offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **DERE7019 - Criminal Procedure.**

*Four credits.*  
Four credits.

**DERE7020 - Criminal Law (specific Crimes).**

*Three credits. Three hours of lecture per week Prerequisites: LAW 7015.*

Study of each of the specific crimes in the criminal law and other related statutes. 10-10-94

**DERE7021 - Federal Jurisdiction.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: DERE 7018 and 7017*

Study, analysis and reflection of article III of the United States constitution and the principal federal statutes regulating the exercise of federal jurisdiction. Concept, nature and scope of federal judicial power and the bases for its exercise. The distribution of judicial power between federal and states courts, the principles of federalism, the conflicts between the federal and the state judiciary and the doctrines developed to solve them. This course will be offered face-to-face, hybrid and online. Effective August 2020.

**DERE7025 - Law and Social Change.**

*Three credits.*

Legal aspects of development and social change. Analysis of present legal institutions and their adequacy in the solution of contemporary social problems. Study of legislation on planning, urbanism, housing, civil rights and poverty, and the development of legal trends in these and other areas as this course will be offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

**DERE7026 - Evidence.**

*Three credits.*

Three credits.

**DERE7027 - Commercial Contracts.**

*3 credits. Prerequisites: DERE 7016.*

3 credits. Prerequisites: DERE 7016.

**DERE7028 - Administrative Law.**

*Four credits.*

Analysis of the development of the administrative process. Study of the function of administrative agencies and of the administrative procedure. Examination of the investigative, interpretative, quasi-legislative, and quasi-judicial functions of administrative agencies. Since August 2013 adds prerequisite: dere7018 10-10-94

**DERE7029 - Estates.**

*Three credits.*

Three credits.

**DERE7035 - Mortgage Law.**

*Three credits.*

Nature and functioning of the registries of property. The registrar, recording of instruments. Form and effects of records. Cautionary notices. Mortgages. Mortgage law of Puerto Rico and regulations for its execution. Face-to-face, hybrid and online modalities. 10-10-94

**DERE7036 - Business Associations and Corporations.**

*Three credits.*

General principles of law relative to private corporations, including those principles relative to their

organization. Promoters and contractors. The distribution of corporate powers among shareholders, directors, and officers. Responsibility of directors. Shareholder's rights to inspect corporate books and derivative shareholder's suits. Special problems of closed corporations. This course will be offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **DERE7039 - Theory of Law.**

*3 credits.*

Survey of the basic topics and problems in legal theory, such as different conceptions of law, validity or legitimacy of legal norms, problems of legal methodology, key concepts of the prevailing legal order, and the relationship between law, power, social structure and ideology. The contributions of the various schools and currents of legal thought, with particular emphasis on the most recent developments in the discipline. This course will be offered face-to-face, hybrid and online. Effective August 2020. New descriptions began on August 14, 2000.

### **DERE7040 - Educational Policy and Law.**

*Three credits. Three hours of lecture per week Prerequisites: LAW 7018*

Analysis of the constitutional, statutory and regulatory factors that influence the governance of education, both public and private. Study of problem and constitutional norms relative to compulsory education; the juridical limits to teaching about religious, political or moral values; freedom of speech of teachers and students; the right of privacy in the school context; and the guarantees of due process of law. Consideration of the problem of discrimination based on race, ethnicity, gender, disability, or social condition, and the consequences the solution for the problem of discrimination have on education. Evaluation of the reform proposals, including the formulation of national standards, and privatization. 17-08-98

### **DERE7041 - Legal Aid Clinic.**

*3 credits. Prerequisites: TO HAVE APPROVED SATISFACTORILY 60*

An attempt to give the students practical experience in the handling of actual cases for legal aid clients, under the supervision of the director and the full-time attorneys employed by the clinic. Besides the regular class sessions, students will meet with professors as needed to discuss individual work. This course will be offered face-to-face, hybrid and online. Effective August 2020.

### **DERE7042 - Legal Aid Clinic.**

*Three credits.*

A continuation of law 7041. Since August 2013 adds prerequisite: dere7041 10-10-94

### **DERE7045 - Aviation Law.**

*Three credits.*

This course seeks to acquaint students with the fundamentals of the law governing the aviation industry, with emphasis on aircraft-related legislation and administrative problems in this field. 10-10-94

### **DERE7046 - Legal Practice Workshop.**

*Two credits.*

Direct and practical working experience in the professional legal environment. For two-month periods during the summer, students are placed in the offices of judges, government, agencies, the legislative reference service, and private law firms. (c)

### **DERE7048 - Civil Policy and Civil Rights Legislation.**

*Two credits. Two hours of lecture per week Prerequisites: LAW 7018.*

Study of federal legislation for the protection of civil rights. 10-10-94

**DERE7049 - Government Law: Executive Process.**

*Three credits. Three hours of lecture per week Prerequisites: LAW 7018.*

Study and analysis of the power of the executive, its sources, limits and the process by which it is exercised. The analysis will include both legal and practical-operational elements. 10-10-94

**DERE7055 - Economic Analysis of The Law.**

*Three credits. Three hours of lecture per week Prerequisites: FOR SECOND AND THIRD YEAR LAW STUDENTS.*

Study of those areas of political economy having particular relevance to the law. Exposition of the relevant economic principles into a systematic survey of the rules and institutions of the legal system, including torts, property, contracts, public regulation of the market, the regulation of business organizations and financial markets, the distribution of income and wealth, constitutional law, federal systems, and the legal process. 10-10-94

**DERE7056 - Energy and Law.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DEAN.*

Federal and Puerto Rican legislation regulations and decisional law applicable to the importation, production, transformation, allocation, cost, and conservation of energy. Policy framework, institutional structure and practice. Case studies illustrating typical legal problems. This course will be offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

**DERE7057 - International Commercial Arbitration.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: DERE 7017*

Study of the advantage of international commercial arbitration over other methods of solving disputes which arise out of international business transactions. Analysis of the procedures of such arbitration and of its relationship with national courts. 12-01-2000

**DERE7058 - Sexual Orientation Law.**

*Three credits. One hour lecture and two of discussion per week*

Study of sexual orientation, and the regulation of sexuality and sexual preferences in several legal contexts, including criminal law, freedom of association, the family, employment and education. 14-08-2000

**DERE7059 - Trademark Law.**

*Two credits. Two hours of lecture per week Prerequisites: DERE 7007.*

The course is designed for students without prior experience or knowledge related to trademarks. The trademark law course is designed to familiarize students with the trademark law of Puerto Rico. Known as trademark act of the government of Puerto Rico. Law 169 of December 16, 2009, as amended and the federal trademark law known as the Lanham act, 15 usc sec. 1051 et seq. And related doctrines. The course will focus on trademarks. "trade dress", unfair competition, among others. For each one we will discuss the reasons why protection is granted eligibility requirements, causes of action, affirmative defenses and remedies. The course also proposes to introduce the students to the process of filing trademark applications both in the Puerto Rico trademark office and in the United States trademark office and the process of issuing or granting trademark licenses.

**DERE7065 - Housing Legislation and Regulations.**

*Three credits. Two hours of lecture and discussion per week.*

A study of Puerto Rican, federal, and other housing legislation and regulation with respect to public and private housing, home construction, urban renewal, and pertinent governmental administrative structures. 10-10-94

**DERE7066 - Legal Profession and Professional Responsibility.**

*3 credits. Three hours of lecture and discussion per week.*

Study of the legal profession, its history, organization, and guiding principles. Analysis of professional responsibility including substantial instruction in rules of professional conduct, and the values and responsibilities of the legal profession and its members, analysis of different aspects of the legal profession's interaction with other social sectors and its relationship to processes of social transformation, contemporary political, social and cultural trends. This course will be offered in one of the following modalities: face to face, hybrid and online.

**DERE7068 - Legal Research and Writing.**

*Two credits. One hour of lecture and one hour of discussion per week.*

Study of the sources, methods, techniques and practices of legal analysis and research. Development, by means of practical and theoretical exercises, of the analytical and research skills needed for the study and practice of law. Introduction to contemporary electronic means and resources for conducting legal research. This course will be offered face-to-face, hybrid and online. Effective August 2020. August 14, 2000.

**DERE7069 - Research and Writing II.**

*Two credits. One hour of discussion and one hour of investigation Prerequisites: DERE 7068.*

In this course, the identification of complex legal controversies, the sources of law, with emphasis on specialized sources will continue to be studied in greater depth. Legal reasoning techniques and oral and written argumentation will be developed. The student body will apply the knowledge acquired in the legal research and writing i course and will analyze complex legal problems by preparing objective and persuasive writings addressed to a judicial or administrative forum. They will apply search skills in traditional media and electronic investigation resources to conduct complex legal research. They will also develop, through practical exercises, the drafting of legal documents to communicate the results of the investigation. This course will be offered under the face-to-face, hybrid and online modalities.

**DERE7075 - Gender Based Discrimination and The Law.**

*Three credits. Three hours of lecture per week.*

Study of gender-based discrimination in family relationships, in employment, education, and criminality. Examination of the support the law has provided gender-based discrimination and the different means through which the law may contribute toward equal opportunities to members of both sexes. 10-10-94

**DERE7076 - Securities Regulation.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: DERE 7036*

Study of the federal securities laws: securities act of 1933 and securities exchange act 1934. Analysis of the implementation of the securities regulation by the regulators (securities and exchange commission and "oficina del comisionado de instituciones financieras"). Examination of the relationship among the issuer and its shareholders. Discussion of the state participation in the regulation of securities offerings, particularly the scope and content of Puerto Rico uniform securities act. This course will be offered face-to-face, hybrid and online. Effective August 2020. 08-16-99

**DERE7077 - Notarial Law and Practice.**

*Three credits. Two hours lecture and one hour discussion per week Prerequisites: THE STUDENT OBLIGATION TO HAVE ACCUSTOMED COURSE AT LEAST TWO THIRD PARTS OF CURRICULUM OF THE SCHOOL OF LAW INCLUDING MORTGAGE LAW.*

Origins of the Puerto Rico notarial institution. History, development and effectiveness of the notarial

institutions. Study of the notarial law and its regulation. The public notary: requisites to become a notary, functions, duties and professional and ethical responsibilities. The notarial documents: drafting, and preparation of diverse notarial documents, preparation of protocol. Analytical study of case law on the subject matter.

### **DERE7085 - Legal Aspects of International Business Transactions.**

*3 credits. Three hours of lecture per week.*

Studies in the international legal aspects affecting commercial transactions between private entities domiciled in different countries. It provides an overview of the aspects of private international law common to all business transactions, such as dispute resolution, arbitration of international disputes and the framework of the world trade organization. Then it studies a number of specific business transactions that involve both domestic law and international law such as, by way of example, the international sale of goods, incorporating a business in another country, the creation of a joint venture investment in China, technology transfer with companies domiciled in the European union and the distribution contracts between companies based in the EU and USA. This course will be offered face-to-face, hybrid and online. Effective August 2020.

### **DERE7086 - Legal Aspects of The European Union.**

*3 credits. Three hours of lecture per week Prerequisites: LAW 7027 AND 7018.*

This course discusses the development of the European union since its inception as a project to promote peace in Europe after world war-II. It studies the development of the internal market via the neo-functional integration of economic communities and overseas its evolution up to the present Lisbon treaty with its emphasis on the constitutional development of the union through the concept of European citizenship. We will study the structure of the treaty on European union, the treaty on the functioning of the European union, the functioning of the more relevant European institutions such as the council, the commission, the parliament and the court of justice of the European union and the eu legislation process via regulations and directives. It will also study the EU's substantive law via the case law development of the four fundamental freedoms, namely the free movement of goods, capital, services and people. This course will be offered face-to-face, hybrid and online. Effective 08-2020

### **DERE7087 - Technology Transfer.**

*Two credits. One hour of lecture and one hour of discussion per week.*

Analysis and discussion of the basic concepts of technology and its importance in the legal and corporative world. Contractual relationships in reference to the several methods of technology transfer. Evaluation of the several forms and methods of technology transfer. Financial sources for technological innovation. The role of the lawyer in the process of technology transfer, at the national and international levels. The function of government as regulator and as facilitator of technological innovation. Study of the legal framework in reference to technology transfer. 08-16-99

### **DERE7095 - Restrictions On Property Rights And Some Urban Problems.**

*Two credits. Two hours of lecture per week.*

Analysis of selected legal and administrative aspects of the problems confronted by decision makers when implementing legislation that tends to limit accepted concepts of property rights, recent problems of control and use of land, planning techniques, and some urban problems. 10-10-94

### **DERE7101 - Legal Writing Workshop.**

*Two credits. One hour of lecture and one hour of discussion per week Prerequisites: FOR PROGRAM OF JD*

With emphasis on research projects for the final work of the masters' degree (II. M.) and seminar papers already completed, the workshop aims to guide the student in the preparation of a legal writing of publishable quality. The workshop is designed to use an investigation substantially completed by each



student as working basis and will be focus towards its development into a more extensive and complete document based on a properly reasoned argument. Particular emphasis will be placed on aspects such as the organization of writings, sketches, drafts and strategies for clear and persuasive writing. This course will be offered under the classroom, face-to-face, hybrid, distance and online modalities.

**DERE7102 - Beginning, Development and Conclusion of The Criminal Procedure In The Court Of First Instance.**

*Three credits. Three hours of lecture per week.*

The course addresses the theory and practice of the criminal judicial process in the courts of first instance Puerto Rico as a reference for the study of a criminal system based on oral procedures. The study of the procedural stages, the principles, norms and elements that govern the criminal process will show how the rights of the accused have been incorporated and the search for truth in the admission of evidence. The conflicts around the criminal process and the responses of the supreme court will be studied through the opinions of the court. This course will be offered under classroom and distance modalities. New description begins on August 2020.

**DERE7103 - Structure and Process of Anglo-American Law and Its Interaction with Civil.**

*Two credits. One hour of lecture and one hour of discussion per week.*

Two credits. One hour of lecture and one hour of discussion per week.

**DERE7105 - Author's Rights and Connected Rights.**

*Two credits. Two hours of discussion per week Prerequisites: DERE 7007 AND DERE 7016.*

Study and analysis of the author's subjective rights over those creations arising out of his intellectual endeavors and which have taken the form of literary, artistic and scientific productions. 21-01-97

**DERE7106 - Copyright Law.**

*Three credits. Three hours of lecture per week Prerequisites: DERE7007, DERE7016*

This course will cover the principal features of copyright law and the protection of moral rights in Puerto Rico, as well as some of its theoretical foundations. It examines what is copyrightable subject matter, requirements for copyright protection, ownership and transfer of rights, the scope of protection that copyright law affords to works of authorship, limiting principles, exceptions, and defenses to infringement, standards for judging infringement and remedies available in copyright lawsuits. Comparative copyright law and inter- national treaties affecting copyright law will also be given some attention.

**DERE7108 - Introduction to Intellectual Property.**

*Three credits. Three hours of lecture per week Prerequisites: DERE7007*

Survey course designed to familiarize the student with the basic concepts and doctrines for protecting intellectual property, including patent, trademark copyright right of publicity and trade secrets. This course is intended for students who desire a general exposure to intellectual property law. The course analyzes the costs related to the protection of intellectual property and how it affects other rights as free competition and freedom of expression. This course will be offered face-to-face, hybrid and online. Effective August 2020.

**DERE7109 - Patent Law.**

*Three credits. Three hours of lecture per week Prerequisites: DERE7007*

This course is designed for students without experience or previous knowledge of the patent system including those students without a technical back- ground. The course intends to equip students with a basic knowledge of the patent system of the United States of America. The course focuses on analyzing the theory and public policy of the patent system as well as to discuss the requisite of eligible subject matter, utility, novelty, non-obviousness and the disclosure requirement.

**DERE7115 - Public International Law.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Study of the historical evolution, basic concepts, institutions and structures, and principal processes of public international law. Its incorporation into the law of Puerto Rico and the United States. Its effects on legislation and case law of domestic law. This course will be offered face-to-face, hybrid and online. Effective August 2020. August 14, 2000.

**DERE7116 - Payment Systems.**

*Three credits. One hour of lecture and two hours of discussion per week Prerequisites: DERE 7016.*

Study of regulation of the means by which payments are made, including an examination of negotiable instruments, bank deposits and collections, funds transfers, letters of credit, warehouse receipts, bills of lading and other documents of title. The course studies the rights and liabilities of parties to promissory notes, checks, and other negotiable instruments, as well as regulation credit card use, electronic funds transfers, and other payment systems. This course will be offered face-to-face, hybrid and online. Effective August 2020. August 14, 2000.

**DERE7121 - Intersection Between Race, Gender and The Law in Puerto Rico.**

*Two credits. One hour of lecture and one hour of discussion per week.*

This course will study the intersection between race, gender, and law in Puerto Rico. The experience of black and afro-descendant women is very different in Puerto Rico due to the construction of racial and gender identities and the prevailing colorism in our society. By looking at these issues from a variety of different angles, focusing our attention on the legal understanding and conscience of black women, the course seeks to promote a deeper understanding of the complex interactions between law, race, and gender to formulate inter-disciplinary anti-racists proposals. The course will study laws, jurisprudence and interdisciplinary readings with narratives and first-person readings of history, anthropology and cultural criticism. This course will be offered under the face-to-face, hybrid or online modalities.

**DERE7122 - Seminar: Legal Aspects of Human Trafficking.**

*Two credits. One hour of lecture and one hour of discussion per week.*

The seminar delves into the identification of human trafficking through a holistic, socio-economic perspective and its repercussions in some judicial cases of this overlapping and unidentified phenomenon. This crime implies a control that tries, through fear, manipulation, coercion or deception, to reduce the forms of resistance and escape, through the weakening of wills (tip report, 2018). This slavery to which women and minors are subjected, is articulated with mercantile forms, where bodies are transformed into objects of merchandise of desire through exploitation and servitude (Palermo, 2000). Unfortunately, these cases are not identified in our courts due to a lack of information and adequate classification of this crime. Therefore, it is proposed to explore the different forms that this modern slavery assumes, deepen their causes and visualize this market in the international, regional and Puerto Rico context. Its causes, conditions, socioeconomic and legal implications will be part of the discussion. This course will be offered under the face-to-face, hybrid, distance and online modalities. New description begins on August 2020.

**DERE7123 - Seminar: Due Process of Law and Its Jurisprudential Development In The Accusatory System.**

*Two credits. One hour of lecture and one hour of discussion per week Prerequisites: JD PROGRAM. DERE 7018, DERE 7019. Corequisites: LLM ONLINE PROGRAMS. DERE 7019 OR VALIDATION OF PROCEDURAL COURSE IN FORERIGN UNIVERSITY.*

This seminar aims to confront students with the paradigm that represents the conceptualization, implementation and consolidation of the criminal justice system of accusatory court. The principles that

govern the model from the constitutional perspective and the jurisprudential doctrines developed in the United States and Puerto Rico will be studied. In addition, the emphasis of the course will be framed in the concept of due process of law as the central axis of the other constitutional guarantees, and from a perspective of theoretical and practical knowledge from the success of the reforms of the adversarial model in Latin America. On the other hand, it is also intended to address the standards of judicial review designed for the exercise of the appellate practice in the guarantor criminal system. This course will be offered face-to-face, hybrid, distance and online modalities.

#### **DERE7124 - Electronic Evidence.**

*Two credits. One hour of lecture and one hour of discussion per week Prerequisites: FOR JD PROGRAM AND DERE 7026. Corequisites: FOR LLM PROGRAM ONLINE. DERE 7026 OR VALIDATION OF THE PROCEDURAL COURSE AT A FOREIGN UNIVERSITY.*

Technology has impacted the way in which members of society communicate. For that reason, evidence is continuously created in electronic and digital devices without knowing the impact this evidence has on disputes that end up in court. This course studies the concept to electronic evidence, its impact on the presentation of evidence in the courts and the rules of evidence on authentication that allow its presentation and admission in court in plenary trials. Upon completing the course, the student will be able to identify the electronic evidence and apply the rules evidence on authentication for admission to the courts. This course will be offered under the classroom, hybrid, at distance and online modalities.

#### **DERE7125 - Opinions Writings.**

*Two credits. One hour of lecture and one hour of discussion per week Prerequisites: FOR PROGRAMJD. DERE 7017. COREQUISITES*

This course will analyze the process of drafting opinions and all its stages: the deliberative stage, the legal investigation, the process of interpretation of the legal norm and the precedent and its application, the legal argumentation, until reading and preparation of the final judgment brief. Students will analyze the opinions and its essential parts in the oral system and develop a model outline of the opinions in their jurisdiction, which meets all the essential requirements of opinions in the country, state or jurisdiction that applies. Participants will have the opportunity to go into the study of legal drafting, with emphasis on the wording of opinions. To do this, they will have the opportunity to reflect on the requirements of opinions in their jurisdiction, particularly as regards the duty to justify and motivate. This course will be offered under the face-to-face, hybrid, at distance and online modalities.

#### **DERE7126 - Theory, Doctrine and Litigation Practice.**

*3 credits. One hour of lecture and one hour of discussion per week Prerequisites: DERE 7026, FOR JD PROGRAM. Corequisites: DERE 7026, OR VALIDATION OF PROCEDURAL COURSE AT A FOREIGN UNIVERSITY.*

This is a course in which cognitive skills are developed in order of the student to "learn from experience". Both is direct examination and in cross-examination. In addition, the offer of evidence, the challenge and rehabilitation of witnesses, and oral argumentation are refreshed and perfected. This course is designed to help lawyers to link the theoretical aspect with the practical one. Although it is said that the function of "advocating" in the various forums entails an element of innate talent and art when exercised effectively, we firmly believe that as in the case of music, painting, sculpture and other arts, basic skills of litigation can be taught. It is up to the discretion, commitment, talent and ability of the lawyer-like the artist-to develop and practice them. This course will be offered distance and online modalities.

#### **DERE7127 – Law and Privacy.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

The course examines people's protection of their personal information. The course considers the network of diverse statutory, constitutional and judicial regimes. The problem of the flow of private information is

considered from the perspective of the people, the government and the legal entities that handled this information. The main objective of the course is that students can understand these legal and technological developments and prepare themselves to professionally face the wide range of issues that this field presents. This course will be offered under the face-to-face, hybrid and online modalities. New descriptions began on August 2021.

**DERE7201 - Direct Examination and Cross Examination.**

*Two credits. One hour of lecture and one hour of discussion per week Prerequisites: FOR THE JURIS DOCTOR PROGRAM, DERE 7026. Corequisites: FOR THE PROGRAM LLM*

In this course you learn to conduct direct and cross-examination interrogations that are effective and persuasive, through lectures, demonstrations, simulations and practical exercises. It will study and practice how to prepare for and how to conduct a direct interrogation and cross-examination. Different ways and techniques of questioning the witness with open questions on the direct examination, and how to anticipate and prepare the witness to face the cross-examination will be analyzed and practiced. Different strategies and techniques to control and interrogate a witness will also be analyzed and practiced through suggestive questions in the cross-examination and how to challenge the witness with previous statements. This course will be offered under the classroom, hybrid, at distance and online modalities. New description begins on August 2020.

**DERE7205 - Comparative Constitutional Law.**

*Two credits. Seven hours of lecture per week.*

A comparative analysis of the American and European constitutional organization taking the notion of separation of powers as the focal point. 10-10-94

**DERE7206 - Forensic Litigation: Basic Criminal Litigation Skills.**

*Two credits. One hour of lecture and one hour of discussion per week Prerequisites: JD PROGRAM.*

*Corequisites: LLM ONLINE PROGRAM. DERE 7019, OR VALIDATION OF PROCEDURAL COURSE IN FOREIGN UNIVERSITY.*

The course is aimed at developing and strengthening basic litigation skills in the criminal area. A balance will be established between the theoretical discussion of the rules of evidence applicable to the litigation process and the practical aspects of the development of skills. The issues be analyzed from the perspective of the litigant and from the perspective of the adjudication. The aspects of evidentiary law and those of criminal procedure will be based both in the legal system of Puerto Rico and in the jurisprudence of the supreme court of the United States of America as a frame of reference for the analysis of the course topics. The course may include procedural aspects of other jurisdictions as necessary. This course will be offered face-to-face, hybrid, at distance and online modalities.

**DERE7207 - Developments of The European Contract Law.**

*2 credits. Seven hours of lecture per week.*

An introduction to the origins of the civil law system, its sources and institutions, method of statutory interpretation, and deductive reasoning focusing on the most relevant features of modern European contract law. A general perspective of the law tradition, which prevails currently in the majority of the countries of modern Europe and Latin America.

**DERE7208 - Litigation of Gender Violence Cases: Civil And Penal Remedies.**

*Two credits. One hour of lecture and one hour discussion per week Prerequisites: FOR THE JD PROGRAMS.*

*DERE 7015, DERE 7008 AND DERE 7068, OR VALIDATION OF EQUIVALENT. Corequisites: FOR ONLINE LLM PROGRAM. DERE 7026, OR VALIDATION OF PROCEDURAL COURSE AT A FOREIGN UNIVERSITY.*

This course will look into the social and legal aspects of gender violence and strengthen the development of

litigation skills that start from the understanding of the problem and the ethical dilemmas that could be involved. Legislation approved to address the social problem and the context of its development will be studied: law no. 54 of August 15, 1989, law for the prevention and intervention with domestic violence and the jurisprudence that has interpreted it. The law will be analyzed from its civil and criminal dimensions, its application and interpretation. Innovative strategies that have distanced themselves from the traditional responses of the judicial system to address this serious social problem will be studied. Simulated litigation hearings of different classroom, hybrid, at distance and online modalities.

**DERE7209 - Immigration Law.**

*Two credits. Two hours of lecture per week*

Study of the law, policies and procedures related to the immigration processes to the United States including the exclusion and deportation rules. 10-10-94

**DERE7210 - Seminar Human Rights and Criminal Procedure.**

*Two credits. One hour of lecture and one hour of discussion per week Prerequisites: FOR PROGRAM JD*

This seminar is intended to provide a comprehensive view of international human rights standards applicable to criminal proceedings. Likewise, the control mechanisms of the international treaties available to claim such rights and their effectiveness will be studied. Cases will be analyzed at the international and national level to assess compliance with international obligations regarding criminal proceedings. This course will be offered under the classroom, hybrid, at distance and online modalities.

**DERE7211 - Theory of Adjudication.**

*2 credits. One hour of lecture and two hours of discussion per week Prerequisites: FOR PROGRAMS JD*

*Corequisites: FOR PROGRAMS LLM ONLINE*

The first part of the course will examine a selection of the main western works on jurisprudence and the judicial function. The second part of the course will discuss the theoretical issues discussed in the first part as present in Puerto Rican case law. This course will be offered under face-to-face, hybrid and online modalities.

**DERE7215 - European Human Rights Laws.**

*Two credits. Seven hours of lecture per week.*

An examination of the state of human rights protection in Europe, through the analysis of the existing legislation and courts decisions on the subject. 10-10-94

**DERE7217 - Institutions of The European Union.**

*Two credits. Seven hours of lecture per week.*

An introduction to the institutional structure of the European Community and its foreign and economic policies. An overview of the functioning of the European union with an emphasis on its institutions, its legislative and judicial processes and the relationship of the union law and the law of the member states. 10-10-94

**DERE7219 - Administrative Comparative Law.**

*Two credits. Seven hours of lecture per week*

Study of the administrative law, policies and procedures used in different jurisdictions. 10-10-94

**DERE7227 - Business Organizations in Europe.**

*Two credits. Seven hours of lecture per week*

Study of the community law about partnerships with special interest in the stock company partnership existing in Europe. Analysis of the aspects pending of legal regulation. Examination of the different types of regulated companies for the main specific areas. 10-10-94

**DERE7235 - International Protection of The Environment.**

*Two credits. Seven hours of lecture per week.*

Analysis of the efforts made to protect the environment in the supra-national sphere. Special attention will be placed on international agreements and legal problems and controversies arising from these agreements. 10-10-94

**DERE7295 - The Practice of Law in Europe.**

*One credits. Three hours of discussion and thirty-five hours of workshop per week.*

One-week clerking internship experience through placement in some of the most outstanding and prestigious law firms in Europe. Placement will be arranged by the director on the basis of interest shown and time of application. 10-10-94

**DERE7296 - Judicial and Administrative Agencies Internship.**

*3 credits. 10 hours of field work for four weeks Prerequisites: 31*

The judicial and administrative agencies externship introduces students to the tasks performed by law clerks and to the handling of litigation by the tribunal de primera instancias, the tribunal de apelaciones, the federal district court for the district of Puerto Rico, and administrative agencies. Students will work with a judge or legal division, draft legal memoranda, orders and judgments and, depending on the court, they will observe trials, oral arguments and procedural hearings. The externship requires a commitment of 120 hours of practice during the semester and participate in five classroom meetings to discuss topics such as effective courtroom lawyering and writing judicial opinions. Students must have an academic point average of 3.0 or more at the time they apply for the course. The applications must be received by the program coordinator the semester prior to the externship and, if the student is accepted, the student will be permitted to pre-register the course.

**DERE7297 - Advanced Judicial and Government Externship.**

*Three credits. Two hours of practice and one of workshop per week Prerequisites: 22*

Students with a previous experience through one of the externship courses offered at the law school will be able to engage in a more sophisticated externship experience while developing skills necessary for the practice of law this subsequent experience will include activities such as judicial clerkships, both federal and local, and internships at administrative agencies-including legal research and memoranda, opinion drafts, among others. Students should not repeat practice centers from previous experience but will be allowed to repeat a center if her or his supervisor has requested it and also certifies that the subsequent experience will include more complex and advanced tasks. Students should have 3.0 GPA. The course will be graded and is not available for students that have taken both dere7995 and dere7296 but having taken one of these courses is a prerequisite.

**DERE7301 - Business Law Journal I.**

*One credits. One hour of research per week Prerequisites: 31*

Training and practice in the drafting and editing of law review notes and law review article sub-citing.

**DERE7302 - Business Law Journal II.**

*One credits.*

Training and practice in the drafting o law review notes and law review article sub-citing. Part two.

**DERE7308 - Law Internet and New Technologies.**

*2 credits. One hour of discussion per week*

Studies the basic legal problems arising after the emergence of networked digital technologies such as the

internet. Examines jurisdictional considerations, the use of electronic signatures and contracts, violation of various intellectual property rights online, the definition of crimes in the digital environment, the protection of the right to privacy and the right to freedom of expression, among others. It addresses public policy and theoretical debates around the relationship between law and emerging technologies.

**DERE7309 - Media Law.**

*Three credits. Two hours of the discussion per week.*

Study and analysis of mass media law. The principal subjects to be studied include the following: freedom of expression and of the press and the limits on government regulation; legal problems arising from communications, particularly defamation and protection of privacy; problems in news gathering, gathering, especially, reporter's privilege and access to information. This course includes sections of variable format: in classroom, face-to-face, hybrid and online modalities. Effective August 2020. 16-01-02

**DERE7395 - Lawyers Social Responsibility.**

*One credits. Sixteen hours of lecture.*

Through the analysis of twelve case studies, the course will look at lawyers social responsibility in a diversity of professional roles. 10-10-94

**DERE7488 - Law Review Editorial Board.**

*Two credits. Two hours of lecture per week Prerequisites: DERE7588*

Training and practice in writing monographs and bibliographical notes. Establishment and execution of editorial policy for the university of Puerto Rico law review.

**DERE7495 - Directions in Labor Law.**

*One credits. Sixteen hours of lecture.*

Critical analysis of labor law schemes in contemporary societies and prevalent trends in their development. 10-10-94

**DERE7505 - Legal Medicine.**

*Three credits.*

Survey of the present state of medical science and the scientific method of medicine. Analysis of trauma, emphasizing its possible legal consequences. Preparation of the medical aspects of a case, including expert testimony. Government regulation of medicine. Medical aid programs. Malpractice and civil rights problems in this area. 10-10-94

**DERE7506 - Criminal Law and Psychiatry.**

*Three credits.*

A study of communication in criminal law between the language of lawyers and that of psychiatrists. A series of lectures on the dynamics of human behavior, both normal and pathological. A presentation of the developmental stages of the human being, with emphasis on experience that might lead to mental illness affecting social behavior. Discussion will then focus on the lessons to be derived from the psychiatrist's insight thus gained that might be useful in the reformation of operational legal concepts and attitudes. 10-10-94

**DERE7507 - Criminology.**

*Three credits.*

Three credits.

**DERE7508 - Secured Transactions.**

*4 credits. Prerequisites: DERE 7016.*

The study of secured transactions: security interest, sales of accounts and chattel paper and consignment. The course examines secured transactions, attachment, perfection, foreclosure, and the rights, responsibilities, and remedies available to debtors and creditors. The rules related to priority conflicts are studied. An evaluation of the effectiveness of regulation and the possibilities of harmonization with other pertinent legal provisions.

### **DERE7509 - Antitrust Legislation.**

*Three credits.*

A study of federal anti-trust statutes and trade regulations policies and those of the commonwealth of Puerto Rico, including problems of unfair trade practice policy. 10-10-94

### **DERE7515 - Admiralty.**

*Two credits.*

Federal and commonwealth admiralty jurisdiction (physical and procedural limits). Maritime liens, claims of seamen and persons assimilated to them. Collision claims, limitation of liability of owners. Selected special topics (carriage of goods; charter of vessels; salvage; marine insurance and other specialized topics). 10-10-94

### **DERE7516 - Insurance.**

*Three credits. Three hours of lecture per week.*

The theory of insurance with particular emphasis on the problems of Puerto Rico. The Puerto Rican insurance law will be studied as well as the Puerto Rican and United States jurisprudence in the field of insurance. This course will be offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

### **DERE7517 - Trusts.**

*Two credits.*

Study of Anglo-American trust and its possibilities in civil law jurisdictions. 10-10-94

### **DERE7518 - Taxation.**

*Four credits.*

General principles of taxation. Jurisdiction and limitations under the federal, state, and insular systems. Substantive and procedural aspects of property, inheritance and income tax laws and excises in Puerto Rico. This course will be offered face-to-face, hybrid and online. Effective for August 2020. 10-10-94

### **DERE7519 - Accounting and The Law.**

*Two credits. Two hours of lecture per week.*

Sources, nature and presentation of financial data. Interpretation of accounting forms with special reference to the legal profession. The general principles of accounting are introduced as a general background for the proper interpretation of the course. 10-10-94

### **DERE7520 - Corporate and Partnerships Taxation.**

*Three credits. One and half hour of lecture and one and a half hour of discussion per week Prerequisites: DERE 7518*

Study of the principal aspects of the taxation of corporations and partnerships and their stockholders and partners in Puerto Rico. The various aspects are covered through a casebook, supplemented with the Puerto Rico internal revenue code, judicial decisions and practical problems. 20-01-99

### **DERE7525 - Bankruptcy.**



*Two credits.*

A study of bankruptcy, particularly, applications of the federal law as it arises in bankruptcy situations in Puerto Rico. 10-10-94

**DERE7526 - Legislative Process.**

*Three credits.*

Comparative institutional study of the United States congress and the legislative assembly of the commonwealth of Puerto Rico. An exhaustive analysis of the structure, composition and functions of various organs of the legislative branch. Modern techniques and methods of legislation. Drafting legislation projects about legislative problems in Puerto Rico. 10-10-94

**DERE7527 - Social Legislation.**

*Three credits. Three lectures per week.*

The study of specific areas of social legislation in Puerto Rico and the United States. Includes an analysis of the special social legislation dealing with dismissal, maternity leave, closing hours, and special legal remedies dealing with social legislation. 10-10-94

**DERE7528 - Judicial Administration.**

*Three credits.*

Administrative aspects of the judicial branch in Puerto Rico including planning, budget, personnel problems, organization and methods in view of the methodology and functional concepts of public administration. 10-10-94

**DERE7529 - Labor Arbitration.**

*Two credits.*

Legal principles applicable to labor controversies in Puerto Rico. Analysis of federal and local legislation. Federal and local judicial interpretation of labor legislation. Drafting arbitration clauses. Preparation and solution of controversies at the arbitration level. 10-10-94

**DERE7530 - Bankruptcy.**

*Three credits. One and a half hour of lecture and one and a half hour of discussion per week Prerequisites: DERE 7016*

Study of the basic principles contained in the federal bankruptcy code and its applications to business and individuals in Puerto Rico. The course will examine the jurisdictional aspects, the credits and debtor rights, the settlement under chapter 7, and the commercial and individual reorganization under chapters 11, 12 and 13. Study and analysis of the diverse process of the bankruptcy case, including the beginning of the voluntary and involuntary case, the cashing of the automatic suspension, the use and alienation of the caudal property, the assumption or rejection of contracts, the annulment of the caudal property transference, the exempt of the property and other subjects of our community interest. 20-01-99

**DERE7535 - Labor Law.**

*Four credits.*

Study of the historical development of the discipline as a means of understanding its present problems. Comparative analysis of the transactions of the national labor relations act and labor relations act of Puerto Rico. Special attention is given to problems related to collective bargaining, representation and labor and management activities in labor disputes. Collective bargaining, statutory and contractual mechanisms to solve employer-employee conflicts and the relationship of unions to their members. 10-10-94

**DERE7537 - Extraordinary Remedies.**

*Two credits.*

Study of the origin, functioning, and judicial interpretation of the writs of habeas corpus, mandamus, quo warrants, certiorari, injunction, prohibition and inhibition. 10-10-94

**DERE7538 - Sociology of Law.**

*Two credits.*

A study of law as an instrument of social control, and of society as the ultimate source of law. Legal systems are analyzed to establish that which is distinctively legal and to examine some of the reciprocal interrelationships of law and society. The course includes sociological research of specific socio-legal problems within the Puerto Rican community, aimed at obtaining a practical and concrete understanding of the impact of law upon a community and of the effect of social realities upon law. 10-10-94

**DERE7539 - Research in Natural Resources.**

*Three credits. Three hours of lecture per week.*

The study of the problems of natural resources; the existing administration and legal structure, and the conservation and use planning of these resources, the adequacy of these mechanisms, and recent legal tendencies in this field. This course will be offered face-to-face, hybrid and online. Effective August 2020. 10-10-94

**DERE7540 - International Environmental Law.**

*Three credits. Three hours of discussion and lecture per week.*

Exploration, from an international perspective, of the emerging environmental and natural resource law, such as: the application of international and environmental law to the protection of the air and atmosphere, biodiversity, territorial and wildlife resources, marine and fresh waters, and the growing human population. Examination of diverse legal doctrines, including interpretation of international treaties, and the implementation of recent laws and agreements affecting efforts to manage, preserve, restore and protect the environment. This course will be offered face-to-face, hybrid and online. Effective August 2020.

**DERE7545 - History of Puerto Rican Law.**

*Three credits. Three hours of lecture per week.*

The beginnings of Puerto Rican law as back as Indian law structure, judicial institutions and the constitutional development in Puerto Rico during the nineteenth century, constitutional changes embodied in the Puerto Rican autonomic constitution of 1897, and the administration of justice and law during the military government phase between 1898-1900, ending with a detailed study of the historical origins for the provisional court of the United States in Puerto Rico. This course will be offered face-to-face, hybrid and online. Effective for August 2020. 10-10-94

**DERE7546 - Special Contracts.**

*Three credits.*

Specialty in contracts. Precontracts, options and promises. Contracts of sales and barter. Leases, loans. Contracts of mandate and deposit. Aleatory and marriage contracts. Arbitration agreements. Unjust enrichment. 10-10-94

**DERE7547 - International Private Law.**

*Three credits.*

Conflict of legal doctrines. The selection of the law to be applied in cases which involve more than one legal system. Puerto Rican doctrines. Conflicts in jurisdiction, competence, marriage and divorce law, tutorships, property law, estates, contracts, statutes of limitation, enforcing foreign judgments, torts, etc. 10-10-94

**DERE7548 - History Of Civil Law.**

*Three credits.*

A study of the systems of law which originate in roman law and from which the Puerto Rican legal system is devised. Spanish and Puerto Rican historical development. Contact with the common law and its consequences. Its future development in view of Puerto Rican practice. 10-10-94

**DERE7550 - International Trade: From Gatt to Wto.**

*One credits. Seven hours of discussion per week.*

An introduction to the evolution of the world trade legal framework. A look at the Gatt to historical backgrounds. A comparison of the two commitments with the regional agreements (eu, nafta, mercosur), the dispute resolution mechanisms and the impact of all these institutions in the domestic spheres. 07-07-97

**DERE7556 - Notarial Law.**

*3 credits. Prerequisites: 31*

This introductory course on notary law includes not only the theoretical foundations of this branch of law, but also the way in which such matter is regulated in the current legal system. The role of the notary as a legal professional will be studied. The requirements and characteristics of all notarial documents will be studied, with special emphasis on the public instrument, both from its theoretical perspective and the way in which it should be prepared, without going into the details of the legal business of each instrument. The professional ethics of the lawyer will be studied from the perspective of the notary. This course will be offered under face-to-face, hybrid and online modalities.

**DERE7557 - International Organizations.**

*Two credits.*

Study and analysis of the structure and process of decision-making of the more important international organizations in relation to their political functions. The role of law in everyday international practice and alternative ways of solving international problems. Special consideration is given to problems such as collective security, regional treaties and organizations, armament regulations, economic and social cooperation, and the development of international law. 10-10-94

**DERE7558 - Notarial Practice.**

*3 credits. Three hours of lecture per week Prerequisites: 31*

This course studies the notarial form of public instruments and testimonies and their content in civil contracts. The course covers non-contentious matters before a notary where they will be analyzed and drafted. The main businesses and contracts of a civil nature will be discussed, with special emphasis on the notarial form and the notarial obligations that arise from them. Each student will form and bind their protocol in accordance with the notarial law and its regulations. In the course, problems of a civil nature that a notary may face in the exercise of the profession will be discussed and analyzed, and such problems will serve as a tool for the learning process of business and civil contracts, deepening the knowledge acquired in an introductory way in the course of notarial law. This course will be offered under face-to-face, hybrid and online modalities.

**DERE7559 - Urbanism and Planning.**

*Three credits. Three hours of lecture per week Prerequisites: NONE*

Property rights and the problems of development. Special legislation to regulate development alternative techniques and methods to achieve economic and social objectives through planning legislation and regulation. 10-10-94

**DERE7560 - Tax Aspects of Notary Practice.**

*Two credits. 30 hours of lecture per week Prerequisites: DERE 7556.*

The course provides an introduction to the tax events that affect notarial practice. The tax doctrine applicable to a legal business is studied with the aim of advising grantors, drafting clauses, expressly consigning warnings in public instruments and disclosing transaction data to tax agencies, as required by tax regulations. In particular, the provisions of the internal revenue code of Puerto Rico, the federal internal revenue code, the municipal code of Puerto Rico, laws to stimulate the real estate market, among other primary sources, for legal transactions transferring ownership are identified, and others common in Puerto Rico. The jurisprudence of the supreme court of Puerto Rico on the notary's duty to inform in the real estate tax and registry context is discussed. This course will be offered face-to-face, hybrid and online modalities.

### **DERE7566 - Law and Poverty.**

*Three credits.*

Analysis of the most important problems faced by the poor which have or could have a remedy at law, as a basis for the discussion of the causes which impede the access of the poor to legal action. As consumers, tenants, and citizens, and as the beneficiaries of social and welfare legislation, the poor face problems which have legal solutions, but which at present, are not solved through legal processes. A study will be made of present-day economic and social structures as the background of legislation in this field to seek more effective measures. 10-10-94

### **DERE7568 - Roman Law.**

*Three credits.*

Study of the historical evolution of the roman legal institutions. Sources (ius, fas, boni mores). Ius civile y ius praetorium; ius gentium. Synopsis of the roman procedure in iure y apud iudicem. Analysis of some institution such as: persons, (Capacities; sex, marriage), property, (domain, possession and other property rights), contracts. Scheme of the law of estates. The Justinian roman law: the system concept. 10-10-94

### **DERE7569 - Comparative Law.**

*Three credits.*

A comparison of methods, laws and legal systems. Comparison and universalization of law. Puerto Rico's special interest in comparative law, and comparative law of Puerto Rico's special situation. Comparison of legal institutions. Attention will be given to the similarities of infrastructural schemata. 10-10-94

### **DERE7570 - Therapeutic Jurisprudence.**

*Three credits. Three hours of discussion per week.*

Survey of the principal tenets of therapeutic jurisprudence, a perspective that looks at the law itself (substantive rules, legal procedures, and the roles of lawyers and judges) as a potential therapeutic agent. Study of the impact of the law on emotional life and on psychological well-being. Law reform measures are discussed, as well as how lawyers, judges, and others may apply the existing law more therapeutically. This course will be offered face-to-face, hybrid and online. Effective August 2020. 12-08-97

### **DERE7575 - Moot Court.**

*2 credits.*

Students prepare and present before court specific cases individually assigned to them. (the course can be repeated for up to 10 credits. A maximum of 10 credits in this course can be repeated towards the 46 elective credits required for the juris doctor. No student is allowed to repeat the course if it has the same sub-topic, unless it is accordance with the university's policies). Theme: the depositions. P. H. Online. Theme: criminal litigation before trial (suppression of confession and identification). P. H. Online.

### **DERE7576 - Law Review I.**

*Zero credits.*

Work on the law review. 10-10-94

**DERE7577 - Law Review II.**

*Zero credits.*

Work on the law review. 10-10-94

**DERE7578 - Puerto Rican Constitutional Law History.**

*Three credits. Three hours of lecture per week.*

An historical and legal study of the constitutional development of Puerto Rico from 1812 to 1975. 10-10-94

**DERE7579 - Moot Court.**

*Two credits.*

A continuation of law 7575. 10-10-94

**DERE7580 - Comparative Constitutional Law: The Anglo-Caribbean Community States.**

*One credits. Fourteen hours of lecture per semester Prerequisites: LAW 7018.*

Study in a comparative approach a number of constitutional law areas within the Caribbean community states. 10-10-94

**DERE7585 - Legal Ethics and Professional Responsibility.**

*Three credits. Three hours of lecture per week Prerequisites: FOR SECOND OR THIRD YEAR LAW STUDENTS.*

The course intends to explore, using methods from the science of psychology, the attitudes and problems that the conflicts inherent to the practice of law bring about. Face-to-face, hybrid and online modalities. 10-10-94

**DERE7587 - Seminar: Advanced Legal Research.**

*Two credits. Six hours of laboratory work weekly.*

A study of advanced legal research techniques and methodology. Under the supervision of a research director, students will act as assistant instructors for the course law 7009 while studying more complex problems in the recovery of legal data. 10-10-94

**DERE7588 - Law Review I.**

*One credits.*

Work on the law review. 10-10-94

**DERE7589 - Law Review II.**

*One credits.*

Work on the law review. 10-10-94

**DERE7590 - Seminar: Topics in Corporations and Partnership.**

*2 credits. Two hours of seminar per week.*

Study of complex topics in the law of corporations: a) corporate finance; b) organization of corporations; c) responsibility to shareholders and directors d) mergers, reorganizations and dissolutions; e) comparative corporate law; f) business planning; g) corporation law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times when topics vary.

**DERE7591 - Seminar on The Bicentennial of The United States Constitution I.**

*Four credits. Two hours of workshop per week Prerequisites: LAW 7018.*

A seminar on perspectives on the bicentennial of the United States constitution. It will consist of a number of workshops directed toward a rigorous analysis of the origin and development of the United States constitution and major constitutional doctrines. The study of the impact of this important document on Puerto Rican constitutionalism and in the western world will be promoted. Distinguished jurists together with Puerto Rican professors, justices and judges will participate in the workshops. This is a means of placing this important political document -the United States constitution- in its true perspective on its bicentennial. 10-10-94

### **DERE7592 - Seminar: The Bicentennial of The United States Constitution II.**

*Four credits. Two hours of workshop per week Prerequisites: LAW 7018.*

A seminar on perspectives on the bicentennial of the United States constitution. It will consist of a number of workshops directed toward the rigorous analysis of the origin and development of the unites states constitution and major constitutional doctrines. The study of the impact of this important document on Puerto Rican constitutionalism and in the western world will be promoted. Distinguished jurists together with Puerto Rican professors, justices and judges will participate in the workshops. This is a means of placing this important political document- the United States constitution- in its true perspective on its bicentennial. 10-10-94

### **DERE7595 - Sports Law.**

*Three credits. Three hours of lecture per week.*

The study of sports regulation in Puerto Rico and the United States including the rights and limitations of every participant in sports activities. 10-10-94

### **DERE7597 - Seminar: Topics of Administrative Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in administrative law: a) rights and procedures related to particular administrative agencies; b) the exercise of the faculties of administrative agencies and their review; c) problems of immigration; d) the regulation of the institutions, processes, and products of the private sector; e) law, planning and urbanism; f) comparative administrative law; g) problems related to administrative law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times when topics vary. August 14, 2000.

### **DERE7600 - Seminar: Topics in Criminal Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in criminal law: a) the general part of criminal law; b) specific crimes; c) different penal systems in different legislation; d) administration of criminal law; e) comparative criminal law; f) criminal law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

### **DERE7602 - Seminar: Comparative Criminal Law-special Part.**

*Two credits.*

An analysis of the constituent elements of the several types of criminal conduct (crimes against the person, against property, and against public morality), and the special problems of the active and passive subject. The dee. Illegality and guilt. After an analysis has been made of the formula defining each crime, an examination will be made from the historic, casuistic, doctrinal, and comparative point of view. Special attention will be given to the model penal code of the American law institute. 10-10-94

**DERE7605 - Seminar: Problems in The Administration of Criminal Law.**

*Two credits.*

An analysis of selected problems in the administration of criminal law. 10-10-94

**DERE7606 - Seminar: Criminal Procedure.**

*Two credits.*

The study of specific problems in the field of criminal procedure. Particular emphasis given to the rights of suspects and of the accused. 10-10-94

**DERE7608 - Seminar: Problems in Modern Penal Codification.**

*Two credits. Two hours of lecture weekly.*

A detailed study of the concepts of modern penal codification. Importance of the socio-economic background and the needs of the community. 10-10-94

**DERE7610 - Regulation of Depository Institutions.**

*Three credits. Three hours of lecture per week Prerequisites: DERE 7027, DERE 7036.*

Survey of the federal and Puerto Rico laws and regulations governing depository institutions. Study of the categories of depository institutions, its regulators and the rules governing its organization and traditional banking activities. Analysis of legislative and administrative proposals to authorize non-traditional banking activities and to recognize new categories of depository institutions. 20-01-98

**DERE7615 - Seminar: Tax Problems.**

*Two credits.*

Discussion and analysis of the tax conflicts pertaining to the organization, reorganization, operations, and dissolution of commercial enterprises and activities. Among the aspects studied are the various problems related to the incorporation of a business enterprise and to the fusion of two medium-sized enterprises. 10-10-94

**DERE7616 - Seminar: Commercial Planning.**

*Two credits. Prerequisites: LAW 7036 AND 7518.*

A study of the tax-corporate problems presents in the incorporation, reorganization, operation and dissolution of a corporate entity. The course progresses from the simple problem of incorporating a sole proprietorship to the more complex problems attendant upon a corporate merger. 10-10-94

**DERE7620 - Seminar: Topics in Bankruptcy Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in bankruptcy law: a) rights of creditors and debtors in general; b) business reorganization under chapter xi of the bankruptcy law; c) individual rehabilitation under chapter xiii of the bankruptcy law; d) planning bankruptcy, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7630 - Seminar: Topics in Commercial Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in commercial law: a) commercial contracts; b) commercial financing; c) international commercial relations; d) insurance in general; e) property and casualty insurance; f) life insurance; g) negotiable instruments; h) comparative commercial law; i) regulation of financial markets; j) commercial law in general, among other topics. The specific subject of the seminar will be announced prior

to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topic vary. This course will be offered face-to-face, hybrid and online. Effective August 2020. August 14, 2000.

**DERE7636 - Seminar: Civil Law.**

*Two credits.*

Discussion of selected topics of both theoretical and practical interest in the field of civil law. Special attention is given to recent insular statutes and new doctrines developed by the supreme court of Puerto Rico which are not covered in the general courses of civil law. 10-10-94

**DERE7640 - Seminar: Topics of History of Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in the history of law: a) history of Roman-Germanic law; b) history of constitutional law; c) history of law in common law jurisdictions; d) general themes of history of law, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7647 - Seminar: Problems in International Public Law.**

*Two credits.*

Specialized problems in the field of international public law especially concerning treaties between international organizations, economic and social cooperation and collective security. 10-10-94

**DERE7655 - Seminar: Research in The Legal Profession.**

*Two credits.*

A study of the problems facing the legal profession, utilizing whenever possible the methodology of empirical research. 10-10-94

**DERE7667 - Seminar: Topics in Legal Theory.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in legal theory: a) the philosophical-juridical work of specific authors; b) specific movements of schools or legal thought; c) theories on particular aspects of the legal system; d) legal process; e) law and literature; f) ethics, moral and justice, and the legal profession; g) law and social theory; h) feminist theory; i) legal theory in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7668 - Structure and Process of Anglo-American Law and Its Interaction with Civil Law.**

*Four credits. Two hours of lecture, one hour of discussion, and one hour of colloquy per week Prerequisites: BE A STUDENT OF THE MASTER IN LAW PROGRAM.*

Analysis of the principal institutions, structures and processes of Anglo-American law. Its interaction with civil law. Discussion of the convergence tendencies of both traditions in the development of the institutions of economic and political integration. 08-16-99

**DERE7669 - Course of Law and Literature.**

*Three credits. Three hours of lecture per week.*

Study of the relationship between law and literature. Examination of the various aspects of the legal life as it is viewed by poets, dramatists, novelists and essayists. The literary view of the law. Opportunity for the student of law and lawyer to understand and study human nature as it is viewed by the literary world, aimed



at helping to make judgments of the values inherent to the legal profession. 10-10-94

**DERE7670 - The Role of The United States Supreme Court And The Constitutional Court Of Spain: A Comparative Analysis.**

*One credits. Seven hours of discussion per week.*

A comparative overview of the work and organization of the supreme court of the United States and the constitutional court of Spain: the role of the court, the doctrine of precedents in constitutional adjudication, and the process of case selection.

**DERE7675 - Religious Convictions and Law Making.**

*One credits. Twelve hours of lecture per week Prerequisites: LAW 7018.*

A study of the processes describing the relationship between religious convictions and law making in our societies both from a strict juridical standpoint as well as from a sociological perspective. 10-10-94

**DERE7676 - Seminar: Topics in Environmental Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in environmental law: a) special legislation in environmental protection; b) environmental protection and economic development; c) methods, processes and remedies (substantive and procedural) for the protection of natural resources, ecology and the environment; d) comparative environmental law; e) international environmental law; f) environmental law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. This course is offered face-to-face, hybrid and online. Effective August 2020. August 14, 2000.

**DERE7677 - The Charter of The United Nations.**

*One credits. Twelve hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

The progressive development of the principles contained in the charter of the United Nations as well as the operation particularly in the area of human rights, dispute resolution and self-determination. 10-10-94

**DERE7678 - Seminar: Topics in Civil Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in civil law: a) the person and the family; b) problems and rights of minors; c) domestic violence and other contemporary problems; d) the right to property; e) the law of contracts and obligations; f) will and estates; g) tort law; h) private international law; i) the first section of the civil code; j) comparative civil law; k) registration law; l) intellectual property; m) civil law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14,2000.

**DERE7679 – Workshop on Handicapped Representation.**

*Two credits. Three hours of lecture per week Prerequisites: LAW 7018.*

Study and practice of litigation for the handicapped. 10-10-94

**DERE7680 - Seminar: Topics in Constitutional Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in constitutional law: a) the organization of powers of the state; b) freedom of expression; c) the church state relation- ship and religious freedom; d) the constitutional relationship between Puerto Rico and the United States; e) due process of law; f) freedom of press; g) equal protection of the law; h) constitutional theory; i) institutions and processes of the legislative branch; j) comparative

constitutional law; k) federalism and constitutional structure; l) special civil rights and individual liberties legislation; m) problems of constitutional law litigation; n) constitutional processes, experiences, problems and solution; o) constitutional law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 crs) when topics vary. August 14, 2000.

**DERE7685 - Contemporary Issues in Freedom of Speech.**

*One credits. Fifteen hours of lecture per week Prerequisites: LAW 7018.*

Analysis of several areas of the current controversies in freedom of speech. 10-10-94

**DERE7686 - Seminar: Topics of International Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in international law: a) customary and contractual rights between states; b) economic international transactions; c) international protection of human rights; d) rights between states and peoples of the Caribbean; e) economic and political communities; f) about the fundamental concepts of international law; g) international law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. This course will be offered face-to-face, hybrid and online. Effective August 2020. August 14, 2000.

**DERE7687 - Seminar: Topics on The Law of Evidence.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in the law of evidence: a) hearsay; b) privileges; c) testimonial and documentary proof; d) scientific proof; e) expert witness testimony; f) comparative law of evidence; g) law of evidence in general, among other. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7688 - Seminar: Topics in Criminal Procedure.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in criminal procedure: a) constitutional protection in criminal procedure; b) criminal procedure under Puerto Rican rules; c) criminal procedure under federal rules; d) execution of the penalties and rights of prisoners; e) comparative criminal procedure; f) criminal procedure in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7689 - Seminar: Topics in Tax Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in tax law: a) taxation of individual income; b) taxation of corporations and shareholders; c) taxation of estates and gifts; d) fiscal policy; e) comparative tax law; f) tax law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7690 - Seminar: Topics in Advanced Legal Research.**

*Two credits. Two hours of seminar per week.*

Study and in-depth research of complex topics in law: a) research on the legal profession; b) empirical legal research; c) research on professional conduct regulation; d) research on comparative legal systems; e)

research or world legal orders or traditions; f) advanced legal research in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7695 - Seminar: Topics in Consumer Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in consumer law: a) substantive and procedural protection of consumers of goods and services of private enterprise; b) price regulation, resource distribution and availability of credit; c) special legislation on consumer protection; d) consumer rights in general, among others. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7696 - Seminar: Topics in Labor Law.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in labor law: a) the organization of labor unions; b) collective bargaining; c) protection for the non-union laborer; d) unemployment; e) labor legislation and public policy; i) labor law in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7697 - Seminar: Topics in Civil Procedure.**

*Two credits. Two hours of seminar per week.*

Study of complex topics in civil procedure: a) procedures related to litigation in the lower courts; b) appeals; c) judicial administration; d) alternative dispute resolution methods; e) comparative civil procedure; f) civil procedure in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7698 - Seminar: Topics in Law And Society.**

*Two credits. Two hours of seminar per week.*

Study of topics in law and society: a) law and poverty; b) social security programs and the rights of the beneficiaries; c) housing; d) health law; e) law and mental health; f) law and social change; g) the aging and the law; h) law and education; i) law and technology; j) law and society in general, among other topics. The specific subject of the seminar will be announced prior to the semester in which it will be offered. The seminar will require the writing of a long paper. May be taken up to four times (8 credits) when topics vary. August 14, 2000.

**DERE7709 - Special Topics in Private Law V.**

*One credits. Fifteen hours of lecture per week.*

Analysis of several areas of special and current interest in private law. 10-10-94

**DERE7719 - Special Topics in Public Law V.**

*One credits. Fifteen hours of conference per week.*

Analysis of several areas of special and current interest in public law. 10-10-94

**DERE7730 - Alternative Dispute Resolution.**

*Two credits. Two hours of lecture per week.*

Study of modern tendencies to develop and adopt alternative methods to resolve disputes other than the

judicial trial, commonly called "ADR" (alternative dispute resolution). Methods such as arbitration and mediation in the areas of labor, commerce, international relations and family disputes, negotiation, settlement, among others. 21-01-97

### **DERE7741 - Conflict Mediation I.**

*Three credits. Two hours of lecture and one of workshop per week Prerequisites: DERE7017*

The course develops those skills necessary to conduct effective mediations in multiple settings. It considers and compares diverse methods of dispute resolution mechanisms as well as their history and psychosocial aspects. It also considers mediation in domestic violence settings and other ethical and professional responsibility concerns. These themes are considered through practical exercises and simulations. Students satisfactorily fulfilling the requirements of conflicts mediation i and ii are eligible for a certification as mediators by the supreme court of Puerto Rico, after complying with additional requirements imposed by the court.

### **DERE7742 - Conflicts Mediation Ii.**

*Three credits. Two hours of lecture and one of workshop per week Prerequisites: DERE7741*

The course develops those skills necessary to conduct effective mediations in multiples settings. It considers and compares diverse methods of dispute resolution mechanisms as well as their history psychosocial aspects. It also considers mediation in domestic violence settings and other ethical and professional responsibility concerns. These themes are considered through practical exercises and simulations. Students satisfactory fulfilling the requirements of conflicts mediation i and ii are eligible for a certification as mediators by the supreme court of Puerto Rico, after complying with additional requirements imposed by the court. This course will be offered face-to-face, hybrid and online modalities. Effective January 2023.

### **DERE7745 - Independent Study.**

*Two credits. Prerequisites: 31*

Directed legal research course with the purpose of converting a graded paper written for a seminar taken at the law school into a longer academic paper of publishable quality (25,000 words or more including footnotes). Before registering this course, the professor and the student must agree in writing the following: the research topic, the bibliography, as well as the research methodology and the type of paper that will result from the research. A copy of the written agreement shall be deposited at the dean's office, which agreement shall be executed by the student, the mentor and at least one additional professor who will be a reader of the paper.

### **DERE7899 - Ll.m. Monograph.**

*One credits. 15 hours of thesis or dissertation per week Prerequisites: DERE 7068-LEGAL RESEARCH AND WRITING I, (OR VALIDATION OF ANALOGUE COURSE). Corequisites: DERE 7068-LEGAL RESEARCH AND WRITING I, (OR VALIDATION OF ANALOGUE COURSE).*

This course leading to the development of basic skills necessary for writing a lengthy, publishable quality monography. Emphasis will be made in the proper way reference authorities and avoiding plagiarism. This course will be face-to-face, hybrid and online modalities.

### **DERE7985 - Legal Practice Workshop in Europe.**

*Three credits. 15 hours of lecture and 30 hours of supervised practice clinic.*

The workshop on the practice of law in Europe exposes students to the practice of the legal profession in Europe. Each student completes an internship in professional offices or in other legal entities in Europe. Assignment to office or legal entities takes into account the interest, needs and characteristics of the workplaces. Each student does the internship under the supervision of a professional designated by the office, who, in turn, maintains close communication with the program's management. The workshop also

includes a substantive component that takes place at conferences with expert faculty in law and professional practice in Europe. In conferences and meetings with the professor in charge and guests, topics related to law and professional practice in Europe are discussed. Students also visit legal institutions in Europe and attend conferences and other activities related to the practice of law so that they summarize in reports the various aspects of the organization, operation and type of practice of the law firm in which they work. This course will be offered in face-to-face, hybrid and online modalities. New descriptions began on August 2022.

**DERE7991 - Special Topics in Private Law.**

*One to 4 credits.*

Analysis of special areas and particularly current topics in the field of private law. (Each course code can be repeated for to 15 credits. A maximum of 46 credits in the course can be recognized towards the elective credits required for the juris doctor. No student is allowed to repeat the course if it has the same sub-topic, unless it is in accordance with the university's policies).

**DERE7992 - Special Topics in Private Law.**

*One to 4 credits.*

Analysis of special areas and particularly current topics in the field of private law. (Each course can be repeated for to 15 credits. A maximum of 46 credits in the course can be recognized towards the elective credits required for the juris doctor. No student is allowed to repeat the course if it has the same sub-topic. Unless it is in accordance with the university's policies).

**DERE7993 - Special Topics in Private Law.**

*One to 4 credits.*

Analysis of special areas and particularly current topics in the field of private law. (Each course code can be repeated for 15 credits. A maximum of 46 credits in the course can be recognized towards the elective credits required for the juris doctor. No student is allowed to repeat the course if it has the same sub-topic. Unless it is accordance with the university's policies).

**DERE7994 - Special Topic in Private Law.**

*One to 4 credits.*

Analysis of special areas and particularly current topics in the field of private law. (Each course code can be repeated for to 15 credits. A maximum of 46 credits in the course can be recognized towards the elective credits required for the juris doctor. No student is allowed to repeat the course if it has the same sub-topic, unless it is in accordance with the university's policies). Theme: law and special contracts of the tourism industry. P. H. Online.

**DERE7995 - Legal Practice Workshop.**

*Two credits.*

Direct, practical working experience in a professional legal environment. For two month-periods during the summer, students are placed in the offices of judges, government agencies, the legislative reference service, and private law firms. Face-to-face, hybrid and online modalities. Since January 2017 adds prerequisites: 22 credits including dere7068. 10-06-02

**DERE7996 - Special Topics in Public Law.**

*One to 4 credits.*

Analysis of special areas and particularly current topics in the field of public law. (Each course code can be repeated for to 15 credits. A maximum of 46 credits in the course can be recognized towards the elective credits required for the juris doctor. No student is allowed to repeat the course if it has the same sub-topic,

unless it is accordance with the university's policies). Theme: development of legal writing skills. P. H. Online.

**DERE7997 - Special Topics in Public Law.**

*One to 4 credits.*

Analysis of special areas and particularly current topics in the field of public law. (Each course code can be repeated for to 15 credits. A maximum of 46 credits in the course can be recognized towards the elective credits require d for the juris doctor. No student is allowed to repeat the course if it has the same sub-topic, unless it is accordance with the university's policies). Theme: preparation for the bar exam for the practice of law. P. H. Online. Theme: writing of text in criminal cases. P. H. Online.

**DERE7998 - Special Topics in Public Law.**

*One to 4 credits.*

Analysis of special areas and particularly current topics in the field of public law. (Each course code can be repeated for to 15 credits. A maximum of 46 credits in the course can be recognized towards the elective credits required for the juris doctor. No student is allowed to repeat the course if it has the same sub-topic, unless it is in accordance with the university's policies). Theme: forensic experience at the legal aid clinic. P. H. Online. Theme: theories of constitutional interpretation. P. H. Online.

**DERE7999 - Special Topics in Public Law.**

*One to 4 credits.*

Analysis of special areas and particularly current topics in the field of public law. (Each course code can be repeated for to 15 credits. A maximum of 46 credits in the course can be recognized towards the elective credits required for the juris doctor. No students is allowed to repeat the course if it has the same sub-topic, unless it is in accordance with the university's policies). Theme: evidence management in legal proceedings. P. H. Online.

## **COLLEGE OF EDUCATION**

**CIEJ6007 - Research Methods in Exercise Sciences.**

*3 credits.*

The course will present the research methods used in the discovery of resources, knowledge and data related to the elaboration of an investigation in the exercise sciences. Handling of statistical computer programs to make agile the procedures of the application of basic statistical methods, information search, use bibliographical resources, evaluation procedures and experimental research methods.

**CIEJ6010 - Seminar Physical Activity and Public Health.**

*One credits. One hour of seminar per week.*

Discussion of the importance of physical activity and prevention of sedentarism in the control and prevention of diseases in individuals and populations and its impact in public health. Analysis of different methods and instruments to evaluate physical activity and sedentarism. Includes practical experiences in the collection and interpretation of information about physical activity and health in individuals and populations.

**CIEJ6011 - Seminar of Interpretation and Writing in the Exercise Sciences.**

*One credits. One hour of seminar per week.*

Discussion of the importance of oral and written communication in the exercise sciences and its variants, depending on the audience that receives the information. Analysis of published studies and potential variations in the interpretation and application of results. Includes practical experiences in written and verbal communication and interpretation of the information being transmitted.

**CIEJ6015 - Intermediate Level Exercise Physiology.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**CIEJ6016 - Laboratory Techniques in Exercise Physiology.**

*2 credits. One hour of lecture and two hours of laboratory per week*

Study and practice in the administration and supervision of laboratory techniques to evaluate the acute and chronic effects of exercise in the functioning of the human body. Development of the skills of observation, data collection, analysis of results, discussion and the development of conclusions about topics of interest in exercise physiology. Includes equipment calibration and the writing of laboratory reports.

**CIEJ6019 - Independent Study in Exercise Science.**

*Three credits. Three hours of independent study per week*

Application of research methodology in the exercise sciences. Includes review of the literature, identification of the research problem, formulation of a hypothesis, development of the methodology and writing a research proposal.

**CIEJ6020 - Nutritional Aspects of Physical Activity.**

*Three credits. Three hours of lecture per week.*

The course will study the function of macro and micro-nutrients to health, physical activity, exercise and sports performance. It includes the study of nutritional ergogenic aids, the athlete's diet, pre event meal, eating disorders and considerations related to body composition and optimal weight.

**CIEJ6026 - Introduction to The Biochemistry of Exercise.**

*Three credits. Three hours of lecture per week Prerequisites: QUIM 3001 OR EQUIVALENT.*

Introduction to the study of the biochemistry of carbohydrates, lipids and proteins and their relationship with physical activity, exercise and sports training. It includes the analysis of human metabolism, muscle contraction, enzymatic activity and hormonal and nucleotide regulation during the exercise, how they affect the capacity to perform muscular work and how they adapt to exercise and sport training.

**CIEJ6035 - Physiological Assessment of The Physical Fitness.**

*Three credits. Prerequisites: CIEJ-6015, 6016.*

Study of field and laboratory methods to assess the components of physical fitness related to health and related to motor skills. Includes the evaluation, selection, administration and interpretation of results of tests to assess cardiorespiratory endurance, muscular strength, endurance and power, flexibility, agility, balance and body composition.

**CIEJ6045 - Exercise Prescription and Programming.**

*3 credits. Three hours of lecture per week Prerequisites: CIEJ6015, CIEJ6016 AND CIEJ6035*

The application of physiological principles in the prescription of physical exercise and administration of programs of physical activity for people of different ages, sex, health status and fitness level. It will emphasize the design of safe and effective physical activity programs using scientific principles and creative programming.

**CIEJ6067 - Human Motion Analysis.**

*Three credits. Two hours of lecture and one of laboratory per week.*

Study of the biomechanical principles and their interaction with mechanical and physics factors of human motion. Analysis of fundamental activities in exercise sciences and its variations including balance, dumping, walking, running, throwing, manipulation of objects, aerial maneuvers, among others. Analysis of factors

predisposing to musculoskeletal injuries and those factors for sports enhancement. Integration of fundamental principles of the human body and the manipulation of biomechanical variables for the prescription of training programs in healthy and injured individuals.

#### **CIEJ6069 - Practicum in Exercise Science.**

*Three credits. One hour of seminar and nine hours of practices supervised Prerequisites: CIEJ 6015-6016, CIEJ 6035, CIEJ 6045.*

Course designed to offer a work-education experience in an organization, corporation or agency that gives services in the field of exercise science to their clientele. The student will obtain practical professional, administrative, supervisory and leadership experience under the supervision of qualified personnel of the center and of the university.

#### **CIEJ6105 - Psychosocial Foundations Of The Exercise.**

*Three credits. Three hours of lecture per week.*

Study of the psychological foundations of exercise. Integration of theory and research with the application and intervention, helping the student to understand and develop the competencies to modify behavior in and towards exercise (adoption and adherence). Revision of the psychosocial aspects related to physical activity, exercise, and physical training.

#### **CIEJ6106 - Application and Management Of Information Technology for Research In Exercise Sciences.**

*Three credits. Three hours of lecture per week.*

This course will explore the theoretical and practical applications and management of the information technology for research in exercise sciences. We will study the most common uses of computers, information technology and remote computer access within the research process and the provision of assessment services in exercise science. We will analyze some common computer software programs for the development of research and protocols in order to access, process and construct knowledge, evaluation and intervention instruments that facilitate the writing of reports and scientific articles with an emphasis in the management of international networks, the access to scientific data bases, the use of electronical references and the ethical concerns of its use.

#### **CIEJ6205 - Seminar: Administrative Aspects in the Exercise Sciences.**

*One credits. Three hours of seminar per week.*

Seminar with emphasis on the application of theories and administrative approaches in the industry of the exercise sciences. Integrates essential issues for the management of exercise programs such as human resources, administration of facilities and equipment, legal aspects and risk management, program evaluation, and aspects of budget preparation.

#### **CIEJ6206 - Seminar-psychological Aspects of Physical Activity and Exercise.**

*One credits. Three hours of seminar per week.*

The course integrates the concepts, theories and methodologies related to counseling in the process of adopting and maintaining regular physical activity and exercise habits. Discussion of the psychological aspects related to the promotion and counseling of physical activity and exercise programs for individuals, communities and populations with special needs, in the context of the exercise sciences.

#### **CIEJ6207 - Seminar in Research and Creation in the Exercise Sciences.**

*3 credits. Prerequisites: TO APPROVE ALL CORE COURSES AND MAJOR COURSES. PERMISSION OF THE PROFESSOR WHO TEACHES THE COURSE.*

Application of research methods in the exercise sciences. Development of a research or creative project.



Depending on the nature of the research or creative project the course will be offered under the face to face, hybrid, distance or online modality. Constitutes full academic load for the student.

**CIEJ6208 - Continuation Seminar Research and Creation In The Exercise Science.**

*No credits. Three hours of investigation per week Prerequisites: CIEJ 6207.*

Continuation of the application of research methods in exercise. Development of a research or creative project. Writing a research article or creative project. Depending on the nature of the research or creative project the course will be offered under the in person, hybrid or online modality. Constitutes full academic load for student. Effective January 2021. Course face-to-face, hybrid, distance and online modalities.

**ECDO6500 - Art in Dress and Its Relation To Human Behavior.**

*Three credits. Three hours of discussion per week.*

A study of dress as an expression of art and its cultural, social, economic, and psychological implications to the individual and the family. An independent study of any of these aspects should be planned and developed. 10-10-94

**ECDO6505 - Theories and Practices In Child Rearing.**

*Three credits. Three hours of discussion per week.*

Critical consideration of recent scientific findings about children, including intellectual and cognitive areas and new trends in child rearing, related to change in inter-family relations. 10-10-94

**ECDO6506 - Home Management.**

*Three credits. Two hours of discussion and two hours of laboratory per week.*

Management of family income and resources. The decision-making process with emphasis on values and family goals. Analysis and study of family income, expenses, savings, investment, credit, retirement, plans, insurance and home financing in relation to family and personal financial planning. 10-10-94

**ECDO6507 - Present Approaches and Innovations in The Teaching of Home Economics.**

*Three credits. Three hours of discussion per week.*

This course includes an intensive study and critical analysis of research and literature available in relation to the present approaches and innovations in teaching of home economics as an alternative to social and educational problems. Emphasis will be given to the role of the educator as a change agent. 10-10-94

**ECDO6508 - The Puerto Rican Family: Social and Legal Aspects.**

*Three credits. Three hours of discussion per week.*

Study of the family and its position within the scope of the Puerto Rican social and legal organization. An analysis of institutions such as marriage, community, property, divorce, child custody, adoption, paternity proceedings, common law, estate and others. 10-10-94

**ECDO6509 - Family Economics.**

*Three credits. Three hours of discussion per week.*

Major changes affecting the economic situation of families; contributing factors and alternatives faced in making adjustments. Effect upon the standard of living, in production and distribution of national, state and in the price system. Savings, insurance, investment and consumer credit. (c) 10-10-94

**ECDO6510 - Seminar on Family Education and Population.**

*Three credits. Three hours of discussion per week.*

In this seminar the family is studied in relation to the population situation. Emphasis is given to communication among members of the family and decision making. The limits of population growth in

relation to other resources are analyzed. Population policy and action and the responsibility of education for the improvement of the quality of life are discuss. All available relevant scientific research is used. 10-10-94

#### **ECDO6515 - Human Nutrition.**

*Three credits. Three hours of discussion per week.*

Advanced study of energy metabolism, the metabolism of protein, lipids, carbohydrates minerals and vitamins. Emphasis in the biochemical and physiological principles in which human nutrition is based. Consideration is given to the nutritional requirements for the human being during the life cycle their scientific foundation and the relationship with dietary habits. (c) 10-10-94

#### **ECDO6520 - Food Microbiology.**

*Three credits. Three hours of discussion per week.*

This course includes the study of the relationship between food and the growth of bacteria, fungi and yeast. It will study the different methodology used in food preservation from antiquity to the present. It will also inquire into the different methods of detecting spoilage in canned goods. 10-10-94

#### **ECDO6526 - Food Science.**

*Three credits. Three hours of lecture per week.*

Study of the structure and composition of food. Manipulation, processing and storage on the chemical and physical characteristics of foods. Analysis of related scientific literature. 10-10-94

#### **ECDO6530 - Community Nutrition.**

*Three credits. Three hours of discussion per week.*

Study of the interaction of factors that affects the nutrition of the population. Emphasis is given to food production and availability methods used in evaluating nutritional status and world nutritional programs. Individual research project is required. (c) 10-10-94

#### **ECDO6537 - Seminar of The Family In Contemporary Society.**

*Three credits. Three hours of discussion per week.*

Critical analysis of recent research and literature concerned with the family in Puerto Rico and in other areas. Special emphasis will be given to the factors affecting the family in the changing society and to the different ways that will contribute to the strengthening of the same. Implications for educational programs will be considered. The course will have an interdisciplinary approach including the areas of anthropology, psychology and sociology. 10-10-94

#### **ECDO6538 - Independent Living for The Handicapped.**

*Three credits. Three hours of lecture per week.*

Development of independent living for the handicapped. Emphasis on current legislation and research and applying home economics concepts and techniques. (c) 10-10-94

#### **ECDO6547 - Sociocultural Aspects in Nutrition: A Methodological Approach.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6509 AND HOEC 4172 OR PERMISSION OF THE PROFESSOR.*

Comprehensive analysis of the environmental and sociocultural factors affecting human food behavior. 10-10-94

#### **ECDO6549 - Independent Studies in Home Economics.**

*One to Three credits. Students may register for one to three.*

One to Three credits. Students may register for one to three.

**ECDO6555 - Advanced Textiles.**

*Three credits. One hour of discussion and three hours of laboratory work per week.*

An advanced study of the latest developments in the textile industry, with emphasis in the use laboratory equipment for quality control tests. An individual research project is required. 10-10-94

**ECDO6565 - Housing: Implications for Family and Consumer.**

*Three credits. Three hours of lecture per week.*

The analysis and study of situations, conditions, factors of selection, and public policy which affect the development of housing and its implications for the family and for the consumer in Puerto Rican society. 10-10-94

**ECDO6575 - Well-being of The Elder and His Family.**

*Three credits. Three hours of lecture per week.*

Study of the basic theories of the physiological and psychological human aging process. The social problems arising from the increment of elderly population are analyzed. Evaluation of the nature of relationship between the aging person and his/her relatives and the application of the adequate techniques for a better interaction with the dependent elder. 10-10-94

**EDUC6005 - Management in Educational Leadership.**

*3 credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR OF THE GRADUATE PROGRAM.*

The basic principles of management within school administration. Study and critical analysis of the basic principles of management within school administration. Application of foundations of school management in the areas of accounting, and in fiscal matters and financing of educational institutions, data processing, and control operation, and techniques of management development and training.

**EDUC6006 - Methods and Techniques of School Supervision.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6521-6522.*

Study and critical analysis of the methods and techniques of school supervision; emphasis on the origin, development, implementation, and effectiveness of models and strategies of classroom supervision. Observation of classes planned, directed, and supervised by the students, laboratory techniques and simulation activities such as microteaching and micro supervision. 10-10-94

**EDUC6008 - Written Language in Spanish.**

*Three credits. Three hours of lecture per week.*

Critical study of the acquisition and development of the written language from a cognitive-interactive social perspective. Examine the relationship between the learner and the writing process, with the analysis of the implications of theories, curricular practices and methodological existing approaches. The student, based on field research, design curricular units which articulate the elements of the writing development process needed to develop the writing competency. 16-08-99

**EDUC6009 - Writing Academic Articles.**

*Three credits. One hour of lecture, one hour of discussion and one hour of workshop.*

This course examines and includes the academic writing processes as well as resources as the student writes an article where he or she researches a topic of his/her discipline. Writing and research strategies are applied and contextualized according to the basic components of academic discourse intended for publication: function, purpose, types, content depth and the reader profile

**EDUC6035 - Mainstreaming As An Educational Alternative For Curriculum Development In The Regular Instructional Program.**

*Three credits. Three hours of lecture per week.*

Mainstreaming as an educational alternative for curriculum development in the regular instructional program. Diagnosis of needs, strategies for change in the school organization, impact of different disciplines and its components in the educational process, such as: parents, students and community participation, in service training program for school, teachers and professors, legislation; and formative and summative evaluation of the alternative and its implications in terms of the Puerto Rican social reality. 10-10-94

**EDUC6036 - Methods for Teaching Adults.**

*Three credits. Three hours of lecture per week.*

Revision of learning theories and teaching methods in the area of adult education. Emphasis on the adoption of a systems approach to learning and to the competencies of the adult educator. Available research will be used. 10-10-94

**EDUC6037 - Trends in Adult Education.**

*Three credits. Three hours of lecture per week.*

Analysis of demographic, social and technological trends that justify adult education; outreach and projection of the program and factors affecting learning in the adult. Available statistics and research will be examined. 10-10-94

**EDUC6038 - Teaching, Learning and Creativity Through the Natural Sciences Curriculum.**

*Three credits. Three hours of lecture, discussion and seminar per week.*

Critical analysis of perspectives and theories which account for human learning and creativity in the natural sciences. This course investigates the theoretical and empirical foundations that support these perspectives as well as the analysis of their implications for the teaching of natural sciences at different school levels. Analysis of the factors that influence and propitiate the learning and creativity -genetics, social and cultural environment, ideologies, erroneous concepts, among others- and how to pay attention to them through the education process. Evaluation of education programs and teaching models according to the theories.

**EDUC6045 - Curriculum of Adult Education.**

*Three credits. Three hours of lecture per week.*

Critical evaluation of the curriculum of adult education. Current research and literature in this field will be studied and analyzed. Principles and concepts of curriculum planning to meet the needs and characteristics of the adult learner. The students will evaluate adult curriculum and make proposals for revision. 10-10-94

**EDUC6046 - The Role Of The Adult Educator.**

*Three credits. Three hours of lecture per week.*

Analysis of the role of the adult educator. The competencies that adult educators must possess and the application of these competencies in accordance with the role performed. Available research concerning these issues will be used. 10-10-94

**EDUC6047 - In-service Education in Educational Settings: Theory, Research, And Action.**

*3 credits. Three hours of lecture and fifteen of supervised fieldwork per week.*

Critical analysis of the in-service education process to facilitate the professional development of educational setting's personnel. Focused on the conceptual, technical, and social competences to facilitate the design, implementation, evaluation, and review of in-service education programs in diverse educational settings.

**EDUC6048 - Instructional Reflection: Theory, Research and Action.**

*3 credits. An hour and a half of conference and an hour and a half of discussion per week.*

Conceptualization, demonstration, and practice of options and processes directed to support and facilitate educators' reflection of their practice based on the analysis of research, issues, challenges and possibilities.

### **EDUC6055 - Microcomputers in Education.**

*Three credits. Three hours of lecture per week.*

Introduction to the use of microcomputers in education. Computer literacy will be developed in the students so that they will be able to use microcomputers in their professional endeavors as teacher, administrator or supervisor, counselor, or educational researcher. 10-10-94

### **EDUC6058 - Calculators and Computers In The Teaching Of Mathematics At The Intermediate And High School Level.**

*Three credits. Three hours of lecture per week.*

The use of pocket calculators and microcomputers in the teaching of mathematics. The application of the scientific calculator or microcomputer to several classical mathematical algorithms. Topics include problems in statistics and probability as well as the monte Carlo method. 10-10-94

### **EDUC6059 - Design of Computer-based Instruction.**

*Three credits. Three hours of discussion per week.*

Discussion of the models and techniques for the design, development and evaluation of computer-based instruction. Analysis of the various computer systems available for production. Discussion of the research literature on the design of computer-based instruction. The students will prepare a design for an educational computer program.

### **EDUC6060 - Logo for Teachers.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6055.*

An introduction to the use of the logo programming language for microcomputers. Its philosophy, the learning principles that support it and results from research are discussed. Workshop and lab experiences will help participants to develop the attitudes, knowledge, and skills necessary for using logo effectively in the classroom as a means toward developing creativity, thinking skills, and self-teaching skills their students. 10-10-94

### **EDUC6061 - Development Of Computer-based Instruction.**

*Three credits. Two hours of discussion and two hours of laboratory per week Prerequisites: EDUC 6055*

Practical course in the development of computer-based instruction. Discussion of the various types of authoring systems and resources such as software for designing graphics, animations and movies, and hardware such as digitizers. Cd-roms and video cameras. Development of the skills necessary for the production of educational software.

### **EDUC6063 - Design and Production Of Multimedia Presentation.**

*Three credits. Two hours of discussion and two of laboratory work per week Prerequisites: EDUC 6055, 6059.*

Discussion of the planning and production process of multimedia presentations. Emphasis on the relationship between learning objectives, materials and audience, as well as the relevant educational theories. Discussion of the literature on design and production of graphic materials. Analysis of the software and hardware available for the development of multimedia presentations. The students will produce a multimedia presentation that incorporated peripheral equipment such as videodisk players, cd-roms or compact disk. 19-08-96

### **EDUC6065 - Guidance and Counseling Of The Adult And The Elderly.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

An intensive study of published research on mid-life and elderly development. The course provides the student the opportunity to develop new counseling and consulting skills in order to help Puerto Ricans of these age levels who are going through a developmental crisis. 10-10-94

#### **EDUC6066 - Human Sexuality and The Counseling Process.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

An intensive study of the literature and published research on human sexuality and its implications to the guidance and counseling process in Puerto Rican society. 10-10-94

#### **EDUC6067 - Counseling and Guidance Of Handicapped Individual.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Techniques and strategies to be used in guidance and counseling of the handicapped individual in the educational setting. 10-10-94

#### **EDUC6068 - Discipline Models and Strategies In The Process Of Teaching.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

A study and analysis of discipline models and strategies in the process of teaching and learning. 10-10-94

#### **EDUC6069 - Alternative Conceptions In Chemistry: educational Implications And Didactic Approaches.**

*Three credits. Three hours of lecture, discussion and seminar per week Prerequisites: CHEM 3001-3002.*

Study of the mental formulations of the students' alternative conceptions in chemistry. The contributions of different philosophical, psychological and neuro- biological perspectives identified for the understanding of the mental processes that guide the construction of the scientific knowledge. Analysis of seminal studies to explore the alternative conception of the students on the scientific concepts and also the methodologies used for those purposes are examined, among others: heat, temperature, the nature of the matter, the covalent connection, kinetic chemistry, the chemical balance and electrochemistry. The conceptions that the students bring to the classroom as well as the methodologies that contribute to the conceptual change are examined on the basis of an analysis of the pertinent research literature.

#### **EDUC6070 - Counseling for Women.**

*Three credits. Three hours of lecture per week.*

A broad perspective on the social changes that have occurred and their consequences for the gender roles of women in contemporary society. The psychological effects of such changes. The general theories in the discipline of guidance and counseling, their adequacy and applicability to contemporary women. Contemporary strategies of intervention for today's women will be discussed. 10-10-94

#### **EDUC6075 - Professional Guidance and Counseling at The Elementary-school Level Three Hours. Three Hours of Lecture Per Week. Prerequisite: Permission of The.**

*Director. credits.*

The application of general knowledge in counseling and guidance at the elementary-school level, with emphasis on the relevant foundations, principles, and issues and the development of special skills for appraisal, intervention and scientific evaluation in the management of elementary school children with the school and home environment. 10-10-94

#### **EDUC6076 - Adolescence.**

*Three credits. Three hours of discussion per week.*

Critical review of theoretical and research work on the development and behavior of adolescents and on the

problems they may face, including those same issues as they apply to populations with special needs. Evaluation of educational and social programs for adolescents. 10-10-94

**EDUC6077 - Processes and Techniques in Counseling Interviewing Seminar.**

*Three credits. Three hours of seminar per week.*

Analysis of literature regarding interviewing methods. Concepts, techniques and ethical issues related to the interview in the counseling process. Practice different interviewing modalities to conduct interviews with diverse population and in multiple settings.

**EDUC6078 - Human Development Over the Life Span: implications for Counseling.**

*Three credits. Three hours of seminar per week.*

Study and evaluation of the human development theories, including physical cognitive, socio-emotional, moral and cultural aspects across the life span. Integration of concepts from theoretical perspectives serving as a framework for the counseling process.

**EDUC6085 - Computer Programming in Basic Language for Teaching.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6056.*

An extension of programming in basic from the educator's perspective with the purpose of enabling participants to create software that take advantage of the microcomputer's capabilities in order to enhance and facilitate the teaching-learning process. 10-10-94

**EDUC6086 - Persons with Special Needs In The Digital World.**

*Three credits. Three hours of discussion per week.*

This course is designed to discuss how assistive technology provides persons with special needs a means to access the digital world, while at the same time, creating increased opportunities for their inclusion in society. The relationship between digital technologies and assistive technology is examined in order to increase the level of participation of persons with special needs in formative, labor and community settings. This course will be offered in face-to-face, hybrid, distance and online modalities. Effective August 2021.

**EDUC6095 - Historical and Philosophical Development Of The Education Of The Child.**

*Three credits. Three hours of lecture per week.*

Analysis of main philosophical theories, diverse value systems, trends and methodologies related to the historical development of the field of childhood education. 10-10-94

**EDUC6096 - Theories of Childhood Development: Educational Implications.**

*3 credits. One hour and a half of lecture and one hour and a half of discussion per week.*

Analysis of child development theories: psychoanalytic, normative-maturations', behavior-environmental, and cognitive-interactionist. Emphasis in topics such as cognition, learning, social-moral cognition, metacognition, memory and personality development, among others. Analysis of local and investigations relevant to the studied paradigms and its implication for the educational practice with 0-15 years old children's, in Puerto Rico. Clinical experiences in school and home environments.

**EDUC6097 - Pre-school Education Programs.**

*3 credits. One and a half hour of lecture and one and a half hour of discussion per week.*

Study of various contemporary pre-school programs and other education models. Application of the conceptual model for programmatic and curricular analysis to identify objectives, select educational experiences and evaluate means for different programs. Analysis of the research and legislation on pre-school programs in Puerto Rico and the United States. Field experiences

**EDUC6098 - A Socio-cultural Perspective on Childhood In Puerto Rico Three Hour Of Discussion Per.**

*Week. credits.*

A study of childhood in Puerto Rico, emphasizing the social and cultural dimensions related to behavior and learning styles in children. Special attention to culture and the social environment as agents of socialization and to the implications and consequences of group expectations on children and on the learning process. 10-10-94

**EDUC6099 - Recent Trends in Elementary-school Teaching.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC 6096.*

Identification, analysis and evaluation of recent trends that influence the teaching-learning process in the elementary school and their implications for the elementary school in Puerto Rico. 10-10-94

**EDUC6105 - Study, Analysis, And Design of School Theater Curricular Content.**

*Three credits. Three hours of lecture per week.*

Study and analysis of different processes, methods, and techniques related to drama, as an academic discipline, with emphasis on theatrical animation. Design of the school theater program curriculum. 10-10-94

**EDUC6106 - Supervision of The Teaching in School Theater.**

*Three credits. Three hours of lecture per week.*

Processes, methods and techniques for the teaching of theater from educational and supervisory perspective. 10-10-94

**EDUC6110 - Evaluation In The Counseling Process.**

*3 credits. Three hours of lecture per week Prerequisites: ADMISSION TO THE GRADUATE PROGRAM.*

Introductory course in the use of test and other evaluation techniques in the counseling process. Includes practices of data collection, interpretation and organization of the information and its integration into the counseling process.

**EDUC6115 - Pre-school Curriculum Design.**

*3 credits. Three hours of discussion per week.*

Discussion of appropriate curricular practices in pre-school education. Analysis of research on the organization and sequence of activities pertinent to pre-school curricular and innovative practices. Includes a clinical experience.

**EDUC6116 - Reading from A Psycholinguistic Perspective.**

*3 credits. One and a half hour of discussion and one and a half hour of lecture per week.*

Reading as a psycholinguistic process. Research and its application to the pedagogy of reading. New descriptions began in August 2009.

**EDUC6117 - Learning and Evaluation in Early Childhood.**

*3 credits. Three hours of lecture per week*

Analysis of cognitive and learning theories relevant to early childhood education. Study of published research. Observations and empirical research with infants, toddlers, preschoolers and schoolers in Puerto Rico. Identification and analysis of interactions that foster learning and cognitive development in educational setting as well as their evaluation in the early years.

**EDUC6118 - Children's Literature and Pre-school Education.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6115 AND EDUC 6096.*



The role of children's literature in preschooler's total development. Analysis will be done among the relation of children's literature and: reading and writing, moral and the development of values, different curriculum areas and the clarification of non-sexist social roles related to gender. Updated research findings in children's literature will be analyzed. Independent clinical and field experiences must be realized. 10-10-94

**EDUC6119 - Pictorial Expression in the Early Childhood Years.**

*3 credits. Three hours of lecture per week Prerequisites: EDUC 6096.*

Seminar aimed at analyzing literature related to the development of the pictorial expression during the early childhood years. Study of the relationship among pictorial expression, the symbolic function and creativity within the educational context in Puerto Rico. Analysis of the impact of diverse development in children aged 0-8 years old. Includes experiences with children and workshops in plastic arts. January 17, 2001.

**EDUC6125 - The Role of Play In The Development And Education Of Preschoolers.**

*3 credits. Three hours of seminar per week.*

Seminar aimed at the research and analysis of literature related to the role of play in the development in childhood. Emphasis on the importance of play as an educational strategy in early childhood education. Clinical experiences with children will be required.

**EDUC6126 - Observation and Research Techniques for Children.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6095 AND EDUC 6096.*

Study of observation as a technique for carrying out research and evaluation of preschool and elementary school children. The conceptualization, design, implementation, interpretation and effective use as observational results emphasized. 10-10-94

**EDUC6127 - Teaching-learning Science in The Elementary School: Theory and Practice.**

*Three credits. Three hours of seminar per week.*

Seminar for the analysis and evaluation of research on the construction of knowledge and learning in the natural sciences. Application of relevant theoretical frames on the instructional design and effective teaching of children in the elementary school based on the instructional objectives of science at the national and local levels. Clinical, laboratory and field work required. 10-10-94

**EDUC6128 - The Teaching and Learning of Mathematics in Elementary School: Theory And Practice.**

*Three credits. Three hours per week of seminar.*

Analysis and evaluation of research on the construction of knowledge and learning of elementary school mathematics. Research and application of theoretical frameworks relevant to instructional design and effective teaching of children in elementary school, based on instructional objectives and standards of the discipline.

**EDUC6130 - Motivation and Learning.**

*3 credits. Three hours of lecture per week.*

The dynamic factors which initiate, direct and sustain human behavior, with special emphasis on the behavior patterns characteristics of the learning process and the all-pervading influence of motivation on factors and conditions surrounding the learning situation. Theories of motivation and development of a tentative unified theory of human motivation.

**EDUC6135 - The Development of Scientific and Logic-mathematical Thinking in The Early Years.**

*Three credits. Three hours of lecture per week.*

Analysis of the sequence of cognitive development that results in the construction of scientific and logic-

mathematical knowledge. Review of related research and its pertinence to the educational interaction in the preschool classroom. Clinical experiences aimed at observing, analyzing and undertake educational activities that foster the development of scientific and logic-mathematical thinking within the context of the home and school. 10-10-94

**EDUC6136 - Mathematics Elementary Level I: Number, Operations, And Algebra.**

*Three credits. Three hours of seminar per week.*

This course includes the analysis and evaluation of the most recent advances in the understanding of the construction of mathematical knowledge in elementary school. It has an emphasis in curriculum design and the effective teaching of the numerical sense that allows the transition from intuitive thinking to algebraic formalism. In addition, it covers the study and implementation of relevant theoretical frameworks.

**EDUC6137 - Mathematics Elementary Level II: Geometry and Measurements.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC6137*

This course includes the analysis and evaluation of the most recent advances in the understanding of the construction of mathematical knowledge in elementary school. It has an emphasis in curriculum design and the effective teaching of measurement and geometry.

**EDUC6140 - Role Of The Puerto Rican Cultural And Historical Experience In The Bilingual Bicultural Education.**

*3 credits. Three hours of lecture per week.*

Designed to provide background, awareness and sensitivity to the cultural and historical heritage of Puerto Rican children and its role in the bilingual bicultural learning process, and curriculum development; relationship of this heritage to schools in transition; field excursions may be included; role of ethnic studies. This course will be offered in face-to-face, hybrid, and online formats.

**EDUC6145 - Literacy as A Developmental Process in Preschoolers.**

*3 credits. Three hours of lecture per week.*

Seminar geared towards the study of the relationship between oral language development and the development emerging literacy from diverse theoretical perspectives. Analysis of recent research on how literacy emerges in preschoolers before first grade. Observations and field experiences around these developmental processes in the Puerto Rican context will be required.

**EDUC6147 - Reading and Writing Evaluation.**

*3 credits. Three hours of lecture per week.*

Study of the evaluation of reading and writing learning processes. Analysis of literacy processes evaluation practices, and the theories and perspectives that underline them. Study, development and application of different evaluation instruments and methods. Emphasis on valuing the learner as a reader and writer and in the documentation of his\her learning processes.

**EDUC6148 - Practicum: Diagnosis of Reading Problems.**

*Three credits. Three hours of supervised practice per week.*

Analysis of the psycholinguistic theory as it applies to the process of reading. The RMI is examined as a tool for diagnosing reading difficulties. Provides a supervised practicum in the use of the reading miscue inventory (RMI) as a tool to address the reading difficulties of typical as well as a typical student. 10-10-94

**EDUC6155 - Recent Trends on Social Studies in Elementary School.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6095.*

Analysis of recent research literature on social studies in the elementary school. 10-10-94

**EDUC6165 - Introduction to Counseling Research.**

*Three credits. Corequisites: AUTHORIZATION OF THE ACADEMIC COUNSELOR*

Theoretical, philosophical and sociological foundations of professional counseling research. Consideration will be given to the particular ethical, legal, and professional issues in counseling considering recent developments in the profession. Emphasis will be given to the counseling research from the methodological, conceptualization, research implementation.

**EDUC6175 - Administration of Student Services Program.**

*Three credits. One hour lecture and one hour discussion per week.*

Study of the literature and research tasks related to the creation, planning, administration, development and integration of programs and services for personal and academic development of the students in educational institutions. Analysis of responsibility of support programs and student services such as guidance and counseling, social work, sports, health, and others. Analysis of the strategies to create a positive culture that promotes student learning, the collaboration with community agencies which integrate services for students and the development of awareness to deal with individual differences and special needs.

**EDUC6185 - Teaching Styles in Physical Education.**

*Three credits. Three hours of conference per week.*

This course analyzes teaching styles and their relation to learning styles that promote student-centered educational situations, addressing their diversity and surroundings to maximize learning in physical education. The course analyzes the conceptual and structural basis of styles of teaching in physical education within the dynamics of the teacher-student and teaching-learning relationships and applies these relationship structures to foster an environment favorable to diverse learners. It assesses the various theories and models of teaching styles in physical education in a globalized world. Face to face, hybrid and online course. Effective January 2021.

**EDUC6201 - Trend, Topic and Controversies in Children's Literature.**

*Three credits. Three hours of lecture per week.*

Study of trends in contemporary children's literature. Examination of the diversity of topics that are dealt with in children's literature published in the last decades. Analysis of the existing controversies in the field of children's literature. Emphasis on trends, topics and controversies more prevalent at the moment the course is taught.

**EDUC6202 - Pedagogical Practices for The Development of Readers and Writers.**

*Three credits. Three hours of lecture per week.*

Course centered on the creation of readers and writers at the elementary level (k-6). Reading and writing are conceptualized from the perspective of the reader and writer and his/her creation. Analysis of theoretical perspectives and their methodological implications is studied as well, study of curricular approaches and methodological strategies for teaching reading and writing. Emphasis on pedagogical practices and the creation of environments that privilege the creation of readers and writers.

**EDUC6203 - Capstone Seminar in Preschool Education.**

*Three credits. Three hours of seminar per week*

This seminar addresses the synthesis and critical evaluation of specialized topics in preschool education, in order to apply the knowledge and competencies of research inherent in these, that were developed during the preschool education degree courses. Each student elaborates a project that responds to her or his particular creative research interest. It implies a contribution to the professional field in the classroom, within the context of the preschool setting, the school, the university of the community at large. This seminar

represents the final evaluation point of the master's program and is equivalent to full academic load for the student.

### **EDUC6204 - Capstone Seminar in Reading, Writing And Children's Literature.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC 6116, EDUC 6147, EDUC 6146, EDUC 6560, EDUC 6559, AND EDUC 6900.*

This seminar addresses the synthesis and critical assessment of specialized topics in reading, writing and children's literature, in order to apply the knowledge and the research and creation competencies inherent to these, that were developed throughout the courses of the masters in reading, writing and children's literature. Each student will conduct a project that responds to his\her research and creative interest or, becomes involved in an existing project in the master's program. It implies a contribution to the field of reading, writing and children's literature in the classroom, the school, the community or the university. This seminar represents the final evaluation point of the master's program and is equivalent to full academic load for the student

### **EDUC6207 - Introduction to School Counseling.**

*Three credits. Three hours of lecture per week.*

Study of the foundations and trends in professional school counseling. Emphasis on the development and implementation of comprehensive school counseling programs at all grade levels considering the professional counselor's main work areas (personal, career and academic). Discussion of the historical and contemporary contexts, functions of the professional as: counselor, leader, collaborator, advocate and agent of change. Application of ethical-legal principles and considerations.

### **EDUC6210 - Practicum In Educational Leadership.**

*3 credits. Nine hours of practice and three hours of seminar per week Prerequisites: EDUC 6521.*

Designed to offer practical experience in school administration and supervision under guidance. Students will spend a minimum of sixty hours during the semester participating in supervised activities. The use of techniques such as simulation and micro-teaching will be used intensively to allow the students to participate in the process of analysis and decision making. Actual practice in skills essential to good administration. Group studies, discussions and analysis of real problems and practices similar to those they will encounter in the future. The student will be expected to develop a variety of perspectives in school administration and supervision. Individual and/or group projects, extensive reading and reports will be required.

### **EDUC6230 - Education, Stratification, And Social Mobility.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO GRADUATE PROGRAM.*

The social phenomena of stratification and mobility in relation to educational problems. Concepts of social structure and social process are reviewed and discussed as a frame of reference. 10-10-94

### **EDUC6250 - Culture and Racism: The Effect on The Bilingual And Bicultural Education Environment.**

*Three credits. Three hours of lecture per week.*

Analysis of the essence of the relationship between culture, language, identity and racism, and their implications for the educational experiences of bilingual and bicultural children and the education of teachers; cognitive style will be related to culture content; minority identity and stigmatization would be analyzed in terms of indices of success and failure in school and the social and psychological adjustment to the educational environment. 10-10-94

### **EDUC6268 - Biographical Research in Education.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC6400, EDUC6513*

In depth study of biography as a research method for approaching educational problems, phenomena, and processes from the viewpoint of educational agents' study of ideas, feats, and contributions made by educational leaders related to the educational needs in Puerto Rico society, from a biography-based perspective critical analysis of related literature and development of competencies to perform biographical studies.

**EDUC6269 - Life Story in Education.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC6400, EDUC6513 OR ITS EQUIVALENT*  
Study of life story as a research design for examining educational themes. Critical analysis of related literature and the development of competencies for life stories research.

**EDUC6270 - Social Psychology of Education.**

*Three credits. Three hours of lecture per week.*  
A consideration of the structure, function and process of education from the point of view of social psychology. Special consideration will be given to current research. 10-10-94

**EDUC6275 - Culture Of Peace And Liberatory Education: Emergent Principles And Pedagogies.**

*Three credits. Three hours of seminar per week.*  
Study of theories, practices and emergent research, creation and action paths related to various critical, creative and liberating pedagogical trends. Emphasis on differentiated, personalized and diversified learning experiences, that will enable each student to make pertinent and innovative contributions that address the culture of violence in a variety of educational scenarios. Special attention will be given to the process of reflection-action-transformation. Inherent to a liberating education, in order to construct a praxis theory in the context of a pedagogical project proposal of an emancipatory nature, aimed at propitiating a culture of peace.

**EDUC6280 - Study, Analysis, and Designing of Curricular Content for The Teaching of Spanish.**

*3 credits. Three hours of lecture per week.*  
The course has been structured to cover study and analysis of the methods of designing a curriculum for the teaching of Spanish. Discussion of new trends and strategies for curriculum planning will enable the students to present program alternative to the Spanish curriculum. These will be based on the observation analysis and evaluation of a curriculum that emphasizes the systematic analysis of instruction. The students will visit schools and educational projects with innovations for the formulation and implementation of a curriculum for the teaching of Spanish in the secondary school.

**EDUC6285 - Pragmatic Teaching of The Spanish Grammar.**

*Three credits. Three hours of lecture per week.*  
The development of the abilities in the identification, production and teaching of the grammatical elements and structures of the Spanish language through the use of modern methodology of pragmatic nature. To fulfill these goals a variety of practical exercises, among others, that are enhanced by pragmatic synthesis of various grammatical theories are offered. 10-10-94

**EDUC6290 - Innovative Approach in The Teaching of History and Other Fields in the Social Studies.**

*3 credits.*  
Analysis of the innovations related with the teaching and strategies of history and other fields of the social studies. In the implementation of the course, emphasis will be given to laboratory experiences, the use of education technology, and relevant literary analysis. Face to face hybrid and online course.

**EDUC6300 - Programmatic Tendencies in Social Studies Curriculum.**

*Three credits. Three hours of lecture per week Prerequisites: EDPT 4005 OR THE EQUIVALENT.*

Study and analysis of recent trends in the structuring of history and other fields of the social studies curriculum. School curriculum from different countries will be studied and actualized in terms of their philosophies, course programs, guidance processes and student experiences. The course will proceed as a seminar and the participants will be required to do a curricular design project, using and applying the theory discussed. Face to face hybrid and online course. 10-10-94

### **EDUC6310 - Theory and Practice Of Counseling.**

*Three credits. Three hours of lecture per week.*

An introductory course in the principles and processes of individual counseling, with emphasis on the integration of counseling theories and their practical application. Various theories and schools of thought in counseling. Outstanding issues in counseling. Actual counseling practice involving role-playing, demonstrations, electronic recording of interviews and analysis of interviews and cases. 10-10-94

### **EDUC6315 - Adlerian Counseling.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6310.*

Study of helping intervention strategies and techniques proposed by Alfred Adler and his followers. Learning experiences such as case studies, design of interventions, role-playing and practical experiences will be provided. 10-10-94

### **EDUC6316 - Counseling and Spirituality.**

*Three credits. One hour of lecture, one hour of discussion and one hour of research per week Prerequisites: EDUC 6310*

Diverse theoretical, research and application approaches in and the spiritual dimension of the human beings are compared. The function of the spiritual domain in the life cycle is examined. 13-08-02

### **EDUC6320 - Practicum in Counseling I.**

*Six credits. Fifteen hours of practice and three hours of seminar per week Prerequisites: EDUC 6310 OR ITS EQUIVALENT.*

Supervised experience in an actual situation with emphasis on counseling. The counselor candidate has the opportunity to put into practice the theories and knowledge he has acquired, enabling him to better focus his attitudes, skills and knowledge. Opportunities for personal and professional growth are provided through continuous self-evaluation. Weekly individual consultation and seminar meetings. (c) 10-10-94

### **EDUC6330 - Seminar In Educational Research.**

*3 credits. One hour of lecture and two of laboratory work per week Prerequisites: EDUC6400*

Workshop in educational research that provides practical experience combined with discussions on the planning and development of the various phases of a research project. The course allows students to observe in the field the problems they might encounter during the course of an actual research project: administrative, personnel, interagency relations, among others.

### **EDUC6340 - Theory of Measurement.**

*3 credits. Three hours of lecture per week Prerequisites: EDUC 6390 AND 6431.*

Study of the classical and modern theory that underlies the use and development of measurement instruments in education and psychology.

### **EDUC6350 - The Psychology of Adult Learning.**

*Three credits. Three hours of lecture per week.*

Three credits. Three hours of lecture per week.

**EDUC6356 - Approaches to The Teaching of Literary Genres.**

*3 credits. Three hours of lecture per week.*

Analysis of research on tendencies and approaches to literary production and its educational dimension. Application of recent trends to the analysis of texts. The creation and application of innovative strategies and techniques for teaching literary genres will be used. Development of daily plans, exams and demonstrative classes.

**EDUC6360 - Group Counseling.**

*Three credits. Three hours of lecture per week.*

Guidance activities in groups, including orientation, homeroom, vocational planning, discussion of test results, group dynamics and group counseling. Course content will vary according to the type of client with whom the student-counselor may work. Emphasis will be given to the theory and practice of group counseling in educational and other similar settings. (c) 10-10-94

**EDUC6370 - Seminar: Teaching Strategies and Resources in Secondary School Science.**

*3 credits. Three hours of lecture per week.*

Study of selected topics relevant to the teaching of secondary school science. Emphasis is given to the following aspects: teaching strategies, techniques and resources for the teaching of secondary school science; evaluation of learning in science and problems related with the adoption and teaching of new science courses.

**EDUC6380 - Workshop for Curriculum Design.**

*Three credits. Three hours of lecture or laboratory work per week Prerequisites: EDUC 6501-6502 AND 6517.*

Emphasis is placed on curriculum design and the production of instructional materials in a variety of disciplines based on systematic analysis of the instruction. Curriculum materials such as guides, manuals, textbooks, audiovisual and programmed materials are surveyed, analyzed, selected, and evaluate. General and small group sessions are conducted by across discipline team to explore and discuss problems and issues in curriculum. Innovation in education, action learning modules, extended school year patterns, programmed instruction, audiovisual materials, behavioral objectives as they relate to curriculum receive proper attention. 10-10-94

**EDUC6390 - Applied Statistics in Education.**

*3 credits. Prerequisites: APPROVAL OF A PLACEMENT TEST OR EDUC 6580.*

Application of different statistical analyses in education, emphasizing their assumptions, justification, the processing of the data by computers, and the interpretation of the results. Frequency distributors, measures of central tendency and variability, probability distributions, correlation (parametric and non-parametric), regression, and hypothesis testing (t, chi square, and one way ANOVA). The use of computers is required. (c)

**EDUC6395 - Workshop on Computerized Educational Data Processing.**

*Three credits. One and a half hour of lecture and three of laboratory per week Prerequisites: EDUC 6509, EDUC 6390.*

The course consists of a workshop divided into three units which include the content, the organization, and the functioning of the programs which compose the statistical package for the social sciences.

**EDUC6400 - Research Designs.**

*3 credits. Three hours of lecture per week Prerequisites: EDUC 6509, EDUC 6390.*

Study, analysis, and development of research designs in education. Discussion of the strengths and challenges of different designs and issues related to reliability and validity or credibility. Analysis of research

that illustrate the different designs.

**EDUC6401 - Legal, Ethical and Professional Issues in Counseling.**

*Three credits. One hour and a half of lecture half an hour of discussion and one hour of workshop.*

Analysis of the critical professional issues in counseling with an emphasis on ethical and legal standards of practice and the challenges for the 21 Century.

**EDUC6402 - Elementary School Counseling.**

*Three credits. One and a half hour of lecture, half an hour of discussion and one hour of workshop per week.*

Applying the knowledge of counseling and development of skills to implement an elementary school counseling program. Developing counselors as advocates for the students, families and the entire school community at the elementary level.

**EDUC6405 - Applied Statistics in Education II.**

*Three credits. Three hours lecture 'per week Prerequisites: EDUC 6390.*

The application of inferential statistics analysis in education with emphasis in its assumptions, rationale, data processing, and the interpretation of results. It includes sampling, variance and covariance analyses, nonparametric statistics, correlation, and simple and multiple lineal regressions. Computer programs are used for the analysis.

**EDUC6410 - Educational Leadership in Special Education.**

*3 credits. Three hours of lecture per week.*

Principles and practices in the administration of special education programs in public and private institutions. Results of recent investigations in special education field will be analyzed.

**EDUC6415 - Action Research in Educational Contexts.**

*3 credits. Three hours of discussion per week.*

Study of epistemological, axiological, and theoretical foundations of action research, in addition to its methods and techniques. Emphasis is given to the link between research and action to improve teaching-learning processes and solve problems in educational contexts. Includes practice in planning, implementing and divulgation of this kind of research. Course offered face-to- face, hybrid and online.

**EDUC6416 - Research and Creation In The Field of Assistive Technology: trends, Developments and Implications.**

*Three credits. Prerequisites: EDUC6415 OR EDUC 6509*

Research, creation and knowledge transfer in the field of assistive technology. Discussion on research and creations that have provided the basis for evolution of at and the exploration of emergent topics that drive the development of new studies and creations. Emphasis on the research process as fundamental for the development of new technological alternatives for the population of persons with diverse capabilities.

**EDUC6430 - Study of Technology and Its Role in Curriculum Design.**

*Three credits. Three hours of lecture per week.*

Development of skills in the use of technology, its evaluation, selection and systematic application to the curriculum. Provides opportunity to the student to apply this knowledge to the design and production of a project in his area of specialization. 10-10-94

**EDUC6440 - Psycholinguistics and Psychology of Reading.**

*Three credits. Three hours of lecture per week Prerequisites: B.A.*

This is an interdisciplinary course in which recent contributions of both psychology and linguistics will be



studied as they relate one to the other. It will include an examination of the psychological and grammatical aspects of the spoken and written language. Fundamental psychological and linguistic principles will be applied to the teaching and learning of reading in the school and in contemporary life. Emphasis will be placed on the efficient use of the written and spoken language and its importance to education and culture. Special emphasis will be given to the value of printed materials and skills necessary to produce them. The development of thought and language skills in the child will be studied and various theories concerning this phenomenon will be discussed. Activities included in the course are laboratory experience in the public school and the writing of term papers based on studies made by the students. 10-10-94

#### **EDUC6445 - Psychopathology, Human Development and Counseling.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6310.*

Introductory course in the study of psychopathology, human development and its relation to the counseling process. Emphasis will be given to the most common diagnosed mental illnesses and its manifestations during the human developmental stages. Theories, research and the appropriate intervention strategies on mental conditions will be discussed. Emphasis will be given to the competencies a counselor must demonstrate regarding mental conditions.

#### **EDUC6450 - Advanced Physical Education for the Handicapped (practicum).**

*Six credits. Fifteen lectures in the summer school.*

The course offers advanced laboratory experiences and practicum in physical education for handicapped children. Emphasis will be on motor learning theories skills and process through short internships in setting for handicapped and nonhandicapped children. The course will be based on performance criteria in mastery of specific competencies. 10-10-94

#### **EDUC6455 - Child Abuse Among the General And Special Needs Population.**

*Three credits. One of lecture and two of discussion.*

The human rights foundations and legislation for the protection of minors and the types of maltreatment and neglect recognized in Puerto Rico are discussed. General risk factors affecting the general and special needs population as well as the implications of abuse associated with different disabilities are addressed. Intervention models and some education programs available in Puerto Rico will be discussed. Opportunities are provided to become familiar with the work of protection professional services and share ways in which educators in general and special education professionals in particular can contribute to reducing the incidence of child abuse by collaboration in prevention and intervention. August 18, 2002.

#### **EDUC6456 - Evaluation in Physical Education: analysis And Praxis In The School Context.**

*Three credits. Three hours of lecture per week.*

Study and evaluation of learning in physical education as part of the educational process. Analysis of evaluation techniques of the components of the discipline: basic physical skills, motor skills, cognitive development, attitudes, morphology, health, lifestyles, and physical activity. It includes the design of assessment tools in physical education to address regular education and special needs populations. It promotes the use of new technologies. Presential, hybrid and online course. Effective January 2021.

#### **EDUC6460 - Seminar on School Laws of Puerto Rico.**

*Three credits. Six hours of lecture per week.*

Analysis and discussion of school laws; rules and regulations of the department of education and supreme court decisions and their application to specific situations of special interest for the student. 10-10-94

#### **EDUC6465 – Puerto Rican Personality Representation.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6310*

A historian-geographics and sociocultural perspective of the Puerto Rican personality is offered and discussed. Contemporary research is analyzed as well as conducted and their implications for education and counseling are also discussed. 13-08-02

**EDUC6480 - The Planning of Organizational Change.**

*3 credits. Three hours of lecture per week.*

Study of models, processes, and practices of planned change in complex organizations from their philosophical, theoretical, praxeological ethical frameworks. Diverse methodologies of planned change are addressed, with attention paid to human processes, models of high impact and restructuring, and processes of organization reengineering. The vision and responses of leaders in the management of planned change in diverse complex scenarios are researched and interpreted.

**EDUC6500 - Training Institute on Bilingualism in Puerto Rico.**

*Six credits. Twenty-five hours per week Prerequisites: BACHELOR.*

Its sociological, historical and cultural background. Developing identity among the Newyorican children. His linguistic characteristics. Teaching strategies in English and Spanish for these children. Strategies for evaluation and research. 10-10-94

**EDUC6501 - Advanced Course in Foundations of Education I.**

*3 credits. Three hours of lecture per week.*

Man, his origin, nature, mental processes and personality. The theory of evolution, the philosophical and psychological conceptions of the nature of man theories of knowledge. The process and result of learning. Nature of individual personality and of rational self. The role and significance of the teacher in the formation and transformation of personality. Puerto Rican society; historical and anthropological points of view with special attention to social and cultural change. Philosophies of education and adequate philosophical orientation for our educational system.

**EDUC6502 - Advanced Course in Foundations of Education II.**

*3 credits. Three hours of lecture per week.*

Man, his origin, nature, mental processes, and personality. The theory of evolution, the philosophical and psychological conceptions of the nature of man theories of knowledge. The process and result of learning. Nature of individual personality and of rational self. The role and significance of the teacher in the formation and transformation of personality. Puerto Rican society; historical and anthropological points of view with special attention to social and cultural change. Philosophies of education and adequate philosophical orientation for our educational system.

**EDUC6503 - Education In Contemporary Society.**

*Three credits. Three hours of lecture per week.*

The socio-economic factors influencing the demands, growth, and development of education in specific cultural areas with emphasis on latin america, africa, Europe, the United States and russia. 10-10-94

**EDUC6507 - Education And The Social Order.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO GRADUATE PROGRAM.*

The school as a social institution and its relation to other aspects of society. Special emphasis on the application of general theory to Puerto Rican society and education. A critical evaluation of recent research. 10-10-94

**EDUC6509 - Research Methods in Education.**

*3 credits.*

Study of the nature, scope, methods, qualitative and quantitative techniques of educational research, and the use of computerized technology. Emphasis on planning, conducting and evaluating types of research. Face-to-face online and hybrid course.

**EDUC6510 - The Philosophy of John Dewey.**

*3 credits. Three hours of lecture per week.*

Various aspects of the thought of Dewey; the evolution of Dewey thinking from absolutism; to experimentalism; Dewey's theory of knowledge (with special emphasis on his book: logic the theory of inquiry); Dewey's theory of art (with special emphasis on his book, art as experience) Dewey on society, politics and law (with emphasis on the following books: human nature and conduct; reconstruction in philosophy and the public and its problems). Other aspects of dewey's thought will be discussed such as, ethics, religion, theory of valuation, theory of experience, psychology, history, schooling and education, etc.

**EDUC6511 – Masters’ Thesis or Project.**

*6 credits. Meetings by agreement with the professor.*

Preparation of the master's thesis or project, giving emphasis to the proposal and to the study of procedures to write the thesis or project.

**EDUC6512 - Continuation Of Masters’ Thesis Or Project.**

*EDUC6512 - Continuation Of Masters Thesis Or Project. Prerequisites: EDUC 6511.*

Continue the preparation of the master's thesis or project, giving emphasis to the implantation of the research or project and its defense.

**EDUC6513 - Seminary: Qualitative Research In Education.**

*3 credits. Three hours of conference per week*

Critical analysis of theoretical basis, models, and contributions of qualitative research to the study and comprehension of educational problems. Study of the paradigms and epistemological assumptions that underline the qualitative research approaches and methodologies used. Development of competencies in research proposal writing and conducting research. Face-to-face hybrid and online course.

**EDUC6515 - Field Experience In Educational Research And Evaluation.**

*3 credits. Six hours of laboratory work per week Prerequisites: EDUC6400 AND PERMISSION OF THE PROFESSOR.*

Field experiences in the different phases of the research process. The student should accumulate a minimum of ninety hours in this supervised practice the student will be assigned to an accredited research center or will collaborate in research projects undertaken by faculty members. May be taken up to two times (6 credits).

**EDUC6516 - Linguistics and Teaching Of Literacy In English To Spanish-dominant Children.**

*3 credits. Three hours of lecture per week.*

Analysis of the elements of language; examination of teaching and learning in the development of bi(literacy); oral and written expression in English with an emphasis on building on students' cultural and linguistics resources; comparative linguistic analysis of Spanish and English. This course will be offered in face-to-face, hybrid, and online formats.

**EDUC6517 - Principles Curriculum.**

*3 credits. Three hours of lecture per week.*

Discussion of problems and issues related to curriculum development and improvement study of curriculum

decision and the theoretical framework to make and prove those decisions. Particular consideration will be given to the need for curriculum changes and research.

### **EDUC6518 - Teaching of Reading In Spanish To English Dominant Bilingual and Bicultural Children.**

*Three credits. Three hours of lecture per week.*

Analysis of teaching and learning problems in developmental reading, oral and written expression in Spanish; analysis of elements of language and cognitive style; relationship of audio-lingual perception to bilingualism and language development; comparative linguistic analysis of Spanish and English. 10-10-94

### **EDUC6519 - The Secondary School Curriculum.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6517. ADMISSION TO GRADUATE PROGRAM.*

The main developments in curriculum from the 1890's (the committee of ten) to the present. An examination of issues and trends in curriculum making and an analysis of conditions affecting curriculum change. Special attention to current committees working nationally on curriculum improvement. 10-10-94

### **EDUC6520 - Reading In The Secondary School.**

*3 credits. Three hours of lecture per week.*

Analysis of the reading teaching process with special attention to the refinement phase. Presentation of reading problems characteristic of the secondary school based upon observations, investigations and the direct contact with the classroom of the Puerto Rican public schools.

### **EDUC6521 - Organizational Leadership In Education.**

*3 credits. Three hours of lecture per week.*

Study of theories, processes and principles related to administrative leadership in education. Development of knowledge, skills and dispositions to understand and improve the organization, implement operational plans, manage budgets and apply decentralized administrative processes and procedures towards the attainment of the institutional vision. Analysis of recent research and its implications for administrative leadership education.

### **EDUC6522 - Instructional Leadership In Educational Administration.**

*3 credits. Three hours of lecture per week*

Study of the nature and roles of instructional leadership in educational administration. Emphasis on the study of research, controversies, and ethical and legal considerations on instructional leadership.

### **EDUC6523 - Teaching Personnel Evaluation: Theory, Research And Action.**

*3 credits. Three hours of lecture per week Prerequisites: EDUC 6521 AND EDUC 6522.*

Critical analysis of the evaluation process as an essential component in the professional cycle of teaching personnel in educational settings. Focused on the cognitive, technical, and social competences to facilitate the design, implementation, evaluation, and review of evaluation system of teaching personnel in diverse educational settings.

### **EDUC6524 - Financing And Administration Of Fiscal Resources In Educational Organizations.**

*3 credits. Three hours of seminar per week.*

Study of general aspects related to the financing and administration of fiscal resources in educational organizations. Emphasis in the development of entrepreneurial competencies and skills for the administration of finances and the budgeting process. Analysis of the organizational budget according to its mission, goals and objectives. Development of the operational budget using technology.

**EDUC6525 - Classics In Education.**

*Three credits. Three hours of lecture per week Prerequisites: ADMISSION TO GRADUATE PROGRAM.*

An analysis of classical literature using a comparative theoretical framework and with reference to existing educational problems. A study of classical authors such as Plato, St. Augustine, Montaigne, Locke, Fichte, Jellroebel, Rousseau, Dewey and Hutchins. 10-10-94

**EDUC6526 - Strategies for Curricular Changes.**

*Three credits. Three hours of lecture per week.*

The contribution of investigation in curriculum development. The role of the educational leader in the change and improvement of the curriculum. The use and necessity of the laboratory and investigations as means for the production of innovations related to the curriculum changes will be emphasized. 10-10-94

**EDUC6527 - Current Trends and Practices In Administrative Leadership.**

*3 credits. Three hours of lecture per week Prerequisites: EDUC 6521.*

Selection and extensive discussion of pertinent problems and issues relating to school administration, emphasizing modern tendencies and practices based on principles derived from recent research and experience.

**EDUC6528 - Curricular Innovations In The Teaching Of Mathematics.**

*3 credits. Three hours of lecture per week.*

A focus and appreciation of those curricular innovations which are applied in the field of the teaching of mathematics. The student will have an opportunity to prepare and evaluate curricular designs.

**EDUC6529 - Cultural Deprivation, Family Dynamics, And Education In Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Class related patterns of experience or living are seen from a socio-cultural point of view and related to personality dynamics, using socialization processes as the connecting link between the theoretical frames of reference. Case studies provide illustrative material. Results of psycho-social analyses are related to the educational problems of culturally-disadvantaged students. 10-10-94

**EDUC6530 - Workshop In The Production Of New Materials To Teach Mathematics.**

*3 credits. Three hours of lecture per week Prerequisites: EDPE 4005 OR EQUIVALENT.*

Comprises the creation and elaboration of appropriate models to establish channels of communication and techniques of individualization in the teaching of mathematics. The work will be based upon systematic focus of instruction and students will develop projects applying the theory analyzed. Face-to-face, hybrid and online course.

**EDUC6535 - The Elementary School Curriculum.**

*Three to 6517. credits.*

A study of the development of the elementary school curriculum with emphasis on issues and trends in curriculum making and analysis of conditions affecting curriculum change. 10-10-94

**EDUC6536 - Dynamics Of School Supervision.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6521.*

Study and critical analysis of the guiding principles of school supervision. Application of the foundations of supervision to particular situations of school supervision in Puerto Rico, emphasizing the functions, roles and competency models of the school supervisor. Structuring of systematized designs of teacher evaluation. 10-10-94

**EDUC6537 - Introduction To Guidance And Counseling.**

*3 credits. Three hours of lecture per week.*

Systematic study counseling as a discipline and professional field. It will discuss aspects such as: profession's historic perspective and professional counselor's personal characteristics; theoretical approaches and the assistance process; client's problem conceptualization; assessment in counseling ; development and occupational counseling and future perspectives of the profession. The course will be taught through face-to-face, hybrid, distance and online modalities.

**EDUC6538 - Study Of New Skills In Investigation And Learning Theories.**

*Two credits. Two hours of lecture per week.*

Includes the study of theories, methods, strategies and research of recent investigations related to the process of teaching and learning. 10-10-94

**EDUC6539 - Occupational Counseling.**

*3 credits. Three hours of lecture per week Prerequisites: EDUC6110, EDUC6310*

The study of and proposition for new theoretical and practical trends in the design and implementation of intervention programs to promote occupational development. Critical analysis of occupational theories, research, programs, and services of occupational counseling in human resources and employment training. Psycho-educative group field experience in scholar setting.

**EDUC6545 - Practicum In Counseling Ii.**

*Three credits. Fifteen hours of practice and three hours of seminar per week Prerequisites: EDUC 6320.*

Intensive experiences in counseling under supervision. Emphasis on the interpersonal factors of the counseling relationship and self-understanding on the part of the counselor. 10-10-94

**EDUC6547 - Seminar On Socioeconomic Changes In Latin America And Their Consequences In Education.**

*Three credits. Three hours of lecture per week.*

The purpose of this seminar is to show the close relationship between socioeconomic changes and educational development. Latin america is used as sample of such relationship. 10-10-94

**EDUC6548 - Adult Education: Administration And Supervision.**

*Three credits. Three hours of lecture per week.*

Theory and practice of adult education administration and supervision with emphasis on the problems of adults and of continuing education in the school system, public agencies, and other institutions in Puerto Rican society. Basic issues, program planning implementation, and evaluation at the local level. Decision making and financing, community involvement and personnel development. 10-10-94

**EDUC6549 - Seminar In Recent Trends In Guidance.**

*Three credits. Three hours of lecture per week.*

Recent trends and innovative procedures or ideas which are having or show promise of having a great impact on the field of guidance and related activities. 10-10-94

**EDUC6550 - History Of Educational Ideas In Puerto Rico: Nineteenth And Twentieth Centuries.**

*Three credits. Three hours of lecture per week Prerequisites: EDPT 4005 OR ITS EQUIVALENT.*

Investigation and discussion of the educational ideas which have oriented the Puerto Rican educational system since the 19th century. General survey of the status of education in latin america during the 19th century up to this date. It starts with a general survey of the status of education in latin america during the

19th century. This general survey includes the analysis of the philosophical and educational tendencies during the 19th century which are then compared with the orientation of education through the Spanish colonial period. In the case of Puerto Rico the contribution to the history of educational ideas of men such as baldorioty, tapia and eugenio maria de hostos, is stressed. 10-10-94

**EDUC6551 - Research and Creation Seminar In Curriculum And Teaching.**

*Three credits. Three hours of seminar Prerequisites: APPROVE THE COMPREHENSIVE EXAM*

Integrative experience in which the student demonstrates research and creative skills in curriculum and teaching. This experience stems from the professional and academic interests of the student.

**EDUC6555 - Sociological Analysis Of The School As An Institution.**

*Three credits. Three hours of lecture per week.*

The school as a social institution. Examination of educational roles and role relationships, the etiology and resolution of role conflicts. The social structure of the school and its effect on communication, learning and leadership. School-community relations and their impact on the functioning of the school. Study of recent research. 10-10-94

**EDUC6556 - Seminar Of Controversies In Educational Leadership.**

*Three to 6 credits. Six hours of lecture per week Prerequisites: EDUC 6521-6522.*

Study and analysis of the social situation (problems) that the school administrators faced and their impact in the instructional program. Strategies for the solution of those problems will be discussed and analyzed. The course will include clinical experiences and the study of cases.

**EDUC6557 - Fine Arts In Educational Scenarios.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC6517*

In this course the philosophical and theoretical principles that serve as foundations for the integration of fine arts (fa) in different educational scenarios are analyzed. In addition, different approaches for the insertion of the fa in the curriculum as artistic subject, integration resource, or pedagogical strategy are defined. It examines studies concerning the teaching of fa and proposes curricular research topics.

**EDUC6559 - Children's Literature.**

*3 credits. Three hours of lecture per week.*

Study of literature geared towards children. Analysis of the history of universal and puerto rican children's literature, from its origins to the picture book. Emphasis on children's literature genres and its creators- authors and illustrators- from Puerto Rico, ibero-america and the rest of the world. Addresses the role of children's literature in the classroom and in other contexts and reading promotion programs.

**EDUC6561 - Seminar: Readings And Research In Educational Problems.**

*Six credits. Three hours of lecture and three of laboratory work Prerequisites: TWENTY*

An independent study project of a topic or problem selected by a student in consultation with the professor or group of professors in charge of the course. Extensive readings and experimental work will be required. The student will report periodically to the professor on the progress of his project a final written report will be required. 10-10-94

**EDUC6562 - Seminar.**

*No credits. Include laboratory Prerequisites: EDUC 6561.*

This seminar is offered without credit for the students who are working on their reading seminar. The student has the responsibility to be registered in the seminar till the end of his reading seminar. 10-10-94

**EDUC6566 - Diagnosis and Correction Of Deficiencies In Elementary Mathematics.**

*Three credits. Three hours of seminar per week.*

Seminar directed to the diagnosis, identification, and analysis of deficiencies in elementary mathematics, and the design of teaching-learning strategies for their remediation. It will include laboratory experiences with children. 10-10-94

**EDUC6569 - Educational Innovations And Strategies For Their Implementation.**

*3 credits. Three hours of lecture per week.*

A study of educational innovations and an analysis of the strategies that may be used for their implementation in educational organizations. Course hybrid.

**EDUC6570 - Designing Educational Material For Elementary School.**

*Three credits. Three hours of workshop per week Prerequisites: FOR MAJOR IN ELEMENTARY EDUCATION*

Course with a practical approach aimed at designing educational materials that foster concept acquisition and the development of skills in the various curricular domains. Recent research findings on how children learn will be taken into account. 10-10-94

**EDUC6575 - Intervention Programs.**

*Three credits. Three hours of lecture per week.*

This course presents an overview of interventions programs in place in various parts of the world, from diverse points of view: nutrition, education, cognitive development, recreation, motor development and others. The programs will be critically analyzed taking into account their objectives, implantation and socio-cultural milieu in which they provide services. The course will emphasize evaluation modes aimed to judging the effectiveness of the program. 10-10-94

**EDUC6576 - Curriculum Development And Its Relationship To Learning Within The Social, Cultural And Philosophical.**

*Structure credits.*

Study in depth of theory and design of curriculum which related to Puerto Rico educational needs and reality. Special emphasis to the analysis and research relating to curricular development. Provides field experience for the development of necessary skills for the designing and preparation of individual curricula. 10-10-94

**EDUC6578 - Advanced Seminar On The Nature, Needs And Education Of The Exceptional Student.**

*Three credits. Three hours of lecture per week.*

This course studies the etiology, identification, characteristic, learning difficulties, and the education of the exceptional child and youth. Modern teaching practices as well as sociological, philosophical, and psychological factors that affect the education and placement of the exceptional individual will be emphasized. 10-10-94

**EDUC6579 - Education, Urbanization And Urban Ecology.**

*Three credits. Three hours of lecture per week Prerequisites: BACHELOR DEGREE.*

This course is designed for teachers, school administrators, supervisors, advisers, social workers and other school personnel who need a basic understanding of the social structure and processes in the urban-metropolitan setting. A study will be made of the educational needs, problems and opportunities in relation to the changing ecology of the city and of the development of metropolitan areas with specific reference to Puerto Rico. The principal parts of the study include the following: urban ecology, the process and impact of urbanization, personal adjustment in the city and urban renewal and planning. As far as possible, field observation and studies will be made of different urban and suburban areas, the model cities project, and of various projects of the urban renewal and housing corporation. 10-10-94



**EDUC6585 - Learning Laboratory.**

*Two credits. Thirty hours of laboratory work per semester.*

This course offers experiences that will be conducive to working more effectively in groups. The student will have the opportunity of acquiring a better insight of the impact he makes on groups and comparing his functioning with that of others. The student will be offered the opportunity of knowing the image which others have of him and how this projected image can influence his work as an education. The student will analyze the stages of development of a group, how groups solve their problems and learn in the process. 10-10-94

**EDUC6586 - Evaluation Theory and Methodology.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6509 AND 6390.*

Study of evaluation as specialized type of research. Critical analysis of main theoretical models; their epistemological and value judgmental basis as well as their methodologies. Development of basic skills for planning and conducting evaluation. 10-10-94

**EDUC6587 - The Psychology of The Young Adult.**

*One credits. Three hours of laboratory work per week.*

Psycho-social and educational implications of personal problems, satisfactions, hopes, struggles, encounters, frustrations, conflicts, attitudes, ect. That emerge (and with which one has to deal) in the process of becoming a well adjusted adult human being in the new and emerging social order. 10-10-94

**EDUC6588 - Research Writing: Style and Language Usage.**

*Three credits. Three hours of lecture per week.*

This course is directed toward developing in the student a greater awareness of language usage and in helping him to use it more efficiently as a mean of communication. An analysis will be made of the nature of the science and the art of style and its appropriate use in diverse situations, especially in written language. 10-10-94

**EDUC6589 - Teaching And Systems Analysis.**

*Three credits. Three hours of lecture per week.*

Knowledge, skills and attitudes needed to apply systems analysis as a mean of improving teaching. It gives special emphasis to the preparation of learning packages, applying the following basic components: structuring of operational objectives, content selection, evaluative procedures (pre and post evaluation), selection and preparation of materials, and teaching methods. The student is offered the opportunity of designing and creating curricular material, using various techniques of individualized instruction. The students will participate in systematic analysis of course offerings and in planning for the most efficient use of modern technology in the learning process. 10-10-94

**EDUC6590 - Planning For Educational Change: The Analysis And Application Of The Supervisory And Administrative Process.**

*Three credits. Three hours of lecture per week.*

The study, analysis and application of social change theory with special emphasis in the strategies used to induce behavior and attitude change essential for the necessary flexibility and acceptance of educational change. Discussion and analysis of the dynamics of the social order, analysis and application of "systems" in education and educational technology. How the supervisory and the administrative process are applied to a system, with emphasis on field practice to apply the theoretical constructs of supervision and administration thru special projects designed to meet existing community needs and which will provide experiences in leadership role playing and action towards educational change. 10-10-94

**EDUC6595 - Language Development And The Process Of Reading.**

*Three credits. One hour of lecture and three of laboratory work per week.*

To give teachers of young children a better understanding of the nature of language development and of the teaching of reading. These will be related to success in school learning. Some of the areas to be covered are: the role of parents and teachers in children's language development and learning to read, screening and diagnostic procedures to identify children who deviate from the normal in language development and reading and methods of compensatory training to be used in the classroom. 10-10-94

**EDUC6596 - Classroom Evaluation.**

*3 credits. Three hours of lecture per week Prerequisites: CONSENT OF THE DIRECTOR.*

Study of the theory and methodology of evaluation of student learning. Emphasis on the development, adaptation, and use of techniques and instruments. Data analysis and interpretation to evaluate student achievement.

**EDUC6597 - Test Construction.**

*3 credits. One hour of lecture and two of laboratory work per week Prerequisites: EDUC 6390.*

Study of the basic theory and main systematic methods for constructing different types of tests. It includes practical experience in test development. (c)

**EDUC6598 - Community and Political Leadership in Educational Organizations.**

*Three credits. One hour for lecture, one hour for discussion and one hour the investigation Prerequisites: EDUC 6521.*

Study of the models for community development and the public relations applicable to educational organizations and community education. Analysis of community leadership and emerging paradigms in the establishment of effective processes of community relationships as a fundamental element for the accomplishment of educational goals and objectives. Evaluation of legal provisions, standard rules and regulations, related policies and the relationship between public policy and community wellbeing. Presential, hybrid and online course. Effective for January 2021.

**EDUC6599 - Trends in The Teaching of Secondary School Science.**

*3 credits. Three hours of lecture per week.*

Study of recent curriculum innovations in secondary school science. Attention is given to the rationale, context, structure and approach to the teaching of modern high school science. Curriculum design and adaptation and enrichment of curriculum materials with reference to the teaching of science in the school system in Puerto Rico.

**EDUC6600 - Seminar: Musical Expression in Early Childhood.**

*Three credits. Three hours of seminar per week*

Study of literature related to the development of musical expressions in early childhood and its relationship to cognitive and creative development. Analysis of the most influential method for teaching music and of their educational implications when implemented with children in the Puerto Rican context. 10-10-94

**EDUC6605 - Educational Planning and Social Change.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Analysis of the issue: social change vs. Educational change, analysis of the goals and objectives of the educational system as well as those of the social development of Puerto Rico. 10-10-94

**EDUC6607 - Education on Rural Areas.**

*Three credits. Three hours of lecture per week.*

This course is offered for the administrators and supervisors, the counselors and the classroom teachers in schools serving people in rural areas. It attempts to provide these school personnel with an understanding of the concept "rural" which springs from a population of low density, related to the economics of agriculture, tradition-bound, yet challenged by modern rapid social change. The mission of the school in rural areas is studied in relation to the rural social organization, rural social processes, rural social problems and rural planning development. 10-10-94

**EDUC6609 - Educational Philosophy of Eugenio Maria De Hostos.**

*3 credits. Three hours of lecture per week Prerequisites: GRADUATE STUDENT.*

Research, analysis and interpretation of the educational philosophy of Eugenio Maria de Hostos with the goal of deriving recommendations that can be applied to the Puerto Rican educational Endeavour. This course will be offered in face-to-face, hybrid, distance and online modalities. Effective August 2022

**EDUC6615 - Vocational And Technical Education: Principles And Practices.**

*Three credits. Three hours of lecture per week.*

Analysis and development of vocational education with emphasis on its projections and implications for preparing persons for work. 10-10-94

**EDUC6616 - Multicultural Counseling.**

*Three credits. One hour and a half of lecture and one hour and a half of discussion per week.*

An exploration of multicultural concerns related to the knowledge and research as well as the beliefs, attitudes and skills of counselors. Includes issues related to social justice and advocacy in reference to the counseling processes.

**EDUC6617 - Curriculum Development In Vocational Education.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Analysis and application of curriculum models for vocational education, emphasis in curriculum model based on teaching competencies. 10-10-94

**EDUC6618 - Educational Leadership In Vocational Education.**

*3 credits. Three hours of lecture per week.*

Study and analyses of theory and practice in vocational educational leadership. Study of specific problems faced by the vocational administrator in technical and vocational schools.

**EDUC6619 - Innovative Approaches of The Teaching Of Vocational Education And Higher Skills.**

*Three credits. Three hours of lecture per week.*

Study and analysis of innovation strategies and projects in vocational education and higher skills. Evaluation and their applicabilities to the Puerto Rican realities. 10-10-94

**EDUC6620 - Foundations Of Physical Education.**

*Three credits. Three hours of lecture per week.*

Analysis and study of the physical education foundations. They will be discussed according to their relation to the physical education program. Face to face hybrid and online course. Effective January 2021. 10-10-94

**EDUC6625 - History Of Physical Education.**

*Three credits. Three hours of lecture per week.*

The role of physical education in the lives of people throughout history to the present, with emphasis in the events, movements and persons that have influenced the development of physical education. The Greek and

roman concepts compared to the renaissance and reformation periods. Important events in the history of physical education in Puerto Rico. 10-10-94

**EDUC6626 - Philosophical and Theoretical Foundations of Organizational Leadership.**

*Three credits. Three hours of lecture per week.*

Study and integration of interdisciplinary philosophical frameworks to the analysis of educational organizations, their structure, and socio-cultural context. Study and discussion of diverse administrative organizational and leadership to understand and transform educational organizations.

**EDUC6627 - Graded Exercise Testing: Methods and Procedures.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR.*

The human physiological, anatomical, pathophysiological, and psychological basis needed for effective graded exercise testing will be discussed. The following topics will be included: electrocardiography, equipment calibration, patient screening, protocol selection, data collection and summary, basic cardiopulmonary resuscitation, emergency procedures, and exercise prescription. 10-10-94

**EDUC6629 - Organization and Administration Of Physical Education Programs And Secondary And Postsecondary Sports Administration.**

*Three credits. Three hours of lecture per week.*

Study of nature and importance of organization and administration of the physical education programs- academics and extra-curricular. Emphasis in theories, concepts and administrative skills application in physical education programs development in school system for k-12 and postsecondary. 10-10-94

**EDUC6645 - Principles of Instructional Design.**

*Three credits. Three hours of lecture per week.*

The essential characteristics of instruction so that the teaching-learning process may be successful. The external events of instruction are analyzed and the way in which these affect the internal processes of learning taking as point of reference the learning theories. Different models of systematic instructional design and their contribution to the improvement of the teaching-learning process as investigation reveals are studied. Course hybrid. 10-10-94

**EDUC6646 - Design, Implementation And Evaluation Of An Instructional Technology Program..**

*Three credits. Three hours of lecture per week.*

The skills in the design, development, implementation and evaluation of instructional technology programs at different levels and in different educational contexts. Analysis social, human, philosophical and economic factors which affect the integration process of technology to the educational system. Includes the analysis of the system components such as utilization, selection and evaluation, cataloguing, production, maintenance and repair of equipment from the point of view of curriculum design and development. Emphasizes in new technologies such as computerized instruction as well as in other learning systems and its implications. Identify paradigms that could be used in the development of the program. 10-10-94

**EDUC6647 - Design And Production Of Multi-sensory Materials.**

*Three credits. Three hours of lecture per week.*

This course develop skills and knowledge in the design and production of a learning unit with multi-sensory materials. Emphasizes the relation that should exist among the objectives, the material, and the clientele for whom they are designed. 10-10-94

**EDUC6649 - Contemporary Themes In Technology: Television For Children.**

*Three credits. Three hours of lecture per week.*

Review of the literature related to the theme of television for children. The history of television for children and analyses of important issues such as stereotypes, violence, advertisements, consumerism, regulations and future trends. Analysis of the symbolic message of some children's programs with the purpose of finding out how it affect children's behavior. 10-10-94

**EDUC6650 - Creating Online Courses Workshop.**

*Three credits. One hour lecture, one hour discusion and one hour workshop per week.*

In this course focuses on skills, and concepts related to partial or total online course creation. Topics concerning desing and production using commercial computer applications will be covered. Face to face and hybrid course.

**EDUC6659 - Computer Mediated Telecommunication and Its Application In Education.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6055*

Study of the general aspects of telecommunications through local computer networks and internets. Internet resources utilization. Discussion of educational projects and applications of telecommunications through microcomputers. Development of documents to be published in the world wide web. Analysis of ethical issues, trends and other current issues related to telecommunications through microcomputers. 12-08-97

**EDUC6660 - Needs Assessment in Education.**

*Three credits. Three hours of lecture per week.*

Study of the process for the design and production of needs assessment in the educational field. 10-10-94

**EDUC6665 - Strategic Leadership In Educational Administration.**

*3 credits. Three hours of lectures per week.*

Study of theories, concepts, processes and principles related to strategic leadership in education.

Development of knowledge, skills and attributes to identify contexts; articulate and implement, collectively, the vision and purposes of an organization; analyze information; define problems; and exercise leadership to accomplish shared goals and act ethically in education communities.

**EDUC6666 - Needs Assessment and Educational Planning.**

*Three credits. Three hours of lecture per week.*

The needs assessment and its function in educational planning and its implications for the decision-making process of the administrator. The student, as a future administrator, shall relate him/herself with types, models strategies, techniques, instruments, tasks, and activities proper of the needs assessment. All these experiences shall be integrated by carrying on a needs assessment in an educational institution. 10-10-94

**EDUC6668 - Seminar of Planning Techniques.**

*Three credits. Three hours of lecture per week.*

A deeper and broader study of educational planning techniques. Includes the description, advantages, disadvantages and guides for the implementation of such techniques. This course also provides experiences for the application of the planning techniques to practical situations within the educational context in Puerto Rico. 10-10-94

**EDUC6669 - Organizational Culture Inn Educational Institutions.**

*3 credits. Three hours of lecture per week.*

Analysis of the implications of organizational culture for leadership, decision making and the process of change in educational institutions. Analysis of recent research and their implications for the development of the organizational culture in educational institutions. Face to face hybrid and online course.

**EDUC6670 - Administrative Leadership in Elementary And Secondary Schools.**

*3 credits. Three hours of lecture per week.*

Study of the administrative practices applied to elementary and secondary school. Emphasis in the methods and techniques used to facilitate the tasks and processes realized by the administrative leader. Study of the competencies needed for the development of a learning community. Analysis of recent research and its application to the administrative practices.

**EDUC6675 - Instructional Message Design.**

*Three credits. Three hours of lecture per week.*

Study and analysis of research in educational psychology and instructional media for the development of instructional materials design principles. Course face-to- face and hybrid. 10-10-94

**EDUC6685 - Assistive Technology: Fundamental, Issues, and Applicability.**

*3 credits. Two hours of lecture and one hour of discussion per week.*

Analysis of assistive technology (at) as an essential tool to promote the independence and productivity level of persons with diverse capacities in the formative, working and community settings. Study of the historical, and legal fundamentals which justify and promote the use of at to increase the inclusion of people with diverse capacities in the educational and social context. Study of the diverse technologies associated to this field as they relate to the characteristics, strengths, and challenges of each group of exceptionality. Face-to-face, hybrid and online course.

**EDUC6700 - Audiology: Speech and Language.**

*Three credits. Three hours of lecture per week.*

A study of the auditory system, auditory pathologies, hearing measurement, audiometric interpretation and amplification. 10-10-94

**EDUC6705 - Curriculum Development and Instructional Methods For The Hearing-impaired.**

*Three credits. Three hours of lecture per week.*

Curriculum planning and instructional strategies for teaching hearing-impaired students at all levels with emphasis on the elementary and intermediate. Selection, modification, development and use of instructional media with the hearing-impaired. 10-10-94

**EDUC6706 - Aural-oral Communication Skills For The Hearing-impaired.**

*Three credits. Three hours of lecture per week.*

This course is designed to provide students a knowledge based in aural-oral communication and to enable them to serve as advocates for speech and audition in educational programs. The course provides methods for speech and the use of audition and speech reading for the hearing impaired. 10-10-94

**EDUC6707 - Education And Psychology Of The Hearing-impaired.**

*Three credits. Three hours of lecture per week.*

Historical, philosophical, psychological and social aspects of the hearing-impaired. An orientation on problems, issues, and research in the field of the hearing-impaired with consideration to historic and current objectives, techniques and results. 10-10-94

**EDUC6708 - Diagnosis and Remediation Of Reading Difficulties Of Hearing-impaired Children.**

*Three credits. Three hours of lecture per week.*

The problems of teaching reading to hearing-impaired children and the development of skills in diagnosing and correcting specific reading problems of deaf children. 10-10-94

**EDUC6709 - Language Development Of The Hearing-impaired.**

*Four credits. Four hours of lecture per week.*

Provides students with a knowledge of the syntax and semantics of Spanish and English for language assessment and programming. It also includes techniques, methods, curricula, integration of language with other areas of the curricula. 10-10-94

**EDUC6710 - Understanding Autism: biopsychosocial Foundations, Research and Educational Practices.**

*Three credits. Three hours of seminar per week.*

General introductory course in which the biological, psychological and social foundations of autism and the therapeutic and educational interventions are analyzed. Historical, etiological and investigative aspects are addressed in the context of a paradigm that highlights strengths and differences in neuro development. Special attention is given to early diagnosis, identification and intervention; the design of differentiated strategies of communication and socialization; and to alternative methods of educational assessment and accommodation. Current themes and innovations related to the autism continuum are explored from a multidisciplinary perspective.

**EDUC6711 - Simultaneous Communication I.**

*Two credits. Two hours of lecture per week Prerequisites: EDUC 6709.*

This course will provide the future teacher of hearing impaired children a basic vocabulary of about 500 signs. They will be trained on how to use those signs simultaneously with speech and fingerspelling. 10-10-94

**EDUC6712 - Simultaneous Communication II.**

*Two credits. Two hours of lecture per week Prerequisites: EDUC 6711.*

This course will expand the basic simultaneous communication skills that the student taking this course must have. It will introduce 500 new signs and will provide basic experience in expressive interpreting in simultaneous communication. 10-10-94

**EDUC6715 - Teaching Methodology and Differentiated Educational Spaces for Learners with Autism Spectrum Disorder (asd).**

*Three credits. Three hours of seminar per week Prerequisites: EDUC 6710.*

Seminary including teaching methodology and creation of educational differentiated spaces for learners with the autism spectrum disorder (asd). Study the history and evolution of education for this population, and the public policy established for it. Analyze diverse programmatic approaches, strategies and intervention use to educate learners with autism of different ages and functional levels. Emphasis in research and related projects, emerging educational models and strategies. Field experience.

**EDUC6717 - Social History of Education in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

A historical study of the formation, development and evolution of Puerto Rican society and the ways in which educational processes, both institutional and non-institutional, were conceived and carried out from pre-Hispanic times to the present. 10-10-94

**EDUC6719 - Diagnostic-prescriptive Teaching of Deaf Children With Multiple Handicaps.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6707, EDUC 6709.*

This course will review the most common combination of multiply handicapped conditions associated with deafness. It will cover instructional techniques, classroom management, and individualized education program implementation for this population. 10-10-94

**EDUC6720 - Learning Technologies.**

*Three credits. Three hours of seminar per week.*

Critical study of the theoretical frameworks and research related to the integration of technology to education. Analysis of the diversity of modern and emergent technological resources that educators can use to design, develop, and implement learning experiences. Course hybrid.

**EDUC6725 - Student Teaching with Hearing Impaired Children.**

*Five credits. Nine hours of practice and three hours of seminar per week Prerequisites: EDUC 6700, EDUC 6705, EDUC 6706, EDUC 6707, EDUC 6708, EDUC 6709 AND EDUC 6998.*

Through supervised student teaching, the student will demonstrate instructional competencies in knowledge of subject, planning learning activities, teaching techniques, classroom management, selection of teaching materials for the hearing impaired and the nature and needs of this population. 10-10-94

**EDUC6726 - Design and Development of Assistive Technology Alternatives.**

*Three credits. One hour and a half of discussion and one hour and a half of workshop per week.*

Course for the design and development of low-cost assistive technology alternatives and adaptations to high technology for individuals with special needs in formative, vocational and community contexts. It promotes the evaluation of mainstream technologies, term used to refer to the technologies of common use in society. Within a reflective and critical perspective towards their professional practice, the experiences will strengthen the students' understanding of their role in facilitating access to citizens with special needs to the activities that take place in the environments in which they interact. Face to face, hybrid and online course.

**EDUC6730 - Curriculum Design of Educational Programs.**

*Three credits. Three hours of discussion per week Prerequisites: EDUC 6517.*

Curriculum design of education programs in which the principles and models that guide their development, implementation and evaluation are linked. It examines and investigates theories and trends in the processes and practices of teaching-learning for curriculum design in accordance with the educational and professional context where it will be implemented.

**EDUC6735 - Seminar: Practices, Trends, And Controversial Issues on Curriculum Design.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC 6517.*

Analysis of the social, cultural, political and economic trends and other controversial issues that influence curriculum designs and educational practices. Emphasis on the study of different learning environments as social scenarios for the design of curricula and its interpretation in teaching. Exploration of alternative proposals for curriculum design.

**EDUC6740 - Diagnostic Evaluation and Differentiated Educational Assessment For Students With Austin Spectrum.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC 6710.*

Seminar on the study of multidisciplinary diagnostic evaluations for learners with and. Examination of different instruments for evaluation. Study traditional forms of educational evaluation and new alternatives for assessment of learners with autism. Analysis of different assessment approaches. Creation of activities and instruments for alternate assessment. Emphasis on research and related projects, emergent models and strategies. Field experience required.

**EDUC6745 - Addressing Behavior In Learners With Autism And The Development Of Their Social Competences.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC 6710.*

Seminar including multiple theoretical approaches to the behavioral and socioemotional development of



learners with autism. Profound study about the evaluation and screening processes of autistic behavioral manifestations. Explores different methods and instruments used with that purpose. Discusses educational strategies and prevention and intervention models. Studies the evaluation, support, and assistance offered to learners with autism during the transition process from childhood to adolescence and late to young adults. Includes field experience.

**EDUC6746 - Strategies to Overcome The Communication Challenges Of Learners Of With Autism.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC 6710.*

Seminar concerning the principles and components of typical communication and the communicational differences and challenges faced by learners with autism spectrum disorder. The course discusses teaching strategies that support their communication capabilities and promotes social skills. It emphasizes the importance of augmentative and alternative communication, assistive technology, educational technology, and environmental modifications when preparing their individualized education programs. Also, it includes field experience.

**EDUC6755 - Curriculum And Methodology For Teaching Individuals With Severe Disabilities.**

*Three credits. Three hours of lecture per week.*

Analysis and development of special and regular curricular models and materials adapted for the optimum integration of children and youth with severe disability in school and communities. 21-01-97

**EDUC6800 - Problems and Issues In Special Education.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6578.*

Discussion and analysis of contemporary problems and issues that affect special education. Emphasis will be given to social, philosophical and psychological theories, as well as economic and legal issues that influence the development of special education for exceptional children and youth. 10-10-94

**EDUC6805 - The Teaching Of Children And Youth From A Constructive And Humanistic Perspective Of Learning.**

*Three credits. Two hours of lecture and two of laboratory work per week Prerequisites: THREE GRADUATE*

The course provides students the theoretical and practical knowledge regarding the teaching of children and youth with mild handicaps based on their abilities. It discusses and provides practical opportunities in designing and implementing holistic educational activities to promote the learning of reading, writing and mathematics. It emphasizes a constructivist and humanistic model of learning in the elaboration of educational activities giving particular attention to learners developmental processes. The course allows regular and special education teachers to address the educational needs of learners with difficulties based on a model stressing strengths. 20-01-98

**EDUC6807 - Intelligences, Talents And Creativity: Foundations, Trends And Educational Implications.**

*Three credits. Three hours of lecture per week.*

Broad and integrative overview regarding the foundations of an education centered in the optimal development of the student's intelligences, talents and creativity. Emphasis on the formation of the educator' smethaphorical, theoretical and practical thinking regarding trends in the field, through self-reflection, shared reflection, participative-action-research, and creative work. 21-01-97

**EDUC6809 - Authentic Assessment As An Instrument For Learning.**

*Three credits. Two hours of lecture and two of laboratory per week.*

Examination of assessment as a data collection procedure for different purposes. It emphasizes the need to know philosophical perspectives, the instruments, techniques and procedures available to carry out

authentic assessment that improve teaching and learning within the context of regular and special education. 21-01-97

**EDUC6830 - Specific Reading Curriculum Designs.**

*Three credits. Three hours of seminar per week.*

Inquiry dealing with curriculum designs pertaining to the field of reading. Study of programs, in terms conceptual bases and their methodological approaches. Analysis and application of the curriculum on reading related to exceptional children, bilingual children with different linguistic and cultural backgrounds. Systematic observation of one of these groups. Production and evaluation of a unit and other curricular materials.

**EDUC6835 - Curriculum And Teaching For The Optimal Development Of Intelligences, Talents And Creativity..**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6807*

Critical and creative analysis of curricular and teaching theories, research studies, models, projects and initiatives centered in the optimal development of the student's intelligences, talents and creativity. Emphasis on the role of the educator as planner and reformer of curriculum and teaching, highlighting his/her action-thinking, the collaborative dimension of action-research, and the creative innovation process in the educational endeavor. 21-01-97

**EDUC6855 - Practicum In Special Education.**

*3 credits. Three hours of lecture per week Prerequisites: TO HAVE APPROVED 21 REQUIRED*

Individual and contextualized learning experience of a flexible and varied nature that allows students to explore and make innovative contributions in areas and scenarios of their interest, that at the same time are relevant to special education. Emphasis in participatory and collaborative action-research, creative work, teaching, service-learning and the application of competencies and attitudes that describe the alumnae profile that the special education master program aspires. The course includes 3 weekly seminar hours with the supervisor and 150 hours of work in the tasks includes in the work plan.

**EDUC6865 - Research/creation Project Seminar In Special And Differentiated Education.**

*3 credits. Three hours of seminar per week Prerequisites: APPROVAL OF CORE COURSES EDUC6578 OR EDUC6800, 6807, 6809, 6855. AND ONE RESEARCH COURSE (EDUC 6509 OR EDUC 6415).*

Personalized, differentiated and contextualized learning experience aimed to establish the foundations and guide the ideas and practices of students in the special and differentiated education program who are working in their creative/research projects. Centered on : a)creative construction of projects based on educational research;b)research/creation processes from an educational standpoint; c)project design from the systematized reflection of academic and professional experiences; d)methodologies for elaboration and design of emergent educational projects; e)foundation and contextualization of creative/research projects; and f)possible contributions of their projects for the innovation and transformation of authentic educational scenarios. This integrated seminar will enable the completion of the master's research/creative project in the field of specialty.

**EDUC6905 - Qualifying Doctoral Exam.**

*EDUC6905 - Qualifying Doctoral Exam. Prerequisites: EDUC6517, EDUC6509, SIX*

Approval of the qualifying exam is required in order to continue studies w within the uninterrupted bachelor's to doctoral program (plan b) in curriculum and teaching. This profram constitutes an accelerated track to a doctoral degree that is offered to graduate students holding only a bachelor's degree. The objective of the exam is to gauge competency in aspects of curriculum, the sub- specialty, foundations of education, research methods, and the area of emphasis

**EDUC6915 - Knowledge Production and Writing.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC6588*

This course examines and applies writing processes and resources at the final stage of the research text. The student analyzes and interprets data in relation to writing strategies towards transformation and converting content knowledge into a written text. The global coherence and cohesiveness of the text is achieved by its final revision.

**EDUC6995 - Independent Study.**

*One to 3 credits. From one to three contact hours Prerequisites: PROFESSOR'S APPROVAL.*

Designed to provide graduate students an opportunity for individual or independent work in an area of particular interest or field of specialization which does not duplicate the courses in the graduate studies department. The courses activities may include research projects, practical experience, cooperative projects, monographic papers, and others with the purpose of maximizing curricular flexibility and responding to the students interests. It requires the professor approval for registration. This course may be taken up to a maximum of nine credits.

**EDUC6996 - Specialized.**

*Studies. credits.*

Designed to give students an opportunity for individual work in an area of particular interest or field specialization. Students may register for one to six credits depending on the nature of the study assigned and the time allotted for it. Individual needs will be satisfied by strengthening the weak spots in the studies program while avoiding unnecessary duplication in courses offered by the department of graduate studies. The nature of the assignments might include de experimental or research projects, Independent work, practical experience, cooperative projects, or internship, with an eye to maximizing curricular flexibility and providing relevance to student needs.

**EDUC6997 - Curriculum Design and Construction.**

*Two to Three credits. Two to three hours of lecture and workshop per week.*

Issues and problems in the design of teaching programs. Emphasis will be given in the development of theories and investigations in the curriculum field the course will consist of three important parts:

**EDUC6998 - Field Work for Curriculum Design and Strategies for The Instruction.**

*Two to Six credits. Two-six hours of lecture or laboratory work per week.*

The student will devote part of his weekly time to one or more educational centers -public or private schools, head start, colleges, universities, etc., emphasis will be given to the problems related to curriculum. He will work in new curricular designs, as well as the design for new strategies for instruction and/or with strategies for curricular changes. 10-10-94

**EDUC6999 - Field Work in Educational Leadership.**

*Two to 4 credits. Two-four hours of lecture or laboratory work per week Prerequisites: EDUC 6521.*

The student will work in an investigation related to the professional problems (organization, evaluation, achievement, etc.) of the school district or the educational region. The student will work independently with the assistance of a professor.

**EDUC8001 - Multivariate Analysis in Educational Research I.**

*3 credits. Three hours of lecture per week Prerequisites: EDUC 6390.*

Theory and application of the following techniques of educational research analysis: multiple regression and correlation; multivariate analysis of variance; univariate and multivariate analysis of covariance and logistic

regression. Emphasis is given to the use of computerized statistical programs to carry out the analysis.

**EDUC8002 - Multivariate Analysis in Educational Research II.**

*3 credits. Prerequisites: EDUC 8001.*

Theory and application of the following educational research analysis techniques: discriminant analysis, factor analysis, canonical analysis, causal models and multidimensional scaling. Attention is given to the use of computerized statistical programs to perform these analyses.

**EDUC8005 - Cognitive Processes.**

*Three credits. Three hours of lecture per week Prerequisites: AUTHORIZATION OF THE DIRECTOR OF DOCTORAL PROGRAM.*

Empirical and theoretical bases for the cognitive process. Critical and detailed analysis of the conceptual frame of thought, knowledge, reasoning, problem solving, and learning of concepts. 10-10-94

**EDUC8006 - Society and Education.**

*3 credits. Three hours of lecture per week Prerequisites: PERMISSION.*

Study of sociological theories of education. Analysis of controversies and discourses related to current educational issues from the philosophical, historical, social cultural and economic perspectives. Emphasis on contemporary macrosocial issues and their impact in education. Research on problems and challenges of contemporary education.

**EDUC8007 - The Teaching of Opposing Viewpoints In Social Studies.**

*Three credits. Three hours of lecture per week.*

Analysis and discussion of outstanding topics in social studies for which opposing viewpoints exist. It includes the study of possible strategies for content presentation in classroom. Face-to-face, hybrid and online course. Effective for January 2021. 10-10-94

**EDUC8008 - Philosophical Anthropology In Education.**

*3 credits. Three hours of lecture per week.*

Analysis of several theories of man as they are applied to education. Includes historical background, current situation and their implications to the field of education.

**EDUC8009 - Theories Of Learning.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Critical analysis of the assumptions, principles and logic of the main learning theories and the scientific methodology used by theorists in education implications of these theories for the curriculum development and teaching. 10-10-94

**EDUC8010 - Society, Culture, And Education In The Caribbean.**

*Three credits. Three hours of lecture per week.*

Critical analysis of research regarding the Caribbean area, focusing on regional and specific countries. Analysis of cultural, socio-economic and political trends and realities are emphasized in their relationship with education. 10-10-94

**EDUC8015 - Seminar On Pragmatism, Existentialism, And Knowledge Of Self.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6501-6502.*

Examination of three mutually exclusive perspective on "human reality". It analyzes each of them in its bearing on the unresolved issues in philosophy, the social sciences, and education. Each of these positions appears to be valid; they will be studied by reading material by scholars in their fields. 10-10-94

**EDUC8016 - Organizational and Administrative Theories in Education.**

*3 credits. Three hours of lecture per week.*

Study and analysis of the most recent administrative theories and their application to the school setting considering the sociocultural and special characteristics present in the particular milieu under study.

**EDUC8017 - The Role of the Counselor in Behavior Modification.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6360.*

Analysis and application of behavior modification intervention models. Emphasis upon the development and strengthening of behavior considered appropriate in group dynamics. 10-10-94

**EDUC8018 - Correlational and Causal Comparative Research.**

*3 credits. Three hours lecture per week Prerequisites: EDUC 6509,6390.*

Study and development of non-experimental quantitative research in education, specifically, correlational and causal comparative research, both cross-sectional and longitudinal. Emphasis on the study of is essential characteristics and methods. Includes practical experiences, use of technology and report writing. This course will be offered in faced-to-face, hybrid, distance and online modalities. Effective August 2022.

**EDUC8019 - Research In Guidance And Counseling.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6539.*

Critical analysis of research in the field of guidance and counseling and its application in our circumstance. 10-10-94

**EDUC8020 - Experimental Research in Education.**

*3 credits. Prerequisites: EDUC 8001*

Theory and practice in the design, analysis and interpretation of experimental and quasi-experimental research. Critical review of substantive and methodological issues in planning and conducting experimental research in an educational setting.

**EDUC8021 - Multimedia For Virtual Learning Environments.**

*Three credits. Three hours of seminar per week.*

Discussion of the issues as they relate to the conceptualization, design and implementation of multimedia in virtual learning environments. Particular consideration will be dedicated to the design of multimedia and virtual learning environments framed. In addition, this course will engage in review and research in this field. Course hybrid.

**EDUC8022 - Theories and Practices Of Distance Learning.**

*Three credits. Three hours of seminar per week.*

Study of the theories and practices that support the models in the field of distance learning. Includes a critical analysis of the practices and use of technologies related to distance learning. The various methods of evaluating courses and distance learning programs will also be analyzed with emphasis on online education. Course hybrid.

**EDUC8025 - Ethical Perspective of Childhood An Education.**

*3 credits. One hour and half of lecture and one hour and half of discussion per week.*

Philosophical analysis of childhood from the constructivist and naturalist perspectives. Explores the themes of children's rights in modernity starting from j. J. Rosseau's naturalism and i. Kant's ethics. Analysis of the applicability of the concepts of liberty, democracy, authority, and punishment from the view of the effectiveness of the Socratic ethical precepts which supposes that ethical knowledge is sufficient to ensure

moral behavior. Course can be offered in face-to-face, hybrid, distance and online modalities.

**EDUC8026 - Leadership in Educational Administration and Supervision.**

*3 credits. Three hours of lecture per week.*

Study of the principles and theories of leadership and their application to supervision in the different school levels. Leadership in educational institutions.

**EDUC8027 - Contemporary Practices in Didactic Leadership.**

*3 credits.*

Study and analysis of contemporary practices in didactic leadership. Analysis of leader competencies to enhance academic programs.

**EDUC8028 - Curriculum Evaluation.**

*3 credits. Three hours of lecture per week.*

Advanced study and analysis of the principles that underlie the different strategies followed in curriculum evaluation, in both its formative and summative aspects. Recommended methodology the curriculum evaluations; selection and application of strategies and models for curriculum evaluation.

**EDUC8029 - Curriculum Construction And Design.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6517.*

Study and analysis of the principles that underlie curriculum construction and design and their application to our situation. Issues and problems in curriculum design; emphasis on the development of curriculum theory and research in this area. 10-10-94

**EDUC8030 - Evaluation Of Educational Programs And Systems.**

*3 credits. Three hours of lecture per week Prerequisites: EDUC 6400 OR EDUC 6586.*

The study of procedures utilized to evaluate educational programs and ongoing systems.

**EDUC8031 - Seminar: Paradigms, Changes, And Trends In Educational Technology I.**

*One credits. Three hours of seminar per week.*

Critical analysis of the paradigms of theoretical or practical interest within the field of educational technology. Emphasis on the study of the historical background, philosophy, paradigms, theoretical frameworks and research in educational technology. This seminar is the first of a sequence of three seminars offered during the consecutive, semesters in order to provide the opportunity for enrichment as the students progress through their study plan. Course hybrid.

**EDUC8032 - Seminar: Paradigms, Changes, And Trends In Educational Technology Ii.**

*One credits. Three hours of seminar per week.*

Critical analysis of changes in the professional practice of educational technology. Emphasis on the study of the role or professional associations on the development of educational technology and their legal and ethical implications for teaching and learning and for practice of teaching. This course is the second in a sequence of three seminars offered during three consecutive semesters in order to provide the opportunity for enrichment as they progress through their study plan. Course face-to-face and hybrid.

**EDUC8033 - Seminar: Paradigms, Changes, And Trends in Educational Technology Iii.**

*One credits. Three hours of seminars per week.*

Critical analysis of trends and future developments of theoretical or practical interest within the field of educational technology. This seminar is part of sequence of three seminars offer during consecutive semesters in order to provide the opportunity for enrichment for the student as they progress through their

study plan. Course face-to-face and hybrid.

**EDUC8035 - Controversial Issues in Guidance and Counseling.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Critical analysis of controversial issues in the field of guidance and counseling. Emphasis on relevant literature and research. 10-10-94

**EDUC8036 - Postsecondary Students' Nature, Development and Needs for Counseling.**

*3 credits. Three hours of lecture per week.*

Exhaustive study of the literature and research of postsecondary students' nature, development and needs and their implications for counseling program. The course will be taught though face-to-face, hybrid, distance and online modalities.

**EDUC8037 - Counseling Techniques and Strategies in The Secondary and Post-secondary School Levels.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 8035 AND EDUC 8036.*

Study and critical analysis of counseling strategies and techniques and their application to secondary and post-secondary level students. Emphasis will be given to individual and group counseling processes and to the techniques that facilitate these helping processes with clients that present problems of vocational, academic, personal nature and interpersonal relationships. 10-10-94

**EDUC8038 - Introduction to Family Counseling.**

*Three credits. Three hours of lecture per week.*

The historical antecedents, philosophical assumptions, and diverse models of family counseling or therapy shall be studied. The different theoretical approaches shall be assessed in order to determine their applicability to Puerto Rican culture. Special attention shall be given to the utilization of the models discussed in class, for intervening with families in conflict or crisis. 10-10-94

**EDUC8039 - Counseling Techniques and Strategies in The Preschool, Elementary and Intermediate Levels.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 8036, EDUC 8019 AND EDUC 8025.*

A critical analysis of the techniques and strategies of interview processing and evaluation of individual, group and community counseling for the preschool, elementary and intermediate level, focused on its use and application with different problems (vocational, academical, personal, interpersonal and family); with different populations (regular, special and dysfunctional) and under different approaches (preventive, extended, remediated). 10-10-94

**EDUC8040 - Community Counseling and Human Ecology.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 8035 AND EDUC 8036.*

Analysis of community psychology involvement. Community and social institutions dynamic, as well as, controversial issues of the Puerto Rican life style will be studied. The counselor's role as social change agent will be emphasized. 10-10-94

**EDUC8045 - Advanced Course in The Teaching Of Reading.**

*3 credits. Three hours of lecture per week.*

Critical analysis of theories and contemporary practices, tendencies, problems, and controversial issues in the teaching of reading from an interdisciplinary perspective. Current methods and techniques of research in cognitive-conceptual psychology, reading, and comprehension processes with concerns for curriculum design and instructional practices. New description begins on August 2006.

**EDUC8046 - Guidance and Counseling for Career Development.**

*Three credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

An exhaustive analysis of the literature and scientific research development on career development theories and their implications on the process of guidance and counseling of individuals who are going through different stages of growth and who find themselves in different settings (school, at work, etc. ) in Puerto Rico. 10-10-94

**EDUC8047 - Strategic Planning in The Administrations Educational Organizations.**

*3 credits. Three hours of lecture per week Prerequisites: PERMISSION OF THE DIRECTOR.*

Study of the concepts, processes, practices and techniques of strategic planning in educational organizations. Analysis of the philosophy, structure and processes, elements that establish the basis for developing the vision, mission, goals and objectives that provide direction and transform educational systems through the study of diverse contexts.

**EDUC8048 - Curricular Development Theory And Its Application To Different Levels Of Instruction.**

*3 credits. Three hours of lecture per week.*

Analysis of the theories which guide curriculum development in different dimensions and from different points of view. Emphasis in the application of these theories in different instructional levels.

**EDUC8049 - Models For The Teaching Of Natural Sciences At The Secondary And Post-secondary Levels..**

*Three credits. Three hours of lecture per week.*

Analysis of the major theories of human cognition that have implications for instruction; analysis of instructional events in terms of the promotion of learning, and experience in evaluating instructional problems on a theoretical basis. It is expected that the student will learn to describe the theories and their application to the design and delivery of instruction in traditional natural science subjects, and formulate models to support effective learning and thinking strategies. 10-10-94

**EDUC8050 - Educational Implications of The Theories About Science.**

*3 credits. Three hours of lecture per week.*

The study of concepts on the nature and the philosophy of science through the critical analysis of the different theories about the scientific thinking, the knowledge and the inquiry processes. The development and evolution of these theories is seen in its historical and social contexts. The theories implications for science education is also studied along with research on problems pertinent to the topic of study. New descriptions began August 2009.

**EDUC8055 - Educational Policy Analysis and Formulation Through Simulation Models And Systems Management.**

*Three credits. Three hours of lecture per week.*

Theory and practice of the design of models and simulation, and how these techniques can be used as tools in setting educational policies and guidelines. 10-10-94

**EDUC8056 - Cognitive Development.**

*Three credits. Three hours of lecture per week.*

Analysis of the main theories and empirical evidence relating to cognitive development. Implications of this knowledge for curriculum development and teaching. 10-10-94

**EDUC8057 - Linguistic and Didactic Theory of Language.**



*Three credits. Three hours of lecture per week.*

Application of linguistic theories to the teaching of Spanish as a vernacular. Consideration of the general principles concerning language acquisition while concentrating on the inclusion of the lexical, acquisition while concentrating on the inclusion of the lexical, morphosyntactic, and meditative aspects of language in the curriculum. 10-10-94

**EDUC8058 – Meta-philosophy, Epistemology and Ethics in Education.**

*Three credits. Three hours of lecture per week.*

Examine the relation between philosophy and philosophy of education. Inquires and evaluates problems which are inherent to teaching from the perspective of epistemology and ethics. Course can be offered in face-to-face, hybrid, distance and online modalities. Effective August 2022. 01-19-2000

**EDUC8059 – Models for The Teaching of Mathematics at The Secondary and Postsecondary Levels.**

*3 credits. Three hours of lecture per week.*

Study, analysis, and evaluation of teaching models used for teaching mathematics, with emphasis on the creation, preparation, and adaptation of learning material appropriate to secondary and postsecondary levels.

**EDUC8060 - Education as Science: A Critique.**

*Three credits. Three hours of lecture per week.*

Identifies the human image common to all the human and social sciences. Isolates the generic properties of that image and examines their implications for education. 10-10-94

**EDUC8065 - Linguistic Research Techniques in Education and In The Curriculum.**

*Three credits. Three hours of lecture per week.*

The linguistic research, its present diversification and applications to the pedagogical field. Special emphasis to the Puerto Rican reality. 10-10-94

**EDUC8066 - Public and Private Postsecondary Educational Institutions in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Historical development of public and private postsecondary educational institutions in Puerto Rico. Analysis of the diversity and types of postsecondary educational institutions in Puerto Rico in terms of their philosophy, administrative structure, educational programs, students services, type of faculty and fees. Finally, analysis of some of the central problems of these institutions. 10-10-94

**EDUC8067 - Economic of Public Education.**

*3 credits. Three hours of lecture per week.*

Study and analysis of the economics of public education and its effect on school finance, with emphasis on the perspectives and terminology of economic discipline.

**EDUC8068 – Non-Parametric Statistics in Educational Research.**

*Three credits. Three hours lecture per week Prerequisites: EDUC 6390 STATISTICS TO APPLY IN EDUCATION.*

Study of the statistical tests used when the dependent variables in educational research are categorical (nominal or ordinal) and the data is distribution free. The tests included deal with one, two or more dependent and independent samples. Practical experiences using computers are required.

**EDUC8069 - Law and Education.**

*Three credits. Three hours of lecture per week.*

The legal bases for public and private institutions at all educational levels in Puerto Rico, including applicable federal laws. The powers, duties, procedures related with financing, management of property, decision making, students, working conditions and other related topics, critical evaluation and future needs. 10-10-94

**EDUC8070 - Human Resources Development in Educational Organizations.**

*3 credits. Three hours of lecture per week.*

Study of conceptual, ethical normative, and empirical frameworks in the processes of recruitment, selection, development and evaluation of human resources capable of transforming educational organizations and promote a culture of peace. Analysis of the integration of technology in those processes. A minimum of fifteen hours of field experiences is required.

**EDUC8075 - Ethics and Education: From the Classical Era to Postmodernity.**

*Three credits. Three hours of lecture per week.*

A comparative study of antiquity to postmodernism and its implication for education. Examination of the ethical educational doctrines of Socrates, Plato and Aristotle. Analysis of the relation between ethics and religion that was formed in the medieval period. Exploration of the transition to the modern era with an emphasis on secularization and how it affects education. The philosophers from the modern period to be studied are Hume, Kant, Rousseau, Hostos, and Dewey. Study of contemporary trends with an emphasis on post-modern education.

**EDUC8076 - Survey Research.**

*Three credits. Three hours discussion per week Prerequisites: EDUC 6509 AND EDUC 6390.*

Study and development of survey research in education in which telephone, electronic, mail and in person surveys are considered. Emphasis on design of samples to represent populations, as well as instruments and procedures for data gathering and analysis, includes practical experiences, technology use and report writing.

**EDUC8077 - Axiological Perspectives: Absolutism and Relativism and Its Impact on Modern American Education.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6501, EDUC 6502.*

The topic studied in this course is the axiological problem in relation to education. The ethical position of the sophists versus the Socratic is analyzed as the first philosophical formulation of this problem in the western world. The axiological point of view of three modern philosophers Nietzsche, Sartre and marcel representing different positions on the subject of values, is also examined. Finally, the contemporary approaches to value education in North America are studied in the writings of Dewey, Adler, and the theory of cognitive ethic development of Kohlberg. 10-10-94

**EDUC8078 - Computer Telecommunications and Its Application to Education.**

*Three credits. Three hours lecture and discussion per week Prerequisites: EDUC 6055.*

Study of telecommunications using local and wide area networks. Evaluation of research studies, projects, and educational applications of telecommunications using computers. Analysis of ethical and legal aspects, current and other related topics. Course face-to-face and hybrid.

**EDUC8079 - Technology, Technique, Society, and Education.**

*Three credits. Three hours of lecture and discussion per week.*

Study of the relation between technology, society and education from the historical, philosophical and ethical perspective. Analysis of the impact of technology in education and its comparison with other professional fields, as well as the role of research in the integration of technology in education. Course face-to-face and hybrid.

**EDUC8080 - Constructivism: ontological, Epistemological and Axiological Perspectives and It Its Implications for Education.**

*Three credits. Three hours of lecture per week.*

Study of the backgrounds of various constructivism and their foundations on realism. The ontological, epistemological, and axiological principles of constructivism are examined. Analysis of the doctrines and their educational implications. Course may be offered in face-to-face, hybrid, distance and online modalities. Effective August 2022.

**EDUC8085 - Gerontological Counseling.**

*Three credits. Three hours of lecture per week.*

Intensive study of the literature and research finding in the field of human development, focusing on adulthood. Emphasis on the application of knowledge and skills to cases of citizen over 65 at home or in institutions. 10-10-94

**EDUC8086 - Knowledges and Gender: Implications for Education.**

*Three credits. Three hours per week*

Study of the social construction of gender from different theoretical and methodological approaches. Historical background of gender and women's studies, debates surrounding these studies, and research approaches from different fields of knowledge as they relate to education. Emphasis on the impact of gender and women's studies in education, especially in Puerto Rico, as well as its impact on research and educational practice. 08-01-03

**EDUC8087 - Teacher Preparation Program in Physical Education.**

*Three credits. Three hours of lecture and discussion per week Prerequisites: EDUC 6620.*

Study of the philosophical, theoretical and curricular foundations of teacher education programs in physical education. Comprehensive design and evaluation of teacher education programs in this area.

**EDUC8088 - Mixed Methods Research.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6400, EDUC 6513.*

Analysis and design of research that includes quantitative and qualitative aspects. The course starts with an epistemological analysis of mixed methods research. Special attention will be given to the conceptualization of research problems and the design. Also, research will be analyzed to illustrate different designs and identify their strengths and challenges.

**EDUC8089 - Critical Thinking and Education.**

*Three credits. Three hours of discussion per week.*

The most important reading materials on the theme of critical thinking are examined, analyzed and assessed. The first phase centers on the question of what critical thinking is. The second phase concentrates on the modern, objectivist doctrine. Here the central theme is whether we have the capacity to transcend our culture and history in order to attain an impartial, neutral viewpoint. The third and last phase deals with the postmodern contextualist perspective. In this section we consider the arguments that affirm that thought just as language, are relative to culture, language and the contingent mode in which both of these have developed.

**EDUC8095 - Comparative Education.**

*Three credits. Three hours of lecture per week.*

Analysis of various educational systems. Relationship between education and social development, as well as unsolved problems in comparative methodology. 10-10-94

**EDUC8096 - Organization and Administration of Post-secondary Guidance and Counseling Programs.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 8036, EDUC 8037 AND EDUC 8019.*

A critical analysis of the theory and practice of the organization and administration of human services in various settings, giving special attention to the secondary and post-secondary level. 10-10-94

**EDUC8097 - Counseling for Students with Special Needs.**

*3 credits. Three hours of lecture per week.*

Analysis of existing counseling models and its application for students with special needs. Development of counseling models targeting this population. The course will be offered face-to-face, hybrid, distance and online modalities.

**EDUC8098 - Analysis and Creation of Education Policies.**

*Three credits. Three hours of lecture per week.*

Study and analysis of the process, theories and methodologies for creating educational policies in organizations. Use of models to integrate research, the ethical aspect and financing in the deliberations, development and implementation and creation of transformative educational policies. Requires 15 hours of field experience.

**EDUC8105 - Internship in Curriculum and Teaching.**

*Six credits. Three hours of lecture and nine hours of laboratory work per week Prerequisites: DOCTORAL CANDIDATES.*

Doctoral students in curriculum and teaching will have the opportunity to demonstrate their competencies in curriculum development by applying the academic knowledge and skills previously learned. The role of students in this course will be that of consultant in specialized areas of the academic planning process. A seminar will be an integral part of this experience. 10-10-94

**EDUC8115 - Internship in Educational Leadership.**

*6 credits. Three hours of lecture and nine of laboratory work per week Prerequisites: ACCEPTANCE AS A CERTIFIED DOCTORAL CANDIDATE.*

Field experience for students specializing in educational administration. Students will have the opportunity to demonstrate competencies appropriate to an educational administrator by integrating and applying the theoretical knowledge and skills previously learned. The role of students in this course will be that of leaders and agents of change in an educational setting. A seminar will be an integral part of the internship.

**EDUC8116 - Educational Administration as a Philosophy in Praxis.**

*Three credits. Two hours of lecture and one hour of discussion per week.*

Philosophical bases of educational administration and leadership. Educational administration and leadership as a philosophy in praxis and science. Research on the contributions of historical philosophical approaches on the configuration of contemporary educational administration and leadership. Administrative and leadership praxis in the Puerto Rican educational scenario viewed from diverse philosophical frames. Educational administration and leadership as an ethical project.

**EDUC8117 - The Motivational Moment of Life Therapy (temomvi).**

*Three credits. Three hours lecture and three hours discussion per week Prerequisites: EDUC 6310 - PSIC 6005.*

Study of the motivational moment of life therapy (temomvi in Spanish) developed by Ramos-Melendez, (1990). The therapy procedural and conceptual aspects are thoroughly discussed in this course. Participants are exposed to the study of real or simulated cases. In addition, a critical and comparative analysis of this

therapy is included.

**EDUC8121 - Counseling Internship.**

*3 credits.*

Supervised field, creation or evaluation experiences in counseling to apply the knowledge, skills and dispositions under supervision.

**EDUC8122 - Seminar and Internship in Guidance and Counseling II.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 8121.*

Supervised field work in guidance and counseling in a setting and level of interest to the doctoral student. 10-10-94

**EDUC8127 - Organization and Administration of The Guidance and Counseling Programs at Preschool, Elementary, And Intermediate Level.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 8036 AND EDUC 8037.*

Critical study and analysis of the organization and administration designs and structure of the guidance and counseling programs at pre-school, elementary and secondary level which facilitate its effectiveness. 10-10-94

**EDUC8128 - Group Design in Guidance and Counseling.**

*Four credits. Three hours of lecture per week and thirty-six hours of workshop Prerequisites: EDUC 6360, EDUC 8035 AND EDUC 8019, OR PERMISSION OF THE PROFESSOR.*

Critical analysis of the theory and technology of group design and its application to guidance and counseling on the analysis of group effectiveness criteria as pivotal in the development of appropriate designs for different kinds of groups. Application of group design in situations and problems associated to education general terms. 10-10-94

**EDUC8129 - Institutional Evaluation, Assessment and Accountability in the Administration of Educational Systems.**

*Three credits. Three hours of lecture per week.*

Study of the theoretical perspectives and administrative practices to carry out institutional assessment of learning as an integral process. Analysis of different theoretical frameworks and formal models for institutional assessment and assessment of learning as an integral process. Analysis of different theoretical frameworks and formal models for institutional evaluation. Use of innovative methodologies to elaborate indicators of institutional competitiveness and social responsibilities in educational systems. Fifteen hours of field experience are required.

**EDUC8130 - Models of Teaching, Supervision and Evaluation of Programs of English as A Second Language.**

*Three credits. Three hours of lecture per week.*

This course is designed to examine in depth the theories and principles of the teaching of first and second language. Models of the methods and techniques for the teaching and supervision of ESL curricular development will be an integral part of the course study. It will also include the analysis and design of evaluation instruments for tesol. 10-10-94

**EDUC8135 - Seminar: Issues in Education.**

*Three credits. Three hours of lecture per week.*

Analysis of those issues faced by educational administrators in public and private educational systems in Puerto Rico and other countries. Although specific issues differ from one country to another, certain

common controversial areas can be identified, such as the social function of education, education and individual liberty, external influences on education, the aims of education, and the educator and his or her role in the educational process. 10-10-94

**EDUC8137 - The Teaching of History as A Dynamic Process.**

*Three credits. Three hours of lecture per week.*

Study of the interrelation of current events and personalities who impact humanity development, framed in a historic focus. Personalities are included as a historic modificative variable. Methodology and strategies to bring the events to an educational site are discussed, analyzed and modeled. The course requires an instant and continual revision. Face-to-face, hybrid and online. Effective for January 2021. 10-10-94

**EDUC8138 - Educational Implications of Historiography.**

*Three credits. Three hours of lecture per week.*

Study and analysis of new tendencies in historiography and their interrelation with education. Emphasis will be given to the importance of this field of study for the different social studies areas, mainly history. Face to face hybrid and online course. Effective for January 2021. 10-10-94

**EDUC8139 - The Education, History and Culture of Africa and Its People.**

*Three credits. One hour of lecture, one hour of discussion, and one hour of workshop per week.*

The study of education concerned with African history and culture, as well as the impact of black people on our society. An analysis of African problems throughout different historical periods and the current evolution of the continent. The impact of African history on Puerto Rico is discussed and analyzed, and education strategies for studying content in the classroom are considered. January 2001.

**EDUC8140 - Language Acquisition and Learning.**

*Three credits. Three hours of lecture per week.*

Intensive analysis and application of theories of learning and intellectual development, as proposed by Thorndike, Skinner, Piaget, Brunner, Bandura, and others, to the teaching and learning of English as a second language. The principles underlying language acquisition and learning will be an integral part of the course. Dependent and independent cognitive style and their implications for second language learning will also be included. 10-10-94

**EDUC8145 - Implications of Modern Linguistic Theories in The Teaching of English As A Second Language.**

*3 credits. Three hours of lecture per week.*

Study and analysis of linguistic school as: traditional, structuralism and transformational. Basic considerations of traditional grammar will be included. The impact of these grammar on the teaching of English as a second language will be the core of the course.

**EDUC8160 - Theory and Conceptualization on The Integrated Curriculum.**

*Three credits. Three hours of discussion per week.*

Study of the integrated curriculum philosophical and theoretical principles. Epistemological analysis of curriculum integration in the interdisciplinary, multidisciplinary, transdisciplinary and transversal modes. Examines the scope of curriculum integration for teaching and research.

**EDUC8165 - Planning, Design and Evaluation of Integrated Curriculum.**

*Three credits. Three hours of discussion per week Prerequisites: EDUC 8160.*

Design and analysis of the integrated curriculum components, the processes for the selection and organization of content, the teaching-learning strategies and the models of qualitative evaluation relevant to

the integrated curriculum modes according to the professional context where it will be implemented.

**EDUC8166 - Theories and Models of Instructional Design.**

*Three credits.*

In this course theories, instructional models, and the research literature that supports the body of knowledge of the field will be critically analyzed. Course hybrid.

**EDUC8167 - Curriculum Changes and Educational Transformations.**

*Three credits. Three hours of discussion per week.*

Study of the theories, emerging paradigms and models that explain curriculum changes and contemporary educational transformations in relation to social, cultural and technological changes. Analyzes the implications of these changes and transformations in educational settings. Considers the role of educators in the process of change and transformation.

**EDUC8169 - Planning and Implementation of Curriculum Projects.**

*Three credits. Three hours of discussion per week.*

Analysis of the principles and the models that guide the design, the implementation and the evaluation of curricular projects. Examines and researches the educational policy trends based on the principles and planning models that are integrated in the different levels of the curricular implementation process.

**EDUC8170 - Seminar: Curriculum Development.**

*Three credits. Three hours of seminar per week.*

Analysis of the different theoretical conceptions that guide the study of curriculum and its implications for the curricular and pedagogical research. Emphasis on interpretive and critical perspectives that distinguish the post-modern thought from the modern-scientific thought.

**EDUC8185 - Seminar on Emerging Topics and Issues in Physical Education.**

*Three credits. Three hours of conference per week.*

Research and analysis of emerging topics and controversial issues in the field of physical education in Puerto Rico and around the world from the perspective of the teacher as an agent of change in the classroom and an advocate of the physical education profession. The development of critical thinking will be promoted by taking a stand and proposing possible practical solutions to the various issues that arise at local and global levels. Face to face hybrid and online course. Effective for January 2021.

**EDUC8205 - Models of Teaching Literary Text Analysis.**

*Three credits. Three hours of lecture per week Prerequisites: EDUC 6280 OR EDUC 8029.*

Study of models of teaching that support traditional, structural, semiotic, and sociological techniques of literary analysis. Correlation of literary text analysis with knowledge and curricular experiences. Design of curricular materials to facilitate the development of literary analysis skills in students of Spanish at the secondary and post-secondary levels. 10-10-94

**EDUC8206 - The Teaching of The Spanish in Puerto Rico.**

*Three credits. Three hours of lecture per week.*

Documentary research and analysis of the methods used in the teaching of Spanish at the elementary, secondary, and post-secondary levels in Puerto Rico. Definition and analysis of problems related to the teaching of Spanish. Critical evaluation of theory and practice. 10-10-94

**EDUC8215 - Needs Assessment: Context Evaluation.**

*Three credits. Three hours of lecture per week.*

Study of the process of identification and analysis of needs in order to translate needs into goals, objectives and plans through the analysis of the gap between the actual state of a scenario, project or program and the desired state in the planning, design-implementation, and evaluation phases of educational systems. 10-10-94

**EDUC8235 - Seminar: Practices, Trends, And Issues in The Teaching of Mathematics.**

*Three credits.*

Study and critical analysis of special topics or of specific problems, trends, issues, and contemporary theory and practice in the area of mathematics education, with emphasis on secondary and post-secondary levels. Course face-to-face, hybrid and online modalities. 10-10-94

**EDUC8237 - Seminar: Research Themes in Mathematics Education.**

*3 credits. Three hours of seminar per week.*

Critical analysis of the latest research in the curriculum and teaching of mathematics and its educational implications.

**EDUC8245 - Interdisciplinary Study of Educational Topics.**

*1 credit. One hour and a half of lecture per week.*

Interdisciplinary study of educational and cultural topics product of an historical and intellectual thought. Includes the critical analysis of theories, concepts and the definition of problems, alternative and educational practices.

**EDUC8266 - Ethnographic Research.**

*3 credits. Three hours of lecture per week Prerequisites: ONE OF THE FOLLOWING COURSES*

Consideration of the theories and paradigms that support ethnographic research. Study of the strategies and techniques of ethnographic research as well as managing and analyzing information.

**EDUC8267 - Models of Qualitative Analysis.**

*3 credits. Two hours of lecture and one hour of laboratory per week Prerequisites: EDUC 6513 OR EDUC 8266.*

Study and application of models of qualitative research such as dramaturgical analysis, grounded theory, and Wolcott's dai model. Use of computer software for qualitative analysis and application of models of analysis to qualitative educational research data. Face-to-face, hybrid and online course.

**EDUC8268 - Seminar: controversial Issues and Ethical Aspects in Qualitative Research.**

*Three credits. Three hours of seminar per week Prerequisites: EDUC6400 OR EDUC6513*

In-depth study of the most relevant historical events of the regulations and international codes currently in force that emerged to protect participants in research in general and in qualitative research in particular. Critical analysis of the literature and development of competencies to work with controversial aspects and ethics in qualitative research.

**EDUC8305 - Sociology of The Scientific and Technological Knowledge: Educational Consequences.**

*Three credits. Three hours of lecture per week.*

Students and teachers look for the scientific and technological development from the perspective of science sociology, and its social impact. Both, analyze the socio-cultural fundamental of the natural sciences seen as substantial complement of the epistemology and the history of science and its educational consequences. They also study some of the controversial sociological meanings of the natural sciences and the technology, and some of the teaching-learning models for the design, of instructional lessons about the thematic content of the course. 13-08-02



**EDUC8308 - African Presence In Puerto Rico: Impact On Education.**

*Three credits. Three hours of conferences per week.*

Study concerning the origin and development of the African presence in Puerto Rico. Critical analysis and study in made of its role and contributions of the national identity to Puerto Rican customs and traditions, to politics, economy, education, communications media, to the arts, theater, music, dance, literature and religion. The development of racial identity and "bleaching" is studied, and emphasis is made on racial relationships, racism, oppression, exclusion and the marginalization that can emerge from them, as well as its impact on the Puerto Rican society 21 century. The course is framed within all the levels of educational research, the analysis and awareness of the African roots and of the racial issues which has an influence on the educational system of Puerto Rico.

**EDUC8309 - Curricular Impact of The Africa Geography.**

*Three credits. Three hours of lecture per week.*

Study about the geography of Africa and its curricular implications in order to compare African and Puerto Rican reality. Students will do research and design pertinent curricular strategies. This course will emphasize the use of interdisciplinary methods. (c)

**EDUC8340 - Theory of Measurement II.**

*3 credits. Three hours discussion per week Prerequisites: EDUC6340*

Study of item response and generalization theories, and other models for analyzing test results. Focus on the application of these theories in the development of measurement instruments and the interpretation of the results. Includes the use of computer programs for performing item and test analysis.

**EDUC8405 - Curriculum Design in Physical Education.**

*Three credits. Three hours of lecture per week.*

Analysis of the theoretical foundations of curricular design in physical education and the different types of curricular frameworks. Research and evaluation of diverse curricular models and practices. This course takes into consideration the diversity and needs of specific population for curriculum design face to face hybrid and online course. Effective for January 2021.

**EDUC8900 - Candidacy Examination.**

*Zero credits.*

Doctoral exam is requisite for graduate students. Is considered full time for the students.

**EDUC8981 - Doctoral Dissertation.**

*Six credits. Prerequisites: TO HAVE APPROVE THE EXAMINATION OF DOCTORAL DEGREE.*

Preparation of the doctoral dissertation, giving emphasis to the proposal and to the study of the general procedures to write a doctoral dissertation.

**EDUC8982 - Continuation of Doctoral Dissertation.**

*No credits. This course can be repeated three times Prerequisites: ALL THE CONDUCIVE COURSES TO DEGREE IN THE SPECIALTY ARE I COMPLETE COURSE THAT TAKE THE STUDENT HAVE PASS DEGREE.*

Continuation of doctoral dissertation giving emphasis to the implantation of the research study and to the preparation of the dissertation.

**EDUC8995 - Directed Specialized Study.**

*One to 3 credits. One to three contact hours Prerequisites: AUTHORIZATION OF THE DEPARTMENT.*

Exploration of special topics or problems of particular interest to groups of graduate students under the direction of a faculty member or visiting professor. This course may be taken up a maximum of nine credits.

**EING6020 - Teaching Methods for Bilingual Education.**

*Three credits.*

The course is designed to provide teachers with various different approaches and teaching methodologies to make their content area classroom one that fosters bilingualism. Reviews of historical approaches to bilingual education and theories of second language acquisition will be covered. The course emphasizes the relationship between planning, teaching, evaluation, and student motivation in the implementation of content and language integrated learning (clil) and sheltered content instruction. This course can be offered in face- to-face, hybrid or online formats.

**EING6420 - Advanced Methods for the Teaching of Oral English to Speakers of Other Languages.**

*Three credits. Two hours of lecture and two of laboratory work per week.*

Intensive readings and discussion of the basic principles related to the teaching of oral English to speakers of other languages; application of these principles to the teaching methodology and the use of materials at various levels; comparison and contrast of the phonology of American English and Puerto Rican Spanish; identification of the linguistic problems confronted by Puerto Rican students. Reevaluation of present practices, emphasizing the development of productive use of language. Face-to-face, hybrid and online course. Effective for January 2021. 10-10-94

**EING6565 - Advanced Seminar: The Principles of the Teaching and Learning of English as a Second Language.**

*3 credits.*

Overview of the historical perspective of teaching English in Puerto Rico. In-depth study of the theoretical foundations of second language learning and teaching. Critical examination of the trends and methods in second language instruction to explore how theories of second language acquisition and learning relate to the practice of teaching in formal contexts. Discussion and analysis of the English as a second language methodology currently used in the public schools of the island from the perspective of the current trends and the socio-linguistic needs of Puerto Rican students. Research on issues related to second language teaching and learning is required. This course will be offered in face-to-face, hybrid, and online formats. New description in January 2020.

**EING6566 - Seminar in Curriculum, Instruction and Evaluation in the Secondary School English Program.**

*Three credits. Three hours of lecture per week Prerequisites: EDEN 6565.*

The design and evaluation of a course of studies for the teaching of English in public or private schools similar to those where the students have taught or are likely to teach. The evaluation of student achievement in terms of the curricular goals of the school district and the individual aims of the members of the experimental class selected. Student practice. Face-to-face, hybrid and online course. Effective for January 2021. 10-10-94

**EING6570 - Bilingual Education: Theory and Practice in Bilingual Education.**

*3 credits. Three hours of lecture per week.*

Introduction to bilingualism, bilingual education, and the nature and needs of students in bilingual programs. Emphasis is given to the theories and methods of bilingual and English language development instruction. ESL and bilingual program models, methods, materials, and assessment are critically examined. Historical, legal, and theoretical bases of bilingual approaches are studied. General bilingual education issues and political and multicultural perspectives are critically examined. Analysis of linguistic, psychological, sociological, and instructional implications of bilingualism, with emphasis on Puerto Rico. Research on issues related to bilingual education is required. This course will be offered in face-to-face, hybrid, and online formats.

### **EING6575 - Methods for Teaching Grammar and Composition in Modern English: techniques and Materials.**

*3 credits. Three hours of lecture per week.*

Examination and discussion of the various theoretical orientations in teaching grammar and writing and their practical application to the teaching of English as a second language. Overview of linguistic theories, discussion of schools of thought in second language acquisition and learning, and analysis of issues concerning the teaching of grammar and composition. Form-focused instruction, the reading-writing relationship, the writing process peer revision the use of technology in writing instruction and in composing, and issues in ESL writing assessment are studied. Emphasis on the demonstration of teaching techniques, experiences in microteaching, and the application of metacognitive skills to improve writing. Research on issues related to teaching grammar and composition required. This course will be offered in face-to-face, hybrid, and online formats.

### **EING6577 - The Methodology of The Teaching of Contemporary English Literature: Principles Methods and Contents.**

*Three credits.*

The purpose, content, and the strategies of classroom instruction. Values emerging from the study of contemporary English-language literature (drama, poetry, and fiction) will be assessed. Representative works by Arthur Miller, Eugene O'Neill, Tennessee Williams, T. S. Eliot, Robert Frost, Ezra Pound, Ernest Hemingway, John Steinbeck, and Herman Wouk will be read and analyzed. Attention will be given to the development of the skills needed to understand and appreciate literature. Philosophical principles, teaching practices, new resources and current related experiments will be investigated and appraised. The work will include regular individual conferences, group discussion, and a research paper. The student will be active and creative participant. He will be encouraged to work on some comprehensive problem in which he is interested. Face-to-face, hybrid and online course. Effective for January 2021. 10-10-94

### **EING6601 - TESL Seminar for Research and Projects.**

*Three credits. Two hours of research and one of seminar per week*

The study of theoretical foundations and research methods used within the field of teaching English as a second language. Students will conduct a research study related to their interests in the field of TESL. The work completed is equivalent to the exit requirement for the M. Ed TESL and the course is equal to full-time status for enrolled students. Face-to-face, hybrid and online course. Effective for January 2021. Change of grades as ps, pn, pb begins on b92

## **GRADUATE SCHOOL OF PLANNING**

### **PLAN6001 - Introduction to Planning Theory and Practice.**

*One credit. One hour of a lecture per week.*

This course offers an introduction to planning theory for practitioners. It covers the basic theoretical approaches to planning as a decision-making process, as well as its impacts on society and territory. The seminar includes an ethical perspective on planning and the role of the planner, based on a case study approach on recovery after disasters. The student has the opportunity to apply planning theory to real, contextual situation related to what is a planning problem: the role planner; stakeholders involved; goals of decision-makers; and making planning recommendations. The course will be offered in four modalities: presentational, hybrid, at distance and online.

### **PLAN6002 - Disaster Planning Theory.**

*Three credits. Three hours of lecture per week.*

The purpose of the course is to introduce students to principal theoretical tools for disaster reduction. It exposes the students to emergency management operational frameworks, as well as to the dynamic, complex, and exponential properties that characterize emergency management; to the determinants of risk; and to the social production of the disaster impacts. The course will be offered face-to-face, hybrid at distance and online.

**PLAN6003 - Natural Hazards and Risks.**

*Three credits. Three hours of lecture per week.*

The course focuses on providing the student with basic knowledge about the origin, processes, occurrence and spatial distribution of natural hazards and risks such as earthquakes, tsunamis, hurricanes and tropical storms, extra tropical cyclonic systems, floods (rivers and coastal), landslides, storm surge associated with extra tropical events, droughts, coastal erosion, among others. Emphasis will be given to understanding the challenge of climate change bio climate\ occurrence of extreme events and how these affects the physical and social vulnerability of a geographical area. This course will be offered face-to-face, hybrid at distance and online.

**PLAN6004 - Research Methods for Disaster Planning.**

*Three credits. Three hours of conference per week.*

This course introduces the student to the application of methodological tools and planning techniques that support disaster reduction, including quantitative, qualitative, and mixed methods. The course is divided in three modules: 1) mitigation and preparedness techniques, 2) spatial dynamics analysis techniques, 3) post-disaster planning techniques. This course will be offered in four modalities: presential, hybrid, at distance and online.

**PLAN6005 - Summer Planning Internship.**

*PLAN6005 - Summer Planning Internship. Prerequisites: ONE TERM OF GRADUATE COURSES IN THE SCHOOL OF PLANNING.*

Practical experience in the planning office of an approved agency, under the direction of a professionally qualified supervisor. The student will be required to report on his or her experience; employers will comment on the student's work.

**PLAN6006 - Planning Internship.**

*Three credits. Ten hours of internship per week Prerequisites: A MINIMUM OF 24*

Supervised professional practice of planning which provides the student the opportunity to apply in a workplace the conceptual and theoretical know- ledge acquired in the master program. The field experience is developed in government agencies at the federal, state or municipal levels public or private corporations or non-governmental organizations. The course requires a minimum period of ten hours per week. The student is supervised by the course instructor and a professional who represents the workplace. Periodic meetings are scheduled between the student and the instructor to discuss the internship experience. Course offered presential, hybrid and online. Effective for August 2020.

**PLAN6013 - Planning of Economic Systems.**

*Three credits. Three hours of lecture per week Prerequisites: PLAN 6076*

Basis theoretical knowledge about the behavior of aggregate or institutional economic systems, essential for the study of planning. Topics discussed in lectures and readings include microeconomic and macroeconomic models. The relationship between real and financial resources is analyzed both at the corporate and the aggregate scale. The planning role of management in corporate systems and the formulation of fiscal and monetary public policy fits in the economic models used as tools of conceptualization and analysis. (core course for the economic planning specialization. 16-08-99

**PLAN6015 - Urban and Spatial Theory.**

*Three credits. Three hours of lecture per week.*

Space as a system with sub-systems and components.

**PLAN6016 - Urban Reality, Perception, and Image.**

*PLAN6016 - Urban Reality, Perception, And Image. Prerequisites: PLAN 6501-02 OR PERMISSION OF THE INSTRUCTOR.*

Discussion of the dynamic interaction of man and his urban environment. Inventory and analysis of the urban landscape and its various components. Discussion of perceptual processes and mechanisms used to form urban images. Role of cultural and other values in the structuring and evaluation of urban images. The main components of urban images. Their utility for urban planning special characteristics of the Puerto Rican urban environment as it really is, as it is perceived by its users, and as it is described in images. Their role as basic guides for the urban design and planning to be carried out in Puerto Rico.

**PLAN6017 - Economic Theory.**

*Three credits. Three hours of lecture per week.*

Economic theory as a method of analysis. A survey of the language of this social science. Issues and ideas of major relevance to planning, such as ordinal and cardinal utility, the law of variable proportions, and the relation of these concepts to the production function. The economic system is presented through a model of economic change based on the concept of stages of economic growth. 10-10-94

**PLAN6020 - Introduction to Geographical Information Systems for Planning.**

*Four credits. Three hours of lecture and two of laboratory work per week Prerequisites: PLAN 6019 OR ITS EQUIVALENT.*

Use of geographical information systems for planning which store data of natural resources, infrastructure, and socioeconomic characteristics, referenced to spatial coordinates. 10-10-94

**PLAN6025 - Students and Faculty Seminar.**

*One credits. Two hours of lecture per week.*

This seminar provides the opportunity for a serious exchange of ideas and experiences between the faculty and graduate students. Topics will vary, but will emphasize current research, new theoretical concepts and frameworks, and difficult concrete problems in planning. 10-10-94

**PLAN6027 - Squatter Settlements and Urban Development.**

*PLAN6027 - Squatter Settlements and Urban Development.*

A study of squatter settlements as they relate to national urban and rural development policies, especially in developing countries. An evaluation of resources, information, and policy.

**PLAN6028 - Advanced Urban Analysis.**

*PLAN6028 - Advanced Urban Analysis. Prerequisites: PLAN 6502 AND 6509.*

Advanced techniques and methods for analyzing the urbanization process and for preparing urban development plans. Techniques for land use; housing, transportation, and environmental studies; cost/benefit analysis; analysis of alternatives; patterns of urban growth. Methodology used in determining space requirements for various social and economic activities in urban areas.

**PLAN6029 - Urban Design in The Caribbean: History, Typology, And Structure.**

*PLAN6029 - Urban Design in The Caribbean: History, Typology, And Structure.*

Historical and typological analysis of urban development in the Caribbean. Emphasis on the economic,

demographic, social, and cultural factors which have significantly affected urban growth in the Caribbean. A typology of Antillean cities will be developed, on the basis of their architectural, educational, plastic and dramatic-arts, and religions composition.

**PLAN6030 - Transportation and Land Use.**

*PLAN6030 - Transportation and Land Use. Prerequisites: PLAN 6502.*

A thorough analysis of the relationships between land use and trip generation. Study of models and techniques for planning transportation systems. Basic design elements and characteristics of various transportation systems.

**PLAN6037 - Urban Design**

*PLAN6037 - Urban Design.*

The three-dimensional design of specific development projects within the context of general planning policy. Problems may involve such topics as new developments which expand an existing urban area; totally new town; renewal on a large scale with various kinds of buildings and land use; or a detailed civic code study. Intensive laboratory work.

**PLAN6038 - Economic Analysis.**

*Three credits. Three hours of lecture per week.*

An exhaustive and critical examination of macro and microeconomic theories especially as they relate to economic development. 10-10-94

**PLAN6039 - Economic Analysis.**

*PLAN6039 - Economic Analysis.*

Thorough critical examination of macro-and micro-economic theories, especially as they relate to economic development.

**PLAN6040 - Advanced Economic Development.**

*Three credits. Three hours of lecture per week Prerequisites: PLAN 6016*

An advanced examination of the theories and problems of economic development in the light of a deeper insight into and application of economic analysis. A thorough evaluation of most significant cases of development as the basis for establishing a theory of economic development. 10-10-94

**PLAN6041 - Management for Development.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: PLAN 6076 AND 6510. CO-REQUISITES*

Lectures, readings, and analysis of case studies on a global scale on management of natural and financial, resources, self-sustainable development, the study of the literature on the post-industrial era, and on concepts on finance and risk management. Explanations of a strategy to modernize certain economies in which the state has played a similar role, in its importance and similar certain characteristics to the agrarian sector, as one with a large potential of hidden savings. 16-08-99

**PLAN6046 - Development Projects.**

*PLAN6046 - Development Projects.*

The preparation, presentation, and evaluation of development projects. Relationship to and influence on sectoral and global economic plans. Technical and commercial feasibility.

**PLAN6047 - Fiscal and Financial Planning.**

*PLAN6047 - Fiscal and Financial Planning.*

Main theoretical elements related to the influence of the budget as a whole, and of the principal types of taxes and subsidies, upon the allocation of real and financial resources to various kinds of consumption and investment, both domestic and foreign. The essentials of monetary and banking theory, the main characteristics of actual budgetary processes and financial institutions. The application of theory and the use of institutions in realistic fiscal and financial programming and planning. Discussion and lectures will be complemented by practical, step by step, exercises.

**PLAN6048 - Location Theory.**

*PLAN6048 - Location Theory.*

Study of the general theory of location and its variants as they are applied to various economic sectors. Applied studies of the theory at the national, regional, and firm or project level.

**PLAN6050 - Techniques of Analysis and Programming in Regional Planning.**

*PLAN6050 - Techniques of Analysis and Programming in Regional Planning.*

Analytical techniques that have been utilized in regional and spatial analysis. These techniques can be divided into two large groups: those derived from the study of geographical phenomena, and those that are modifications of techniques developed for the study of social and economic factors in a non-spatial context. Such techniques as input-output programming, gravity, and potential models are emphasized.

**PLAN6055 - Agricultural Economic Analysis.**

*PLAN6055 - Agricultural Economic Analysis.*

Application of economic principles to production and marketing problems in agriculture. Management and economic analysis in agriculture; decision processes in the firm and in the household vis-a-vis production and consumption; principles of price determination, institutions that affect agricultural policy, and political-economic problems in agriculture.

**PLAN6056 - Agricultural Economy.**

*PLAN6056 - Agricultural Economy.*

The most important variables influencing the process of agricultural development, including the biological of the process of agricultural; the farmer and his attitudes; land and tenancy; the farm business; agricultural credit; marketing; technological change; local availability of advice, incentives, and education; community development, cooperatives, and agricultural planning.

**PLAN6057 - Agricultural Planning.**

*PLAN6057 - Agricultural Planning.*

Analytical study of agriculture as a sector of the national economy, considering the problems of its various sections and regional spatial variations. Study of programs and of research dealing with the productive, economic, and commercial phases of this field.

**PLAN6059 - Spatial Decision Support and Policy Evaluation Systems.**

*Four credits. Two hours of lecture, one of discussion and 2 of lab, per week*

Conference, discussion and laboratory on the theory and practice of decision support systems designed for the evaluation of territorial policy and decision making. The students will mainly examine "xplorah", the system developed by the graduate school of planning used for territorial planning in Puerto Rico.

**PLAN6060 - Industrial Development and Planning.**

*PLAN6060 - Industrial Development and Planning.*

Structure and behavior of industry, its location, organization and governance, efficiency, and development. Emphasis on area relations, associations, and processes operating in particular places to produce

industrialization. The problems of small-scale industries in developing countries.

**PLAN6065 - Social Policy.**

*PLAN6065 - Social Policy.*

Critical analysis and operational formulation of public policy, as related to social problems faced by developing countries in general and Puerto Rico in particular. Operational aspects will be studied, with a view toward defining the social indicators of public and private performance that allow objective evaluation and control of current public policies. Prevention, control, and rehabilitation aspects of social problems, and their operational effect on public policy.

**PLAN6067 - The Planning of Health Services.**

*PLAN6067 - The Planning of Health Services.*

Description of health services generally utilized by communities; their content, organization, and operation; planning as related to health services. Consideration of prevalent methodology for measuring needs and resources, determining priorities, financing and organizing. A study of current trends in the operation and evaluation of health services. Lectures, group discussions, and field visits.

**PLAN6068 - Advanced Readings in Planning.**

*PLAN6068 - Advanced Readings in Planning.*

Special course for students wishing to pursue more advanced studies in topics or areas of their interest. Topics will vary according to the needs, interests, and availability of students and staff. Student must have permission of the director of the program. Course offered presental, hybrid and online. Effective for January 2021.

**PLAN6070 - Techniques of Social Planning.**

*PLAN6070 - Techniques of Social Planning.*

Study of techniques and methods for planning social services such as cost-benefit analysis, human resources analysis, and clientele analysis.

**PLAN6075 - Research Project II.**

*PLAN6075 - Research Project II. Prerequisites: PLAN 6080.*

Special course for students wishing to pursue more advanced studies in topics or areas of their interest. Topics will vary according to the needs, interests, and availability of students and staff. Student must have permission of the director of the program.

**PLAN6076 - Planning History and Theory.**

*3 credits. Three hours of lecture per week.*

The course examines the historical development of planning in Puerto Rico and the United States, Latin America and Europe and evaluates its results. It presents the main theoretical debates of the planning discipline within its historical frame. It also evaluates planning theories as a method that applies knowledge to action to solve society's problems whether they are economic, social, urban and/or environmental in nature, under conditions of certainty, uncertainty, risk and ambiguity. It introduces the concepts of general interest and public interest as well as the central axes of the program: development and territory, highlighting its current relevance. Course offered presental, hybrid and online. Effective for January 2021.

**PLAN6077 - Institutional Frameworks and Implementation Processes.**

*3 credits. Three hours of lecture per week.*

This is the sequel to planning theory (plan 6076). It examines the aspects of action and implementation of policies and plans corresponding to the intervention process. Analysis of types of plans and planning tools,



the major state and federal laws that institutionalize planning at the central and municipal level, and the rights and powers of the agencies. Study of political and market forces that affect the decision-making process in organizations and the viability of interventions. It includes the study of mediation strategies that articulate the facilitating consensus for the intervention through plans. Discussion of the professional planner's role in society and the code of ethics that guide planning.

**PLAN6078 - Social Theory and Theory Systems.**

*Three credits. Three hours of lecture per week.*

An analysis of social theories with particular emphasis on views derived from contemporary sociology. The analysis of three aspects of contemporary social theories: a) the delineation of a problem area as the empirical prerequisite; b) the correspondence between theory and methodology in the social sciences; and c) the structural elements and functional attributes of social and cultural systems, such as personality, kinship, social stratification, power, and values-norms. Puerto Rican society will provide the frame of reference for the analysis of these systems. 10-10-94

**PLAN6079 - Development Planning.**

*Three credits. Three hours of lecture per week.*

The concepts and problems of development, with special emphasis on the industrialization, urbanization, and socialization processes. Development plans their main elements, objectives and characteristics and the implementation problem in different countries. Techniques for the formulation of development plans and their evaluation. 10-10-94

**PLAN6080 - Research Project I.**

*PLAN6080 - Research Project I.*

Special course for students wishing to pursue more advanced studies in topics or areas of their interest. Topics will vary according to the needs, interests, and availability of students and staff. Students must have permission of the director of the program.

**PLAN6089 - Urban and Territory Planning.**

*Three credits. Three hours of lecture per week Prerequisites: PLAN 6076*

An introductory course in spatial concepts of planning, urban design and public policies on territorial organization. It examines the structure of cities and the historic and contemporary forces that have shaped its present form. It examines the urbanization processes, by taking into account the agents that intervene in shaping the city. It presents models of analysis and theories that help understand the formation of built spaces and the public policies that attempt to manage the processes. Class discussions will give special attention to the insular nature of our territory and to implementation strategies that are adequate for this reality. Course offered presental, hybrid and online. Effective for January 2021. 20-01-99

**PLAN6095 - The Planning of Energy Policy.**

*PLAN6095 - The Planning of Energy Policy.*

Application of analytical and planning methods to the management and use of energy resources. Technical aspects of energy generation and distribution technology and their implications to cost and environmental quality. Aspects of planning an energy policy for Puerto Rico within an international context of scarcity, energy use, conservation, and productivity.

**PLAN6096 - Social Analysis and Policies for Planning.**

*Three credits. Three hours of lecture per week Prerequisites: PLAN 6076*

Study of the nature and functioning of the welfare state in societies with a market economy, and present restructuring through private firms, self-management and community action. Examines social policy goals

and indicators for attaining greater welfare and superior quality of life, security, equity and community solidarity, as well as their instrumental use for economic development, modernization, and citizen participation in planning processes. Methods and techniques of analysis of social policy are used. 20-01-99

**PLAN6097 - Economic Analysis and Policies for Planning.**

*Three credits. Two hours of lecture and one of discussion per week Prerequisites: ECONOMY UNDERGRADUATE COURSE CO REQUISITE*

Basic tools of micro and macro-economics and their application to specialized areas of planning: urban-territorial, environmental, and social. Special emphasis is placed on application of economic analysis for attaining social wellbeing, for land use planning and environmental and natural resources impacts, in the present globalization context. 20-01-99

**PLAN6098 - Environmental Economics for Planners.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PLAN 6097.*

Conference and discussion for master planning students on the configuration of economic incentives that may improve or worsen environmental conditions. Human behavior in its natural environment will be studied, focusing on the economic restructuring necessary to avoid deforestation, erosion, desertification, salinization, and loss of biological and genetic diversity. To achieve an equilibrium between environmental impacts and economic institutions, possible public policy and institutional changes will be discussed, considering human needs in the context of a broader ecosystem. Various analysis tools will be applied to understand why there is environmental degradation, its consequences and possible measures to reverse it. .

**PLAN6105 - Regulatory and Public Policy Instruments for Disaster Planning.**

*Three credits. Three hours of lecture per week.*

The purpose of this course is to provide the student with an overview of regulatory frameworks and public policy instruments that impinge upon governmental decision-making before, during, and after disasters. The course covers the progression of disaster-related policy and the analytical tools that may inform governmental decision-making in disaster reduction planning and management. It emphasizes key emergency management policies and procedures, and how they inform mitigation decisions, and ultimately, the experiences of those affected by disasters. Students will be introduced to fundamental municipal, national and federal policies and documents. The course will be offered in four modalities: face-to-face, hybrid, at distance and online.

**PLAN6106 - Introduction to Critical Infrastructures Systems.**

*Three credits. Three hours of lecture per week.*

This course will provide a critical and comprehensive look to critical infrastructure in all its complexity, including essential services for citizens, such as drinking water food, medical resources, sanitary services, electricity, transportation and telecommunications, among others. The overview includes an analysis of waterfall failures, independencies, social dimensions and governance, as institutions that govern from the perspective of disasters. The course will be offered face-to-face, at distance and online modalities.

**PLAN6107 - Development and Social Vulnerability.**

*Three credits. Three hours of lecture per week.*

This course provides the student with the opportunity to understand the study of social vulnerability and its importance for disaster reduction planning. The course examines how people have differentiated experiences in disaster situations; elaborates on hoe different groups build on their capacities to promote resilience; and discusses how planning can reduce social vulnerability to disasters. The course will be offered presential, hybrid, at distance and online.

**PLAN6108 - Professional Seminar.**

*One credits. One hour of seminar per week.*

The seminar offers lessons learned by professionals from the government, academy and community and third sectors. The themes to be discussed include development and creation of new risks; sociocultural competencies for a comprehensive management of disaster risks; challenges and solutions regarding interagency coordination, collaboration and communication; management of consulting and recovery projects; development of disaster adaptation, mitigation and recovery plans; and risk and awareness communication, among others. The purpose of the seminar is to expose students a deep and discussion about aspects of post disaster development, creation and mitigation of hazards; and the reduction of the causes and dynamic pressures that create unsafe conditions and disaster risks. The seminar will be offered in four modalities: presential, hybrid, at distance and online.

**PLAN6110 - Migration and Marginality.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: FOR M.A. PROGRAM STUDENTS.*

A critical reinterpretation of current migrant theory with particular emphasis on the analysis of "repetitive" and "critical" population movement from, as well as within, and to the Caribbean. Within this context particular attention will be given to the concepts of identity and community among Puerto Ricans, not limited to the geographical boundaries of the island. Attention to the social analysis, policy formulation and planning with due recognition of the central importance in modern society of population mobility. Theoretical paradigms beyond demographics theories are problematized, with particular attention to the issues of marginality as they relate to the concepts to community, nation and identity. 21-01-97

**PLAN6115 - Scenario Construction and Long-range Planning.**

*PLAN6115 - Scenario Construction and Long-range Planning.*

Examination of alternative methods of constructing scenarios as an instrument for long-range forecasting. Various techniques for constructing these scenarios will be examined, including delphi and mathematical models. The use of scenarios in the long-range forecasting of technological change and other variables will also be examined, as well as case studies in which these techniques are used in planning.

**PLAN6116 - Seminar: Planning Law.**

*PLAN6116 - Seminar: Planning Law.*

The legal and administrative background of planning in Puerto Rico, with law and other forms of regulation seen as a principal instrument for controlling and channeling land uses. Zoning, subdivisions, flood prone areas, historical zones, neighborhood facilities, and certification. Course offered presential, hybrid and online. Effective for January 2021.

**PLAN6117 - Computer Applications in Planning.**

*PLAN6117 - Computer Applications in Planning.*

Computer applications to elements of the planning process, including description, analysis, preparation and evaluation of alternatives. Accounting software for regression, modeling, and spatial interaction. This course could be offered up to 25 percent of the time using remote resources. This course could be offered up to 25 percent of the time using remote resources. Course offered presential, hybrid and online. Effective for January 2021.

**PLAN6118 - Needs Assessment and Client Analysis.**

*PLAN6118 - Needs Assessment and Client Analysis.*

Examination of alternative needs assessment and client analysis models for community planning. Human service planning models, pre-assessment activities, including determination of the information needed,

methods of collecting information from primary and secondary sources, and techniques of information analysis, communication of findings.

**PLAN6125 - Analysis of The Impact of Public Projects.**

*PLAN6125 - Analysis of The Impact of Public Projects.*

The social factors in project and program evaluation as they affect planning and policy making. Discussion of the conceptual and empirical aspects of social impact assessment at the institutional, community, and personal level; the distributional or equity effects of proposed or existing identifiable programs, projects, plans or policies.

**PLAN6135 - Society, Environment and Planning.**

*Three credits. Three hours of discussion per week.*

Study about how human society and nature shape each other over time and the implications of these interactions for planning. Using political ecology and environmental history approaches, three central themes are examined: (1) origins and history of cultural values about nature, (2) the role of science defining environmental problems and producing images of nature for environmental analysis and regulation, and (3) the political context of environmental intervention (public policy and planning) and social struggles over environmental issues as well. Course offered presential, hybrid and online. Effective for January 2021. 08-16-99

**PLAN6485 - The Planning of Social Services.**

*PLAN6485 - The Planning of Social Services.*

Theory, practice, and problems in the planning of social services, and methods currently in use. Both advanced and less-advanced societies will be considered, and the major social services to be examined will be education, health, social security, housing, public order, and recreation. A comparison between the social-service policies of several countries and those of Puerto Rico.

**PLAN6501 - Principles of Planning I. Credits: 3. Prerequisite: Arch.**

*4012. credits.*

Basic theories of planning and of urban origin, development, and structure interaction of socio-economic, political-administrative, and physical factors in the planning process; roles of the various professions and their contributions to the implied teamwork of planning; ideal or utopian cities; inventory, analysis, and synthesis of urban problems and solutions; urban subsystems; historical development of planning, with special emphasis on the case of Puerto Rico.

**PLAN6502 - Principles of Planning II.**

*PLAN6502 - Principles of Planning II. Prerequisites: PLAN 6501.*

Basic concepts of spatial and urban systems; the urbanization process; urban development policies; theories and models of regional and national location; the region and its planning; the environment as a system; differences and complementariness between architecture, urban design, and urban planning; systematization of design methods; institutionalization of urban design, public policy and the urban form and structure.

**PLAN6505 - Urban Environmental Quality and Urban Forms.**

*PLAN6505 - Urban Environmental Quality and Urban Forms. Prerequisites: PLAN 6016.*

Discussion of the principles and techniques of urban design and environmental psychology. Use of urban design techniques in identification, analysis, and measurement of the quality of the urban environment--- both the components of that environment and its totality as experienced by its users, by those engaged in its design, and by civic and government leaders. Urban design as a synthetic discipline whose techniques allow

the formulation of alternatives in urban planning and urban environmental-quality control. The use of surveys, inventories, data-collection, and graphic presentations in urban design problems.

**PLAN6506 - Theories of Change and Development.**

*Three credits. Three hours of lecture per week.*

Theories of social change and the development of Puerto Rican society. Analysis of discrepancies that affect change; possibilities affecting these through public policy; and governmental and private action to pursue different patterns of change and development promotion. 10-10-94

**PLAN6508 - Seminar: Advanced Urban Design.**

*PLAN6508 - Seminar: Advanced Urban Design. Prerequisites: PLAN 6016 AND 6505*

Specific topics in urban design, taking design as a basic component of the type of urban planning that must be done in Puerto Rico. Topics may include urban design, land use and the urban master plan; "new towns"; future urban lifestyles and form; urban design and Puerto Rican cultural, psychological, and physiographic parameters.

**PLAN6509 - Workshop in Planning Analysis and Techniques.**

*Four credits. Three hours of lecture and three hours of laboratory work per week.*

Tools and techniques for obtaining, analyzing, projecting, and communicating data. Presentation techniques, statistical analysis, demographic studies, national social accounts, economic and employment surveys and projections and physical planning studies. The use of computers and models in planning. 10-10-94

**PLAN6510 - Workshop on Methods for Diagnosis, Prognosis and Programming.**

*Three credits. Three and a half hours of laboratory work and one hour of lecture per week Prerequisites: PLAN 6076 AND PLAN 6019. CO-REQUISITE*

Techniques of statistical analysis, projection and prognosis, simulation methods of analysis of social dynamics. A practical approach is used through the application of games and the intense use of resources from the pier Luigi Caldari computing center. Students learn to elaborate scenarios for evaluating alternative futures, through simulation models and role playing. Students undertake a group work situation that simulates a professional experience in which they apply programming and project administration techniques. Special emphasis is placed in learning writing techniques for clear communication of ideas and arguments. 20-01-99

**PLAN6513 - Seminar: Proposal for Planning Project.**

*Three credits. Three hours of seminar per week Prerequisites: APPROVAL OF THE MEDULAR COURSES.*

Discussion of the content and requirements of the planning project. Develop the theoretical and methodological framework of the project. Written presentation of the proposal for the planning project. 20-01-99

**PLAN6525 - Urban Structure.**

*3 credits. Three hours of lecture per week Prerequisites: PLAN 6089. Corequisites: PLAN 6528.*

The course offers an integrating experience of theory and practice in a workshop format in which students apply urban and regional planning analysis techniques, to examine the morphology, order and qualities of urban space and its inhabitants, including geographical, sociological, economic, functional, and technological factors that affect urban related suburban and rural areas in cities and regions. An ecological approach is used to understand what is the combination of forces that affect the growth and organization of these areas through a team project. The workshop seeks to train the student through constant action-reflection sequences during weekly group meetings with the professor, a client and other planning professionals in virtual as well as face-to-face interactions. The workshop format requires that students be proactive in their

work, and likewise, they should take advantage of face-to-face and virtual meetings to discuss the progress of teamwork. This course will be offered face-to-face, hybrid, distance and online modalities.

**PLAN6526 - Design of Urban Sectors.**

*Three credits. Three hours of lecture per week.*

Principles, standards, and procedures for planning land use at the neighborhood and community levels. Circulation within the city; regulations for neighborhood and community development. Technologies relevant to the physical design of neighborhoods and communities, residential areas, commercial centers and institutional areas; the perceptual elements of the urban environment. 10-10-94

**PLAN6527 - Housing and Urban Renewal.**

*PLAN6527 - Housing and Urban Renewal.*

Analysis of housing problems, legislation, production, organization and financing, governmental policies and programs; urban renewal; related community facilities.

**PLAN6528 - Urban Development Policy.**

*3 credits. Three hours of lecture per week Prerequisites: PLAN 6076. Corequisites: PLAN 6089.*

This course seeks to induce the student to think like an urban strategic planner, linking the city to the social, regional and geopolitical environment. The urban policy and instruments available to address the issues or urban tensions of today are defined. Methods of evaluating public policies in the urban environment are studied. The student learns from the urban policy used to address urban problems or tensions throughout history. The urban issues or tensions of the present are discussed, both in Puerto Rico and abroad. Placing emphasis on strategic planning components, city structure management plans and plans that show the evaluation of urban policies. The urban policies that have influenced the creation of the social and constructed space of the sector are examined.

**PLAN6529 - Seminar: Urban Spatial Segregation.**

*Three credits. Three hours of seminar per week.*

Discussion of the characteristics and effects of spatial segregation, various segregation models including the dual city, its economic and social effects, the isolation of various groups in society, and government policy regarding that topic. August 14, 2001.

**PLAN6530 - Transportation Design.**

*PLAN6530 - Transportation Design. Prerequisites: PLAN 6502.*

Geometric design of transportation systems including but not limited to general concepts, cross-section elements, design controls and criteria, basic planning studies, impact on land use and adjacent development, right of way and access-control problems. Characteristics and schematic geometric design of terminals for various means of transportation of people and goods.

**PLAN6535 - Urban Legislation, Administration, And Financing.**

*PLAN6535 - Urban Legislation, Administration, And Financing.*

Examination and evaluation of the various legal, administrative and financing instruments for the implementation of urban public policies; those instruments as they are employed in the control and guidance of urban land uses and activities.

**PLAN6537 - The Financing of Urban Development and Public Housing.**

*PLAN6537 - The Financing of Urban Development and Public Housing.*

The urban development from the economic point of view: the mobilization of financial resources and the policy-making systems that channels these resources the economic aspects of urban development; national-

urban relationships; urbanization and industrialization; the role of investment by new sectors of the economy; the economy of decentralization and centralization; and the elements of an urban development policy.

**PLAN6538 - Urban Planning and Programming.**

*Three credits. Three hours of lecture per week.*

The process by which the guidelines and directives established by public urban development agencies may be integrated into master plan or regulatory plan for urban development. The way in which macro-scale projections for the social, economic and physio-spatial aspects implicit in various public services (such as transportation, land use, housing, education, health, etc. ) may be programmed and implemented, with special attention to administrative and financial issues. Face-to-face, hybrid and online modalities. 10-10-94

**PLAN6539 - Urban Economics.**

*PLAN6539 - Urban Economics.*

Urban economics as that discipline concerned with the range of human activities taking place within the urban environment and requiring decision as to the allocation of scarce resources to urban development. Aspects covered: the city as an economic entity; systems analysis methodology applied to the city; urbanization versus industrialization; macro-urban economics; the decentralized city; urban capital formation; the city as a part of an urban system.

**PLAN6546 - Econometry.**

*Three credits. Three hours of lecture per week.*

The various economic planning techniques presently in use. Distinction between the methods of programming and projecting. Discussion of various projecting methods such as simple and linear equations. Analysis of the various systems of equations so as to harmonize competing targets (such as income and employment). The input-output models and their applicability to the Puerto Rican situation. The techniques and methods used in the formulation and selection of projects. 10-10-94

**PLAN6547 - Techniques of Economic Programming.**

*Four credits. Four hours of lecture per week.*

A basic review and presentation of applied mathematics (matrix algebra, linear programming, etc.) needed to understand and prepare econometric models for planning. 10-10-94

**PLAN6548 - Statistical Decisions Theory.**

*Two credits. Three hours of lecture and one of laboratory work per week.*

Planning is to come extend a method and a way of thinking used in the process of decision making at the level of society, the firm or the organization. Because of the high degree of uncertainty present at any point in time, it is necessary that all planners be exposed and acquire a level of knowledge on decision theory. This course attempts to provide this for the first-year students of the graduate school of planning. Emphasis is on the area of statistical decision theory: its language, premises and subject matter. It is assumed that the student already commands elementary knowledge of statistical theory at the descriptive level. The course is not intended to be a substitute for introductory statistics. The intention is to go deep into decision making under uncertainty utilizing such tools as provided by the theory of games, decision with and without sampling and the concepts of mathematical expectation. Landmark works by I. J. Savage Raiffa, Mosteller and Edwards Will be studied. 10-10-94

**PLAN6550 - Instruments of Economic Policy.**

*Three credits. Three hours of lecture per week.*

Together with planning strategies, there is a need to identify the economic policy instruments available for

their implementation. Each plan requires a combination of such instruments. The objective of this course will be to identify and evaluate major instruments of economic policy which may be used for planning implementation. Choice in the use of economic policy instruments will be related to selected sectors of Puerto Rico. 10-10-94

### **PLAN6551 - Methods Of Analysis For Planning I.**

*Three credits. Three hours of lecture per week.*

Required course involving conference and discussion on the methods and life cycle of information systems, so students would be able to use information technologies to solve planning problems. Information technologies, as well as data gathering, organization, summary and interpretation methods, with a focus on spatial data management will be studied.

### **PLAN6552 - Methods Of Analysis For Planning II.**

*3 credits. Three hours of lecture per week Prerequisites: COURSE OF STATISTICAL OF LEVEL OF DEGREE.*

Conference and discussion on methods used for the analysis of economic, social and environmental problems in an urban and regional planning context. As part of this course, data gathering, organization, summary, visualization and interpretation methods will be used, paying particular attention to social data management. This course can be offered in both modalities: face-to-face or hybrid.

### **PLAN6555 - Economic Foundations of Cities and Island.**

*Three credits. Three hours of lecture per week Prerequisites: PLAN 6549 STATISTICS APPLIED TO THE PLANNING.*

Exploration of the economic development concept, various development models, and the application of these models, to the island of Puerto Rico and Taiwan.

### **PLAN6556 - Advanced Econometrics for Planners.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PLAN 6546-ECONOMETRICS.*

Conference and discussion of multiple linear regression estimation and inference problems, including model specification and diagnostic tests, so planning students can not only evaluate econometric analysis, but also design useful planning econometric models. Due to their frequent use in planning modeling, extensions of the two-variable linear model and the use of binary variables will also be studied in the context of multiple regression analysis.

### **PLAN6557 - Urban Land Economics.**

*PLAN6557 - Urban Land Economics.*

A survey of economic theory bearing upon the distribution of major activities in the urban space. Topics include economics of the modern city, theory of land rent and value, the location of business establishments, transportation and land values, dynamics of land use from rural to urban land, real estate taxation, elements of valuation and appraisal, the demand for real estate, and public policy.

### **PLAN6559 - Economic Aspects of Housing Policy.**

*PLAN6559 - Economic Aspects of Housing Policy.*

A study of the economic role of housing in a developing economy. Key economic factors related to housing: the role of housing in national income accounts; housing investment and the capital-output ratio; the stock and flow of housing units; the housing deficit; slum housing as viable; flow of funds; a systems analysis; and housing policy. Students are expected to have academic preparation in statistics, economic theory and finance, and fundamentals of planning.



**PLAN6568 - Regional Development Policies.**

*PLAN6568 - Regional Development Policies.*

The principal problems of regional or territorial development with which nations are faced, such as unequal growth among regions, overurbanization, the role of natural resources in regional growth, and the criteria used for investment allocation among regions. The various policies that have been employed in regional development, with examples from Puerto Rico and Latin America. A discussion of the urgent need for national policies of urban growth, with examples of attempts at formulating such policies.

**PLAN6576 - Agricultural Development Policy.**

*PLAN6576 - Agricultural Development Policy.*

Analysis of the factors and variables affecting the formulation of agricultural policies. Policies and strategies for the agricultural development of various countries, with special emphasis on Puerto Rico.

**PLAN6577 - Agricultural Projects.**

*PLAN6577 - Agricultural Projects.*

The development of a methodology for the design and evaluation of agricultural development projects and private businesses. The orientation will be pragmatic, and the course will deal with the following aspects: a) the design of projects (step-by-step methodology); b) evaluation (criteria and techniques) c) requirements of international organizations which finance agricultural projects; and d) defense of the projects presented in class.

**PLAN6584 - Evaluation of Plans, Programs and Projects.**

*Three credits. Three hours of lecture and discussion and three and a half hours of workshop per week*

*Prerequisites: PLAN 6076 AND PLAN 6019. CO-REQUISITES*

The aggregate and formative evaluation of plans, programs and projects assess the using quantitative and qualitative techniques to main discrepancies between what is planned, implemented and attained, in terms of efficiency and effectiveness and design recommendations for improvement. The techniques are applied to cases in order to identify and assess the impacts of those benefited and those harmed. It includes the techniques for presentation of results. 20-01-99

**PLAN6585 - The Planning of Social Services.**

*PLAN6585 - The Planning of Social Services.*

The theory, practice, and methods presently employed for the planning of social services, and the problems encountered in this type of planning. Cases from both advanced and less-advanced societies; emphasis on education, health, social security, housing, public order, and recreation. Comparison of the social service policies of various countries with those of Puerto Rico and other developing countries.

**PLAN6586 - Techniques of Social Analysis.**

*PLAN6586 - Techniques of Social Analysis.*

The planning of social policy requires special skills that go beyond the limitations of quantitative methods, particularly in those aspects which affect community development. Advocacy and community development. Special techniques which may be used by the planner in order to more fully understand the consequences of government action or inaction and its effects on the interest of concerned groups.

**PLAN6587 – Planning for Social Action.**

*PLAN6587 - Planning for Social Action.*

A study of institutions and methods and techniques for social action, such as community development, neighborhood organizations, cooperatives, labor unions, non-violent campaigns, and activist movements.

**PLAN6590 - Educational Planning.**

*PLAN6590 - Educational Planning.*

A discussion of the most important goals of educational systems as defined by various philosophies and demands for education. Fundamental issues in educational planning and the various approaches and techniques used in the field.

**PLAN6596 - Planning in Community Development.**

*PLAN6596 – Planning in Community Development.*

Theoretical and practical instruction aimed at giving the student the knowledge, attitudes, and skills necessary to perform the role the social planning professional is charged with in the process of community development. Community development is the process by which a community identifies or ranks its needs and objectives, develops the confidence and will to work toward achieving these needs and objectives, finds the resources both internal and external to deal with these needs or objectives, takes action with respect to them, and in so doing extends and develops cooperative and collaborative attitudes and practices in the community. Extensive field work.

**PLAN6597 - Urban Development and Environmental Change.**

*PLAN6597 - Urban Development and Environmental Change.*

Urban-regional planning and development must take into account the dynamic interrelation of such major urban systems as industry, transportation, electrical energy, water systems, and housing. The changing technologies within each system determine major socio-economic variables such as urban employment, income, land use, and environmental change. This course analyzes the role of environmental resources in urban systems and their significance for technology selection and urban development.

**PLAN6598 - Communities and Environmental Problems.**

*PLAN6598 - Communities and Environmental Problems.*

A study of scientific, organizational, educational, and legal aspects of environmental problems and their impact on communities. The economic and technological changes of the past forty years which underlie these problems. Community mobilization to face the problems. Students will visit communities involved in environmental struggles.

**PLAN6599 - Social Aspects of Housing and Urban Development.**

*PLAN6599 - Social Aspects of Housing and Urban Development.*

A study of the social role of housing, in both developing and economically advanced countries. Housing and its relation to the individual, the family, and the community; the origins and direct and indirect causes of social problems connected with housing, in the context of urban development; governmental actions to improve the social of public housing; concordances and conflicts between the social objectives of housing and general development policies.

**PLAN6600 - Basic Concepts in Environmental Science.**

*PLAN6600 - Basic Concepts in Environmental Science.*

Introductory course in environmental sciences. Ecosystems and biochemical cycles, ecological communities, habitats, and the ecological niche. Emphasis on threats to freshwater, marine, and terrestrial ecosystems from human action. Effects of various types of pollution on natural ecosystems; effects of pollution on human and other organisms.

**PLAN6601 - State, Market, and Governance in Planning.**

*3 credits. Three hours of seminar per week*

The course presents the institutional frameworks under which planning is practiced as a profession. It

discusses the role and boundaries of the market and the state. It addresses issues of governance, participation, deliberation and social\civil movements towards diversity and its limits. It also discusses the ethical and functional conflicts arising from these contexts. In addition, it addresses the legal impact of privatization on administrative design, the transformation of public law in a market economy, the examination of legislation and jurisprudence of administrative law and other legal aspects such as government contracting, access to public information and citizen intervention in administrative processes. Course face-to-face, hybrid and online modalities.

### **PLAN6602 - Geographic Information Systems for Planners.**

*4 credits. Two hours of lecture, one hour of discussion and one hour of laboratory per week Prerequisites: A COURSE OS STATISTICS OR MATHEMATICS AT THE LEVEL OF BACHILLER.*

Conference and discussion methods and life cycle of geographic information systems (gis), in order that students can use gis technologies to build scenarios and solve planning problems, regulations and permits, as well as possession of private and public property, and its ownership. Geographic information technologies, the collection, organization, and interpretation of geographic data will be studied, emphasizing demonstrations and exercises including planning scenarios and their relationship with regulations and laws in force. The course will present the tools of field collection and publication of the results using the concept of maps and products on the internet. Each topic will end with practical exercises on the techniques discussed. Course face-to-face, hybrid and online. Effective for January 2021.

### **PLAN6603 - Fundamentals Of Plan Making.**

*Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: PLAN 6076. Corequisites: PLAN 6552.*

This course is an introduction to the basic elements of a local comprehensive plan and the process for its development. The logic underlying this type of exercise and its wider application will be emphasized. The course will expose the students to the main methods and techniques of data collection , analysis and presentation basic to planning and plan-making. It will discuss the role of different stakeholders in the local planning process and the importance of their effective participation. It will examine diverse models for engaging citizen and organizations in the planning process and discuss the various roles that planners may play within the framework of a participatory strategy. Students are expected to develop an understanding of what is a plan (its logic), how we make plans and the role of institutions and multiple actors in the plan-making process. Face-to-face, hybrid and online modalities.

### **PLAN6604 - Theories of Community And Economic Development.**

*Three credits. Three hours of seminar per week Prerequisites: PLAN 6076.*

This course merges concepts and theories of "community development "and "economic development" for creating an environment that is conducive to economic opportunities, beyond growth. The course approaches community and economic development, through two lenses. The Shaffer star approach points to the community's resources, markets, rules, society, decision-making and space. The second is flora's community capitals: financial, political, social, human, cultural, natural and built. To reason about planning problems applying these lenses, it discusses classical and contemporary growth and development theories, and their application to contemporary problems of community and economic development. The course will also include discussion of these theories in the context of decision making within local planning from a community and economic perspective. Course offered presential, hybrid and online. Effective for January 2021.

### **PLAN6605 - Community and Economic Development Policy.**

*Three credits. Three hours of seminar per week Prerequisites: PLAN 6604.*

Three credits. Three hours of seminar per week Prerequisites: PLAN 6604.

**PLAN6606 - Seminar on Municipal Planning.**

*Three credits. Three hours of lecture per week.*

This course analyzes centralization and decentralization problems, municipal level citizen participation, municipal problematic applying to policies, economics, socials, urban, etc. And municipal organization to promote change and development. Analyze specific cases of municipalities in Puerto Rico and the possibility of municipal organization for planning. Face-to-face, hybrid and online modalities. 10-10-94

**PLAN6607 - Techniques of Analysis for Environmental Planning.**

*PLAN6607 - Techniques of Analysis for Environmental Planning.*

Methodologies and tools for the study of environmental planning. The main objective of the course is to equip students with (a) the basic skills necessary to identify sources of pollution; (b) the basic methods and tools used to measure the amount of pollution and to assess its effects; (c) the terminology and parameters of the types of pollutants, their nature, composition, and magnitude; (d) the basic criteria used in stating the nature and magnitude of environmental problems. Air, water, and noise pollution, waste disposal, and aesthetics.

**PLAN6608 - Technology for Environmental Control and Improvement.**

*PLAN6608 - Technology for Environmental Control and Improvement.*

Methods, tools, and mechanisms used in the treatment and control of environmental pollution. Tools and methods that may be employed to improve such environmental-quality factors as the physical space. A study of the several variables considered in water treatment, including costs; methods and mechanisms for controlling air noise pollution, their applications and cost; the collection, processing and disposal or re-use of solid wastes. Other methods, mechanisms, instruments or technologies related to environmental control and improvement. Special attention to issues concerning recirculation, re-use, development, and new sources of materials and energy for the socio-economic system. Study of the available technologies for exploring and developing natural resources with the least environmental harm. Problems of urban development and environmental quality, particularly those related to environmental quality control in the design of urban space. Face-to-face, hybrid and online modalities.

**PLAN6609 - University Planning.**

*PLAN6609 - University Planning.*

A course in policy and planning for higher education, including campus planning, organization and processes. Topics will include educational policy planning; statewide and regional higher education planning; campus location and site-selection criteria; campus specialization and size, enrollment projections, academic planning by departments; course structure and scheduling; space utilization studies; organization and campus planning (centralized and decentralized models); campus information systems (inventories of activity and space); campus development programming; university planning models; design considerations; circulation and parking studies; campus development plan; land- scape and site improvements; university-district planning and renewal; construction planning; housing; academic buildings; central university services.

**PLAN6610 - Planning of the Public Sector.**

*Three credits. Three hours of lecture per week.*

The public sector is analyzed as a producer and provider of goods and services. The nature of decision-making in the absence of price mechanisms and competition. Some of the most significant techniques for decision-making in the public sector. Client analysis, information systems, shadow pricing, ppbs, ect. The problem of organization and the question of citizen participation. 10-10-94

**PLAN6611 - Tools and Techniques for Analyzing Economic Development Issues.**

*Three credits. Three hours of seminar per week Corequisites: PLAN 6604.*

Every planning process starts with three elements: a project or problem, a baseline analysis, and an aim to provide a future scenario. Prior to proposing solutions, planners seek to understand their communities inside and out, as they seek to identify the forces for change. This class teaches you the basic planning methods planners use to understand a locality. The course entails two streams of knowledge: to teach you how to analyze the current situation, to interpret the analysis, and to make projections based on your empirical results.

### **PLAN6614 - Planning Project.**

*Three credits. Three hours of project per week Prerequisites: 24*

The project covers the entire planning process. An issue is defined and analyzed as a planning problem. Analyzes its causes or structures, propose alternative interventions, evaluate them and make a selection of one of those. Design an implementation and an evaluation plan. Oral presentation and defense of the project before advisors and faculty. 16-08-99

### **PLAN6616 - Planning Models for Firms.**

*PLAN6616 - Planning Models for Firms. Prerequisites: PLAN 6509, 6038, 6039, 6548, AND 6079.*

The objective of this course is to present the business as a small open systems with respect to its environment. This systems nature of the firm implies the necessity of planning for the short, medium, and long term so as to obtain maximum benefits from any knowledge about conditions or changes in conditions in the surrounding set of systems. The planning process should provide a set of options from which management may choose the best course of action. Emphasis on the use of computer simulation models and management games, both as a decision-making tool and as pedagogical instruments. In particular, two types of industries will be examined: private firms and public enterprise.

### **PLAN6617 - Environmental Policy and Natural Resources.**

*3 credits. Three hours of lecture per week Prerequisites: PLAN 6076, PLAN 6616 O AUTHORIZATION OF PROFESSOR. Corequisites: PLAN 6135.*

Introduction to the philosophical and legal foundations and contemporary debates of public environmental policy. The dominant practices and institutions of environmental management are examined, and alternatives are explored from sustainability and environmental justice. Seeks to develop a critical view of environmental public policy processes. It discusses the justifications and instruments of environmental public policy, the challenges of its implementation, the evaluation techniques (cost-benefit and deliberative) of environmental policy, the role of values, ideology and public opinion, and specific policies of Puerto Rico on: environmental impact assessment, environmental justice, the role of the federal government and municipalities, citizen participation, collaborative forest management, water management, coastal zone management, and land use planning. The course has a seminar format, based on discussion and critical analysis of readings and contemporary issues.

### **PLAN6618 - Environmental Design.**

*PLAN6618 - Environmental Design.*

The value of good design in human environments, urban and rural, is constantly being affected by technological innovations and accelerated change. This course seeks to evaluate design from an environmental point of view in order to minimize the negative social, economic, and spatial effects of development and to stimulate the positive effects.

### **PLAN6619 - Environmental Studies for Planning.**

*PLAN6619 - Environmental Studies for Planning.*

Planning and the environmental are so closely linked that it is almost impossible today to consider planning

independently of the environmental implications of any proposed plan. For better understanding of such interdependence future planners must be properly trained in the scientific factors that must be taken into account when dealing with the environment. Without this scientific basis, a general knowledge of ecology, methods of conservation of water, air, soil, forest, etc., will remain incomplete or relatively superficial.

**PLAN6620 - Corporate Strategic Planning Seminar.**

*Three credits. Three hours of lecture per week Prerequisites: PLAN 6616*

Seminar for the discussion and application of modern techniques of corporate strategic planning. 10-10-94

**PLAN6621 - Environmental Controls Administration.**

*Three credits. Three hours of discussion per week Prerequisites: PLAN 6076 AND 6077.*

Analysis of the environment from the administrative perspective. Examination of how environmental management has been conceived, structured, and practiced. Study of the major legal and administrative strategies developed for the protection of environmental resources. 16-08-99

**PLAN6625 - Uneven Regional Development.**

*PLAN6625 - Uneven Regional Development. Prerequisites: PLAN 6015 AND 6017.*

Exploration of the why and how of uneven regional development from various perspectives. Workshop and discussion.

**PLAN6635 - History of Urban Planning in The New World.**

*PLAN6635 - History of Urban Planning in The New World.*

A systematic survey of the history of city planning in north and South America and the Caribbean, beginning with pre-Hispanic settlements, the earliest colonial centers of the 16th-century Caribbean, and the evaluation of urban development in the new world through the first half of the 20th century. Research methods involving use of archival materials and secondary sources in order to understand the planned origins and growth of towns and cities in the Americas. Special emphasis the tradition of urban planning in Puerto Rico and the Caribbean.

**PLAN6645 - Techniques in Consultation.**

*PLAN6645 - Techniques in Consultation.*

Skill in consultation in planning, and connected disciplines, with methodological skills for proposals and studies.

**PLAN6896 - Planning Project Continued.**

*No credits. Nine hours of conference per week Prerequisites: PLAN 6615*

Continuation of the planning project, plan 6615. Students continue their research and have access to the library and other facilities of the school of planning. 10-10-94

**PLAN6995 - Advanced Readings in Planning.**

*PLAN6995 - Advanced Readings in Planning.*

For students wishing to pursue more advanced studies in topics or areas of their interest. Independent study under supervision. (c) theme: revalidate review seminar. P. H. Online. Effective January 2021

**PLAN6996 - Practicum-practice Of Planning.**

*Five credits. Prerequisites: PLAN 6076, 6602, 6077, 6552, 6116 Y 6603.*

Five credits. Prerequisites: PLAN 6076, 6602, 6077, 6552, 6116 Y 6603.

## **COURSES WITH CREDIT – FREE ELECTIVES / DECEP**

### **STEM6001 - Teaching and Learning with the Stem Approach.**

*Three credits.*

Experiences to introduce and conceptualize teaching from the stem (science, technology, engineering and mathematics) educative focus. Changes in the educational paradigms, scenarios and challenges to work with the learning needs in the xxi century are studied. Ideas, concepts and processes are broadened, also the use of methodologies, strategies and techniques for a stem education. The student is acquainted with innovate strategies such as pbl (project-based learning) and edp (engineering, design process). Problems and themes are discussed to work in a pbl project, in which the standards of science and mathematics are integrated. Course online.

### **STEM6002 - Integration of Science and Mathematics in Investigation with the Stem Approach.**

*Three credits.*

The focus in science, technology, engineering and mathematics (stem) represent a priority for the educational system. In this course, educators will use the project-based learning (pbl) to facilitate the teaching with the stem approach. In this course science and mathematics will be integrated with an emphasis in investigation. Course online.

### **STEM6003 - Teaching and Engineering Concepts Application for the Development of Concepts In the Stem Area.**

*Three credits.*

Educators will integrate the engineering design process (edp) with problem resolution using the project-based learning strategy (pbl) under the stem focus. The course will provide different active learning scenarios in which the thematic concepts that appear in the science and mathematics blueprints are aligned to real problems in the teaching environment. Investigative, design, construction and cooperatively working skills will be developed. This course will be offered in online mode.

### **STEM6004 - Automation and Robotics Integration.**

*Three credits.*

Three credits.

### **STEM6005 - Evaluation and Project Transference Stem-pbl.**

*Three credits.*

Educators will integrate, apply and transfer the knowledge acquired in courses; stem 6001, stem 6002, stem 6003 and stem 6004. Educators are guided to evaluate, revise and optimize their stem-pbl projects as part of the engineering design process (edp). These projects will be exhibited in the learning festival which is the summit meeting of this certification. This will serve as the base to promote an educational stem-pbl community of educators in Puerto Rico. Course online mode.