

UPR-RP

UNDERGRADUATE CATALOGUE - PART 2

2021-2022



UPR RP

**UNIVERSITY OF PUERTO RICO
RIO PIEDRAS ENCLOSURE**

**GENERAL CATALOGUE OF PROGRAMMES
UNDERGRADUATE GRADUATES**

2022

Effective June 2022, the University of Puerto Rico reserves the right to make changes to academic requirements, the calendar, and tuition fees after the date of publication.

The Río Piedras Campus reviews its academic offerings on an ongoing basis, in an effort to strengthen their quality and relevance. In this process, some of the programs and courses presented in this catalog may be modified, consolidated with other programs, or eliminated. For up-to-date information on academic programs and other information, please refer to the following

e-mail address:
http://www.uprrp.edu/academia/facultades_programas.php

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FACULTY OF HUMANITIES

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RECOGNITIONS AND ACCREDITATIONS

The Faculty of Humanities has been widely recognized by national and international institutions for the academic and artistic work of professors and students. He has received grants from the National Endowment for the Arts (NEA), the Puerto Rican Foundation for the Humanities (FPH), and the Mellon Foundation. On the other hand, the Teatro Rodante has been honored in international festivals such as the XXII Ibero-American Festival of Contemporary Theater of Almagro. The Department of Drama, on the other hand, was recognized for its excellence in the training of undergraduate students in acting by the *University Resident Theatre Association* (URTA). In addition to having sung with the Puerto Rico Symphony Orchestra in several concerts, including the Casals Festival, the UPR Concert Choir, Coralia, she has received several international awards, including

the most recent: the famous international competition Florilège Vocal de Tours, where they won several awards in different categories; the European Grand Prix for Choral Singing in Hungary, where finalists arrived; and the International Choral Competition Guido D'Arezzo, which earned them third place in the secular category.

HISTORY

The Faculty of Humanities was founded in 1943 and, since then, it has been the center of the most promising academic, research and creative humanistic production in the country. Its mission is to provide students with a broad education in the humanistic disciplines, with an emphasis on a particular area of interest at the undergraduate level and a preparation of the highest caliber in theory and research within each graduate specialty. On the other hand, it offers the academic and intellectual conditions for graduates, trained in critical and creative thinking, to continue higher education or join the world of work in a variety of professions and other activities, enriched by the knowledge, sensitivity and values that are identified with the humanistic perspective. Thus, at each level, students receive the best comprehensive and specialized training in their particular disciplines, with a humanistic core preparation, and develop the necessary skills to perform in the selected field.

The Faculty of Humanities seeks to promote the study of and interest in the great works of humanity seen in a historical and cultural framework, from a critical and interpretative perspective, since the humanistic disciplines open doors in all imagined and unimaginable directions by virtue of being the ones that most directly touch the fibers of individual and social sensitivity. historical memory, broad cultural understanding and communication as an essential means for social and political, national and international interaction. In this vision, all human activity must be framed, from those that integrate the canon and tradition, to those that are considered more everyday and emerging, in a new socio-historical, global and multicultural context, linked by technological innovations.

The Faculty of Humanities has undergraduate and graduate departments and programs, many of which are unique in their class and pioneers in revising their requirements and creating areas of emphasis and curricular sequences. The Departments of Hispanic Studies, History, and English offer bachelor's, master's, and doctoral degrees; the Departments of Philosophy and Comparative Literature offer bachelor's and master's degrees, as well as the Interdisciplinary Studies Program (PREI), which complements the bachelor's degree with the master's degree in Cultural Management and Administration (MAGAC). The Graduate Programs in Linguistics and Translation offer master's degrees. Finally, the Art History Program and the Departments of Fine Arts, Foreign Languages, Music, and Drama have bachelor's degrees in their respective disciplines.

The Faculty's role also transcends its own programs, as it offers a range of art and literature courses that are part of the General Education component of the Campus, as well as several core requirements and electives from other faculties such as the Faculty of Education and the Faculty of Communication and Information, among others.

The Faculty of Humanities has documentary collections such as the Federico de Onís Seminary and the Center for Historical Research, two important centers for the collection of documents and research. In addition, seminars in Art History, Philosophy, Music, and English enrich the research experience in these fields. It also has spaces for exhibition and presentation of work in the field of plastic arts, music, theatre

and dance, such as the Francisco Oller Art Gallery, the 209 Gallery, the Julia Theater in Burgos and the Auditorium of the Music Department. In addition, due to the nature of its disciplines, it enjoys a close

relationship with the UPR Theater, Aula Magna of our University. In all these spaces, as well as in the Quadrangle, the Rotunda or the Plaza Baldorioty de Castro, the most far-reaching creative and artistic work in the Campus is managed and projected by students, teachers, artists from the country and abroad, from recognized figures or those who are starting out in the arts. of the classical and experimental repertoire.

Likewise, the Faculty provides experiences of participation in theatrical and musical groups such as the Traveling Theater, the University Choir, the Concert Choir (Coralía), the Symphonic Band, the Lyric Theater, the Chamber Orchestra, the Creole Ensemble and the Classical Guitar, Clarinet, Flute, Popular Music and Jazz ensembles. To these are added the student organizations of the different disciplines. The research and creative work of our academic community is disseminated through print and digital media. These include *Tongvas*, *Diálogo*, *the Journal of the Center for Historical Research*, *History and Society*, *the Journal of Hispanic Studies*, *the Cuadernos de Lingüística*, *Bambalinas* and *Sargasso*.

DEGREES AWARDED

- Bachelor of Arts with concentrations in Fine Arts, Drama, Hispanic Studies, Interdisciplinary Studies, Philosophy, History, Art History, English, Modern Languages, Comparative Literature, and Music.
- Master of Arts with specialties in Hispanic Studies, Philosophy, History, English, Linguistics, Comparative Literature, Translation, and Cultural Management and Administration.
- PhD in Philosophy with specialties in Hispanic Studies, History and English.

STUDENT SERVICES

- Guidance and academic advising services at the Assistant Dean of Student Affairs and Guidance
- Spaces for creation and dissemination: Jorge Enjuto Hall, Music Auditorium, Francisco Oller Gallery, Gallery 209, Julia de Burgos Experimental Theatre, Teatrito
- Laboratories
 - o Laboratory for Electronic Music
 - o Piano Laboratory
- Student Technology Service Centers
 - o English Department Writing Center
 - o Foreign Languages Media Library
 - o Center for Technology Applied to Music (CETAM)
 - o Computer room for student use
- Study and research units
 - o Center for Historical Research
 - o Federico de Onís Hispanic Studies Seminar
 - o Cristóbal Ruíz Art History Seminar
 - o Ludwig Schajowicz Philosophy Seminar
 - o Lewis C. Richardson English Seminar
 - o José E. González Multidisciplinary Seminar

DEPARTMENTS

FINE ARTS

Mission: To provide a comprehensive education of knowledge that harmonizes general humanistic education and specialized training in the Plastic Arts. In addition to encouraging intellectual development and critical capacity through the arts, the educational strategies of this program are aimed at developing study, creation and independent research in the Visual Arts. It also fosters the dissemination of research and creation projects aimed at the local and global community and promotes social responsibility through artistic manifestations.

DRAMA

Mission: The Department of Drama at the University of Puerto Rico's Río Piedras Campus, attached to the Faculty of Humanities, offers its students a concentration in theater arts. Since its foundation in 1941 as a drama group under the direction of Leopoldo Santiago Lavandero, the Department of Drama has developed into a complex academic unit that offers courses in Theatre History, Dramatic Theory, Acting, Pantomime, Lighting, Scenography, Costumes, Diction, Theatre Production, Direction, Stage Direction for Teachers and dance courses. movement and body expression. The Department of Drama proposes, through a rigorous academic program, to promote the value of theater in society and its contribution to the cultural development of Puerto Rico. Its goal is to make the university community aware of the representative works of universal theater. It provides concentration students with the basic knowledge of the art of theatre and the opportunity to learn first-hand about the challenges and problems that theatre work represents in all its aspects. The Department is the workshop where both traditional and experimental theatrical techniques are put into practice, by and for the students. In this combination of the traditional and the new, creative activity is continually being developed.

HISPANIC STUDIES

Mission: The Department of Hispanic Studies, attached to the School of Humanities of the University of Puerto Rico, offers a concentration in Hispanic Language and Literature. Since its founding in 1927, it has been a meeting place for creators, researchers, linguists, and literary critics from Puerto Rico, Spain, and the Americas. He has played a leading role in the study of the literary and linguistic phenomenon in all its complexity, through the interdisciplinary analysis that the Department offers through its courses in literature, Hispanic linguistics and research seminars. It has been the main academic center for the study of Puerto Rican, Ibero-American, and Spanish culture, language, and literatures. This Program has, in turn, a graduate Program, both Master's and Doctorate, of solid international prestige.

INTERDISCIPLINARY STUDIES

Mission: The Interdisciplinary Studies Program serves a student population whose study interests do not match the offerings of a single department. Through the study and application of theoretical and methodological principles from various disciplines, students explore different areas, topics, and problems. They obtain a broad cultural training that allows them to venture into various fields of employment or pursue graduate studies in disciplines such as law, translation, gender studies, cinema and literature, and other specialties that integrate knowledge or perspectives from various disciplines.

The Program is committed to quality undergraduate education, both in theory and in the practice of knowledge. It fosters the comprehensive training of students and promotes their leadership.

PHILOSOPHY

Vision: To develop in students the cultivation of the study of Philosophy, through the broad and systematic approach, and with the methodological caution with which our intellectual discipline approaches any question, theoretical or practical.

Mission: To promote the studies, research and teaching of Philosophy, taking into account both its history and current events as well as the theoretical and practical aspects that are present in its questions, problems and approaches.

HISTORY

Mission: To promote the integral formation of its students with teaching-learning experiences that promote intellectual curiosity, critical capacity, appreciation and cultivation of ethical and aesthetic values, as well as reflection and social responsibility. Its purpose is to provide an education of the highest quality, whose core element is research, as well as to offer a program of excellence that provides a comprehensive vision of knowledge, harmonizing general education and specialized training, as well as the new trends in Cultural History

MODERN LANGUAGES

Mission: To train students in the learning, use, and appreciation of one or more foreign languages so that they can perform competently in a variety of academic, social, and professional settings, both orally and in writing. It also aims to cultivate linguistic skills and literary, cultural and professional knowledge, as well as the development of research skills. It also aims to train citizens capable of establishing effective communication ties that allow interrelation with other cultures.

ART HISTORY

Mission: To offer an academic program oriented towards the study, research and creation of the arts, aimed at the training of professionals and scholars of Art History.

COMPARATIVE LITERATURE

Mission: Comparative Literature is a changing, porous, and self-critical academic discipline that constantly redefines both its object of study and its reading and research protocols. The exercise of comparatism involves the learning of several languages and the critical appreciation of the practice of translation, the knowledge of various traditions or textual networks, and the proper use of concrete theoretical tools. These three elements converge in the development of a certain way of reading that is not subordinated to the imperatives of a single linguistic, national, generic, disciplinary or chronological tradition. Historically, the methodologies of the study of the literary (rhetoric, poetics, literariness) have moved from the study of values to literary history, from text commentary to structuralist formalism, from deconstruction and its rhetoric from aporias to cultural studies. More recently, in the era of debates about multiculturalism and globalization, Comparative Literature has insisted on the need to pay attention to the productive tensions that arise from particularisms. What and how it compares responds to a large extent to paradigmatic fluctuations that affect the variety of the humanistic field. The Department of Comparative Literature of the University of Puerto Rico at Río Piedras seeks to enhance its location at the Caribbean crossroads as a particular area of production of literary and humanistic knowledge

MUSIC

Mission and vision: The Department of Music promotes music education from a humanistic perspective. This training fosters the integral development of the student through analysis, research, creation and musical interpretation. Through this academic activity, we provide tools for the

appreciation of musical art both to students of the two concentrations [Humanities and Education] and to those of other departments and faculties. In addition, the Department maintains concert series of various groups which serve both the University and the community in general and internationally

ENGLISH

Vision: To create an integrated program that appreciates and studies English as a global language and as a series of linguistic skills and professional expression; dedicated to the research, creation and dissemination of analytical, critical and theoretical knowledge as well as creative, cultural and communicative, in the context of contemporary Puerto Rican, Caribbean, Latin American and international reality.

Mission: To provide students with a learning and development experience in the English language and the English-speaking world. Through the study of literature, linguistics, and communication, we develop in the student intellectual curiosity, critical capacity, a comprehensive vision of knowledge, and a variety of writing and reading styles within an interdisciplinary environment.

of the

ADMISSION REQUIREMENTS

NEW ENTRY

- The minimum required admission rate is reviewed annually and is different for each academic program; it ranges from 250 to 280.
- The Fine Arts, Music, and Drama departments admit students by skills.
- The Department of Fine Arts requires a portfolio review. For information, call 787-764-0000, extensions 89434 or 89396.
- The Music Department requires an audition and placement test. If the student does not reach the required level, he/she must pass the course MUSI 3175 Introduction to Reading and Dictation. You should contact Music Department staff at: 787-764-0000, extensions 89740 or 89774.

READMISSIONS

Students who have interrupted their studies for a semester or more at the Rio Piedras Campus, as well as those who have completed a degree and wish to pass courses to obtain a major or prerequisite courses for a graduate program, must complete a readmission application. The requirements are as follows:

- Have passed the year's Humanities course (HUMA 3101-3102) or its equivalent
- Have maintained a minimum GPA of 2.50 except for the Bachelor's Degrees in Interdisciplinary Studies (PREI), which requires a minimum GPA of 2.80 and the Bachelor's Degrees in Drama and Modern Languages, which require a minimum GPA of 3.00.

RECLASSIFICATIONS (STUDENTS FROM OTHER FACULTIES ON CAMPUS OR FROM OTHER CONCENTRATIONS OF THE FACULTY)

- Have passed at least thirty (30) credits at the time of requesting reclassification.
- Have passed six (6) credits in the humanities courses of the Faculty of General Studies (HUMA 3101-3102 or its equivalent).
- **Have maintained a minimum GPA of 2.50, except** for Bachelor's Degrees in Interdisciplinary Studies which require a minimum GPA of 2.80, and Bachelor's Degrees in Drama and Modern Languages, which require a minimum GPA of 3.00

- **Music Department-** In addition to meeting the above requirements, the student must have passed the courses MUSI 3175 Introduction to Reading and Dictation I and MUSI 3176 Introduction to Reading and Dictation II. Applicants who meet the admission requirements will be summoned for an interview with the Director of the department.

TRANSFER (STUDENTS FROM OTHER UNITS OF THE UPR SYSTEM)

- Have passed at least thirty (30) credits at the time of requesting the transfer.
- Have passed six (6) credits in the core humanities courses (HUMA 3101-3102 or its equivalent).
- **Have maintained a minimum GPA of 2.50, except** for Bachelor's Degrees in Interdisciplinary Studies which require a minimum GPA of 2.80, and Bachelor's Degrees in Drama and Modern Languages which require a minimum GPA of 3.00

ARTICULATED TRANSFER

According to the current agreement.

TRANSFER (STUDENTS FROM UNIVERSITIES OUTSIDE THE UPR SYSTEM)

- Have passed at least thirty (30) credits at the time of requesting the transfer.
- **Have maintained a minimum GPA of 2.50, except** for the Bachelor's Degrees in Interdisciplinary Studies which require a minimum GPA of 2.80, the Bachelor's Degree in Drama which requires a minimum GPA of 3.00, and the Bachelor's Bachelor's Degree in Modern Languages which requires a minimum GPA of 3.50.

NOTE: When the student comes from a private institution, credits taken at that institution are not automatically validated. The student must pass twelve (12) credits at the Río Piedras Campus and then apply for validation at the Assistant Dean of Student Affairs of the Faculty of Humanities. The maximum number of credits to be validated is thirty (30) credits.

GRADUATION REQUIREMENTS

- Be officially classified in the Faculty of Humanities.
- Have a graduation and concentration rate of 2.00 points or higher and have passed 129 credits.
- Meet the residency requirement – every student is required to pass at least 36 of the last 48 credits at the Rio Piedras Campus.

STUDY PROGRAMS

BACHELOR OF ARTS WITH A CONCENTRATION IN PLASTIC ARTS

AREA OF EMPHASIS: ART & TECHNOLOGY

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	MUSIC or THEATRE *	3
ART 3911 Fundamentals of the Visual Arts I	3	ART 3912 Fundamentals of the Visual Arts II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART 3191 Western Art I	3	HART 3192 Western Art II	3
ART 3053 or 3063 or 3073 Digital Image I or Digital Sonic Art I or Digital Video I	3	ART 3054 or 3064 or 3074 Digital Image II or Digital Sonic Art II or Digital Video II	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Free Elective	3	Free Elective	3
Total credits	18	Total credits	15

*The student will take 3 crs. in ART or HART, 3 crs. in MUSI and 3 crs. in TEAT, for a total of 9 credits.

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ART 3913 Fundamentals of the Visual Arts III	3	ART 4998 Themes of Contemporary Artistic Practice	3
ART (Elective in Art and Technology)	3	ART (Elective in Art and Technology)	3
Free Elective	3	ART (Elective in Art and Technology)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Total credits	18	Total credits	18

*The student will take 3 crs. in ART or HART, 3 crs. in MUSI and 3 crs. in TEAT, for a total of 9 credits.

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ART 4971 Research and Workshop	3	ART 4972 Research and Workshop	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
Creation I		Creation II	
LITE (Comparative Literature)	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
ARTE 4971 Research and Creation Workshop I	3	ARTE 4972 Research and Creation Workshop II	
Total credits	18	Total credits	15

AREA OF EMPHASIS: DRAWING

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	MUSIC or THEATRE *	3
ART 3911 Fundamentals of the Visual Arts I	3	ART 3912 Fundamentals of the Visual Arts II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART 3191 Western Art I	3	HART 3192 Western Art II	3
ART 3053 or 3063 or 3073 Digital Image I or Digital Sonic Art I or Digital Video I	3	ART 3054 or 3064 or 3074 Digital Image II or Digital Sonic Art II or Digital Video II	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Free Elective	3	Free Elective	3
Total credits	18	Total credits	15

*The student will take 3 crs. in ART or HART, 3 crs. in MUSI and 3 crs. in TEAT, for a total of 9 credits.

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ART 3913 Fundamentals of the Visual Arts III	3	ART 4998 Themes of Contemporary Artistic Practice	3
ART (Elective in Drawing)	3	ART (Elective in Drawing)	3
Free Elective	3	ART (Elective in Drawing)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Total credits	18	Total credits	18

*The student will take 3 crs. in ART or HART, 3 crs. in MUSI and 3 crs. in TEAT, for a total of 9 credits.

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ARTE 4971 Research and Creation Workshop I	3	ARTE 4972 Research and Creation Workshop II	3
LITE (Comparative Literature)	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

AREA OF EMPHASIS: PHOTOGRAPHY

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	MUSIC or THEATRE *	3
ART 3911 Fundamentals of the Visual Arts I	3	ART 3912 Fundamentals of the Visual Arts II	3
Total credits	15	Total credits	15

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART 3191 Western Art I	3	HART 3192 Western Art II	3
ART 3711 or 3731 Photography Processes I	3	ART 3712 or 3732 Photography Processes II	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Free Elective	3	Free Elective	3
MUSIC or THEATRE *	3		
Total credits	18	Total credits	15

*The student will take 3 crs. in ART or HART, 3 crs. in MUSI and 3 crs. in TEAT, for a total of 9 credits.

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ART 3913 Fundamentals of the Visual Arts III	3	ART 4998 Themes of Contemporary Artistic Practice	3
ART (Elective in Drawing)	3	ART (Elective in Drawing)	3
Free Elective	3	ART (Elective in Drawing)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Total credits	18	Total credits	18

*The student will take 3 crs. in ART or HART, 3 crs. in MUSI and 3 crs. in TEAT, for a total of 9 credits.

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ARTE 4971 Research and Creation Workshop I	3	ARTE 4972 Research and Creation Workshop II	3
LITE (Comparative Literature)	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

AREA OF EMPHASIS: ENGRAVING

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	MUSIC or THEATRE *	3
ART 3911 Fundamentals of the Visual Arts I	3	ART 3912 Fundamentals of the Visual Arts II	3
Total credits	15	Total credits	15

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART 3191 Western Art I	3	HART 3192 Western Art II	3
ART 3401 Drawing I	3	ART (Fine Arts Elective)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Free Elective	3	Free Elective	3
MUSIC or THEATRE *	3		
Total credits	18	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ART 3913 Fundamentals of the Visual Arts III	3	ART 4998 Themes of Contemporary Artistic Practice	3
ART (Printmaking Elective)	3	ART (Printmaking Elective)	3
Free Elective	3	ART (Printmaking Elective)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ARTE 4971 Research and Creation Workshop I	3	ARTE 4972 Research and Creation Workshop II	3
LITE (Comparative Literature)	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

MULTIDISCIPLINARY AREA IN PLASTIC ARTS

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	MUSIC or THEATRE *	3
ART 3911 Fundamentals of the Visual Arts I	3	ART 3912 Fundamentals of the Visual Arts II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART 3191 Western Art I	3	HART 3192 Western Art II	3
ARTE (Directed selection in engraving)	3	ARTE (Directed selection in engraving)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Free Elective	3	Free Elective	3
MUSIC or THEATRE *	3		
Total credits	18	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ART 3913 Fundamentals of the Visual Arts III	3	ART 4998 Themes of Contemporary Artistic Practice	3
ART (Fine Arts Elective)	3	ART (Fine Arts Elective)	3
Free Elective	3	ART (Fine Arts Elective)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ARTE 4971 Research and Creation Workshop I	3	ARTE 4972 Research and Creation Workshop II	3
LITE (Comparative Literature)	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

PAINTING

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	MUSIC or THEATRE *	3
ART 3911 Fundamentals of the Visual Arts I	3	ART 3912 Fundamentals of the Visual Arts II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART 3191 Western Art I	3	HART 3192 Western Art II	3
ART 3815 Painting Processes I	3	ART 3816 Painting Processes II	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
MUSIC or THEATRE *	3	Free Elective	3
Free Elective	3		
Total credits	18	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ART 3913 Fundamentals of the Visual Arts III	3	ART 4998 Themes of Contemporary Artistic Practice	3
ART Elective in Painting	3	ART Elective in Painting	3
Free Elective	3	ART Elective in Painting	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ARTE 4971 Research and Creation Workshop I	3	ARTE 4972 Research and Creation Workshop II	3
LITE (Comparative Literature)	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

BACHELOR OF ARTS WITH A CONCENTRATION IN HISPANIC STUDIES

AREA OF EMPHASIS: GENERAL

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
		ESPA (course to choose from the area of writing or literary creation)	3
Total credits	15	Total credits	18

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA 4009 Debates in Spanish Literature: From the Middle Ages to the Renaissance	3	ESPA 4115 Debates in Spanish Literature: Baroque to Avant-Garde	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
A course to choose from: ESPA 4265 Hispano-American Literature ESPA 4221 Int. to Hispanic American Literature I ESPA 4222 Int. to Hispanic American Literature II	3	ESPA (Hispanic Studies Elective)	3
ESPA (course of your choice in the area of linguistics)	3	A course to choose from: ESPA 4267 Puerto Rican Literature ESPA 4231 Int. to Puerto Rican Literature I ESPA 4232 Int. to Puerto Rican Literature II	3
Foreign Language I	3	Foreign Language II (one language)	3
Total credits	15	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
FILO (Philosophy)	3	FILO (Philosophy)	3
ESPA (Hispanic Studies Elective)	3	ESPA (Hispanic Studies Elective)	3
Faculty of Humanities Open Elective	3	Faculty of Humanities Open Elective	3
HIST (History)	3	HIST (History)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
LITE (Comparative Literature)	3	Free Elective	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
ESPA 4886 Introduction to Literary Theory or ESPA (Hispanic Studies Elective)	3	ESPA 4887 Seminar on Research Methods and Dissertation Writing or ESPA 4066 Seminar on Linguistic Research **	3
ESPA (Hispanic Studies Elective)	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

AREA OF EMPHASIS: HISPANIC LINGUISTICS

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
		ESPA (course to choose from the area of writing or literary creation)	3
Total credits	15	Total credits	18

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA 4009 Debates in Spanish Literature: From the Middle Ages to the Renaissance	3	ESPA 4115 Debates in Spanish Literature: Baroque to Avant-Garde	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
ESPA 4265 Hispanic American Literature ESPA 4221 Int. to Hispanic American Literature I o	3	ESPA (Elective in Linguistics)**	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA 4222 Int. a la Literatura Hispanoamericana II			
One course (3 crs.) to choose from: ESPA 3011 Introduction to Linguistics I ESPA 3012 Introduction to Linguistics II ESPA 3013 Introduction to Linguistics (compendium)	3	One course (3 crs.) to choose from: ESPA 4267 Puerto Rican Literature ESPA 4231 Int. to Puerto Rican Literature I ESPA 4232 Int. to Puerto Rican Literature II	3
Foreign Language I	3	Foreign Language II (one language)	3
Total credits	15	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
FILO (Philosophy)	3	FILO (Philosophy)	3
LITE (Comparative Literature)	3	One course (3 crs.) to choose from: ESPA 4236 Morphosyntax of Spanish ESPA 4116 Lexico-semantics of Spanish ESPA 4008 Phonology and phonetics of Spanish	3
Faculty of Humanities Open Elective	3	Faculty of Humanities Open Elective	3
HIST (History)	3	HIST (History)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
One course (3 crs.) to choose from: ESPA 4236 Morphosyntax of Spanish ESPA 4116 Lexico-semantics of Spanish ESPA 4008 Phonology and phonetics of Spanish	3	Free Elective	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
One course (3 crs.) to choose from: ESPA 4011 Hispanic Linguistics– Diachrony ESPA 4013 Hispanic Linguistics (compendium)	3	ESPA 4066 Linguistic Research Seminar	3
ESPA (Elective in Linguistics)	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

AREA OF EMPHASIS: SPANISH LITERATURE

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
		ESPA (course to choose from the area of writing or literary creation)	3
Total credits	15	Total credits	18

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA 4009 Debates in Spanish Literature: From the Middle Ages to the Renaissance	3	ESPA 4115 Debates in Spanish Literature: Baroque to Avant-Garde	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
A course to choose from: ESPA 4265 Hispano-American Literature ESPA 4221 Int. to Hispanic American Literature I ESPA 4222 Int. to Hispanic American Literature II	3	ESPA (Elective in Spanish Literature)	3
ESPA (course of your choice in the area of linguistics)	3	A course to choose from: ESPA 4267 Puerto Rican Literature ESPA 4231 Int. to Puerto Rican Literature I ESPA 4232 Int. to Puerto Rican Literature II	3
Foreign Language I	3	Foreign Language II (one language)	3
Total credits	15	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
FILO (Philosophy)	3	FILO (Philosophy)	3
ESPA (Elective in Spanish Literature)	3	ESPA (Elective in Spanish Literature)	3
Faculty of Humanities Open Elective	3	Faculty of Humanities Open Elective	3
HIST (History)	3	HIST (History)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
LITE (Comparative Literature)	3	Free Elective	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
ESPA 4886 Introduction to Literary Theory	3	ESPA 4887 Research Methods and Dissertation Writing Seminar	3
ESPA (Elective in Spanish Literature)	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

AREA OF EMPHASIS: HISPANIC AMERICAN/PUERTO RICAN LITERATURE

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
		ESPA (course to choose from the area of writing or literary creation)	3
Total credits	15	Total credits	18

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA 4009 Debates in Spanish Literature: From the Middle Ages to the Renaissance	3	ESPA 4115 Debates in Spanish Literature: Baroque to Avant-Garde	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
A course to choose from: ESPA 4265 Hispano-American Literature ESPA 4221 Int. to Hispanic American Literature I ESPA 4222 Int. to Hispanic American Literature II	3	ESPA (Elective in Spanish-American/Puerto Rican Literature)	3
ESPA (course of your choice in the area of linguistics)	3	A course to choose from: ESPA 4267 Puerto Rican Literature ESPA 4231 Int. to Puerto Rican Literature I ESPA 4232 Int. to Puerto Rican Literature II	3
Foreign Language I	3	Foreign Language II (one language)	3
Total credits	15	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
FILO (Philosophy)	3	FILO (Philosophy)	3
ESPA (Elective in Spanish-American/Puerto Rican Literature)	3	ESPA (Elective in Spanish-American/Puerto Rican Literature)	3
Faculty of Humanities Open Elective	3	Faculty of Humanities Open Elective	3
HIST (History)	3	HIST (History)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
LITE (Comparative Literature)	3	Free Elective	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
ESPA 4886 Introduction to Literary Theory	3	ESPA 4887 Seminar on Research Methods and Dissertation Writing	3
ESPA (Elective in Spanish-American/Puerto Rican Literature)	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

BACHELOR OF ARTS WITH A CONCENTRATION IN PHILOSOPHY

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA – Spanish (depending on level)	3	ESPA – Spanish (depending on level)	3
ENGLISH – English (depending on level)	3	ENGLISH – English (depending on level)	3
CISO – Social Sciences	3	CISO – Social Sciences	3
Natural Sciences (CIBI or CIFI)	3	Natural Sciences (CIBI or CIFI)	3
HUMA – Humanities	3	HUMA – Humanities	3
		Free elective	
Total credits	15	Total credits	18

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
Mathematical Logical Thinking	3	**MUSI, TEAT, ARTE or HART	3
HIST – History	3	ESPA – Hispanic Studies	3
Foreign language (in the same language)	3	ENGLISH – English (Fac. Humanities)	3
ENGLISH – English (Fac. Humanities)	3	Foreign language (in the same language)	3
FILO 4031 – Logic	3	FILO – Antigua (Example: FILO 3015)	3
FILO 3000 (Free Elective in Philosophy)	3	FILO 3000 (Free Elective in Philosophy)	3
Total credits	18	Total credits	18

*The student will take 3 crs. in MUSI, 3 crs. in TEAT and 3crs. in ART or HART.

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HIST – History	3	Writing and Style Course (Example: ESPA 3028)	3
Free Elective	3	MUSI, TEAT, ARTE or HART	3
MUSI, TEAT, ARTE or HART	3	Free Elective	3
FILO – Antigua (Example: FILO 4181)	3	FILO – XX Century / Contemporary (Example: FILO 3177)	3
FILO – Modern (Example: FILO 4065)	3	FILO – Modern (Example: FILO 4245)	3
Total credits	15	Total credits	15

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
LITE – Comparative Literature	3	Free elective	3
Faculty Elective	3	Free elective	3
ESPA – Hispanic Studies	3	FILO – Free Elective in Philosophy	3
FILO – Open Elective in Philosophy (level 4000)	3	FILO – Free Elective in Philosophy	3
Free elective	3	FILO – XX Century/Contemporary (Example: FILO 4262)	3
Total credits	15	Total credits	15

BACHELOR OF ARTS WITH A CONCENTRATION IN HISTORY

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
Total credits	15	Total credits	15

*The student will take 3 crs. in HART, 3 in HART, 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
HIST (Elective in Puerto Rican History)	3	HIST (Elective in Puerto Rican History)	3
HIST (Theory of History)	3	HIST (Historical Research Methodology)	3
Total credits	15	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
Foreign Language I	3	Foreign Language II (one language)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
LITE (Comparative Literature)	3	HART or MUSIC or THEATRE *	3
HIST (Elective in the area of emphasis)	3	HIST (Elective in the area of emphasis)	3
HIST (Elective in other areas of History)	3	HIST (Elective in the area of emphasis)	3
Faculty of Humanities Open Elective	3	Free Elective	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART or MUSIC or THEATRE *	3	Faculty of Humanities Open Elective	3
HIST (Elective in other areas of History)	3	HIST (Historical Research Concentration Seminar)	3
HIST (Elective in other areas of History)	3	Free Elective	3
HIST (Concentration Seminar of Readings in History)	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3		
Total credits	18	Total credits	15

BACHELOR OF ARTS WITH A CONCENTRATION IN ART HISTORY

AREA OF EMPHASIS: WESTERN ART

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	MUSIC or THEATRE *	3
ART 3911 Fundamentals of the Visual Arts I	3	ART 3912 Fundamentals of the Visual Arts II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HART 3191 Western Art I	3	HART 3192 Western Art II	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ARTE (Directed selection in engraving)	3	ARTE (Directed selection in engraving)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Free Elective	3	Free Elective	3
MUSIC or THEATRE *	3		
Total credits	18	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ART 3913 Fundamentals of the Visual Arts III	3	ART 4998 Themes of Contemporary Artistic Practice	3
ART (Fine Arts Elective)	3	ART (Fine Arts Elective)	3
Free Elective	3	ART (Fine Arts Elective)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ARTE 4971 Research and Creation Workshop I	3	ARTE 4972 Research and Creation Workshop II	3
LITE (Comparative Literature)	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

AREA OF EMPHASIS: CARIBBEAN AND LATIN AMERICAN ART

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
Mathematical Logical Thinking	3	MUSIC or THEATRE *	3
HART 3191 Western Art I	3	HART 3192 Western Art II	3
Total credits	18	Total credits	18

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
HART 3118 Art in Puerto Rico	3	HART 3256 Art Theory	3
Free Elective	3	Free Elective	3
MUSIC or THEATRE *	3	HART (Non-Western Art Elective)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HART 3277 Pre-Hispanic Art of the West Indies	3	HART 4281 Latin American Art XV-XVII Centuries	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Foreign Language I	3	Foreign Language II (one language)	3
HART 4282 Latin American Art XVIII-XIX Centuries	3	HART 3136 Contemporary Latin American Art	3
HART (Elective in Emphasis Area)	3	HART (Elective in Emphasis Area)	3
Total credits	15	Total credits	15
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HIST (History)	3	HIST (History)	3
HART 4241 Art History Seminar I	3	HART 4242 Art History Seminar II	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
LITE (Comparative Literature)	3		
Total credits	15	Total credits	12

BACHELOR OF ARTS IN ENGLISH, LINGUISTICS AND COMMUNICATION

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ENGLISH (core course in linguistics to choose from: ENGLISH 3224, ENGLISH 4205, ENGLISH 4206 or ENGLISH 4208)	3	ENGLISH (core course in communication to choose between: ENGLISH 3065, INGL 3256, INGL 3257 or INGL 3275)	3
INGL 3275 Theories of Human Communication or INGL 4205 Linguistic Theory	3	ENGLISH 4230 Int. for Human Communication Research or ENGLISH 4237 Int. for Linguistic Research	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ENGLISH (core course in writing to choose from: ENGLISH 3231, ENGLISH 3232, INGL 3291, ENGLISH 3175, ENGLISH 3236, ENGLISH 3237, ENGLISH 3238 or ENGLISH 3286)	3	ENGLISH (core course in literature to choose from: ENGLISH 3001, ENGLISH 3002, ENGLISH 3229, ENGLISH 3251, ENGLISH 3252, ENGLISH 3259, ENGLISH 3285 or ENGLISH 4256)	3
ENGLISH (Linguistics or Communication Area of Emphasis Course Level 3000 or 4000)	3	ENGLISH (Linguistics or Communication Area of Emphasis Course Level 3000 or 4000)	3
Free Elective	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
INGL (Faculty of Humanities elective course in English)	3	ENGLISH (4000 Level Linguistics or Communication Area of Emphasis Course)	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Faculty of Humanities elective course in English)	3	INGL (Faculty of Humanities elective course in English)	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
Foreign Language I	3	Foreign Language II (one language)	3
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
Free Elective of the Fac. of Humanities	3	Free Elective	3
Free Elective of the Fac. of Humanities	3	Free Elective	3
LITE (Comparative Literature)	3		
Total credits	18	Total credits	15

BACHELOR OF ARTS IN ENGLISH - LITERATURE

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ENGLISH (core course in literature to choose from: ENGLISH 3001, ENGLISH 3002, ENGLISH 3229, ENGLISH 3251, ENGLISH 3252, ENGLISH 3259, ENGLISH 3285 or ENGLISH 4256)	3	ENGLISH (core course in writing to choose from: ENGLISH 3231, ENGLISH 3232, ENGLISH 3291, ENGLISH 3175, ENGLISH 3236, ENGLISH 3237, ENGLISH 3238 or ENGLISH 3286)	3
A course to choose from: ENGLISH 3001 ENGLISH 3002 ENGLISH 3251 ENGLISH 3252	3	A course to choose from: ENGLISH 3229 ENGLISH 3259 ENGLISH 3285 ENGLISH 4256	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ENGLISH (core course in linguistics to choose between: ENGLISH 3224, ENGLISH 4205, ENGLISH 4206 or ENGLISH 4208)	3	ENGLISH (core course in communication to choose between: ENGLISH 3065, INGL 3256, INGL 3257 or INGL 3275)	3
ENGLISH (3000 or 4000 level literature emphasis area course)	3	ENGLISH (3000 or 4000 level literature emphasis area course)	3
Free Elective	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
ENGLISH (Academic or Creative Writing Course)	3	INGL (4000 Level Literature Area of Emphasis Course)	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Faculty of Humanities elective course in English)	3	INGL (Faculty of Humanities elective course in English)	3
Foreign Language I	3	Foreign Language II (one language)	3
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
Free Elective of the Fac. of Humanities	3	Free Elective	3
Free Elective of the Fac. of Humanities	3	Free Elective	3
LITE (Comparative Literature)	3		
Total credits	18	Total credits	15

BACHELOR OF ARTS WITH A CONCENTRATION IN COMPARATIVE LITERATURE

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
LITE (3000 or 4000 level course)	3	LITE (3000 or 4000 level course)	3
		Free Elective	3
Total credits	15	Total credits	18

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
LITE 3045 Introduction to Comparative Literature	3	LITE (3000 or 4000 level course)	3
Foreign Language I	3	Foreign Language II (one language)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HIST (History)	3	HIST (History)	3
Free Elective	3	Free Elective	3
HART or MUSIC or THEATRE *	3	LITE (3000 or 4000 level course)	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
LITE 3101 Contemporary Literary Theory	3	LITE 3102 Applied Literary Theory	3
Foreign Language III (one language)	3	Faculty of Humanities Open Elective	3
Free Elective	3		
Total credits	18	Total credits	15

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Faculty of Humanities elective course in English)	3	INGL (Faculty of Humanities elective course in English)	3
Foreign Language I	3	Foreign Language II (one language)	3
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
Free Elective of the Fac. of Humanities	3	Free Elective	3
Free Elective of the Fac. of Humanities	3	Free Elective	3
LITE (Comparative Literature)	3		
Total credits	18	Total credits	15

BACHELOR OF ARTS WITH A CONCENTRATION IN MODERN LANGUAGES FOREIGN LANGUAGES - AREA OF EMPHASIS IN A LANGUAGE

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
SPANISH (EG)	3	SPANISH (EG)	3
ENGLISH (EG)	3	ENGLISH (EG)	3
HUMANITIES	3	HUMANITIES (EG)	3
CISO or CS. NATURAL (EG)	3	CISO or CS. NATURAL (EG)	3
INTENSIVE I	3	INTENSIVE II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CS. NATURAL or CISO (EG)	3	CS. NATURAL or CISO (EG)	3
LITERATURE (EG) in Spanish, English or Comparative Literature	3	LITERATURE (EG) in Spanish, English or Comparative Literature	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
LOGICAL-MATHEMATICAL THINKING (EG)	3	ARTS (EG) in Fine Arts, Music or Drama	3
INTERMEDIATE	3	WRITTEN EXPRESSION	3
ORAL EXPRESSION	3	CORE ELECTIVE	3
FREE ELECTIVE	3	FREE ELECTIVE	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ENGLISH or ESHI or LITE (HU)	3	ENGLISH or ESHI or LITE (HU)	3
PHILOSOPHY (HU)	3	PHILOSOPHY (HU)	3
Fine Arts or Music or Drama (HU)	3	Fine Arts or Music or Drama (HU)	3
CORE COURSE IN LITERATURE	3	COURSE OF EMPHASIS (LITERATURE)	3
CORE ELECTIVE	3	EMPHASIS COURSE (LINGUISTICS)	3
FREE ELECTIVE	3		
Total credits	18	Total credits	15

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ENGLISH or ESHI or LITE (HU)	3	HISTORY (HU)	3
HISTORY (HU)	3	EMPHASIS ELECTIVE	3
EMPHASIS ELECTIVE	3	EMPHASIS ELECTIVE	3
EMPHASIS ELECTIVE	3	FREE ELECTIVE	3
FREE ELECTIVE	3	FREE ELECTIVE	3
Total credits	15	Total credits	15

DUAL LANGUAGE AREAS OF EMPHASIS

(LP = main language; LS = secondary language)

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
Intensive Course I (Primary Language)	3	Intensive Course II (Primary Language)	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
Free Elective	3	HART or MUSIC or THEATRE *	3
Intermediate Course (Primary Language)	3	Written Expression Course (Primary Language)	3
Oral Expression Course (Primary Language)	3	Intensive Course II (Secondary Language)	3
Intensive Course I (Secondary Language)	3		3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Free Elective	3	HART or MUSIC or THEATRE *	3
Advanced Course (Primary Language)	3	Advanced Course (Primary Language)	3
Intermediate Course (Secondary Language)	3	Oral Expression Course (Secondary Language)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	
Total credits	18	Total credits	15

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HIST (History)	3	HIST (History)	3
LITE (Comparative Literature)	3	Advanced Course (Secondary Language)	3
Advanced Course (Primary Language)	3	Free Elective	3
Written Expression Course (Secondary Language)	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

AREA OF EMPHASIS: FRENCH AND FRANCOPHONE STUDIES

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
FRAN 3031 Intensive French I	3	FRAN 3032 Intensive French II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
FRAN 3035 Intermediate French for Specialists	3	FRAN 4008 Advanced Grammar and Composition	3
FRAN 3060 French Diction and Phonetics	3	FRAN (French Elective)	3
Free Elective	3	Free Elective	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
FRAN (French Elective)	3	FRAN (Elective in French Literature)	3
FRAN (French Elective)	3	FRAN (Advanced Elective in French)	3
LITE (Comparative Literature)	3	Free Elective	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HIST (History)	3	HIST (History)	3
FRAN (Elective in French Literature)	3	FRAN (Elective in French Linguistics)	3
FRAN (Advanced Elective in French)	3	FRAN (Advanced Elective in French)	3
Free Elective	3	Free Elective	3
Free Elective	3		
Total credits	15	Total credits	12

AREA OF EMPHASIS: ITALIAN STUDIES

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
ITAL 3001 Intensive Italian I	3	ITAL 3002 Intensive Italian II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
ITAL 3035 Intermediate Italian for Specialists	3	ITAL 4017 Advanced Grammar and Composition	3
ITAL 4016 Speaking Techniques	3	ITAL (Elective in Italian)	3
Free Elective	3	Free Elective	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
ITAL (Elective in Italian)	3	ITAL (Elective in Italian Literature)	3
ITAL (Elective in Italian)	3	ITAL (Advanced Elective in Italian)	3
LITE (Comparative Literature)	3	Free Elective	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HIST (History)	3	HIST (History)	3
ITAL (Elective in Italian Literature)	3	ITAL (Elective in Italian Linguistics)	3
ITAL (Advanced Elective in Italian)	3	ITAL (Advanced Elective in Italian)	3
Free Elective	3	Free Elective	3
Free Elective	3		
Total credits	15	Total credits	12

AREA OF EMPHASIS: LUSOPHONE STUDIES

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC or THEATRE *	3
PORT 3031 Intensive Portuguese I	3	PORT 3032 Intensive Portuguese II	3
Total credits	15	Total credits	15

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
PORT 3033 Intensive Portuguese III	3	PORT 4005 Advanced Grammar and Composition	3
PORT 4016 Speaking Techniques	3	PORT (Elective in Portuguese)	3
Free Elective	3	Free Elective	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART or MUSIC or THEATRE *	3	HART or MUSIC or THEATRE *	3
PORT (Elective in Portuguese)	3	PORT (Elective in Portuguese Literature)	3
PORT (Elective in Portuguese)	3	PORT (Elective in Portuguese)	3
LITE (Comparative Literature)	3	Free Elective	3
Total credits	18	Total credits	18

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HIST (History)	3	HIST (History)	3
PORT (Elective in Portuguese Literature)	3	PORT (Elective in Portuguese Linguistics)	3
PORT (Elective in Portuguese)	3	PORT (Elective in Portuguese)	3
Free Elective	3	Free Elective	3
Free Elective	3		
Total credits	15	Total credits	12

BACHELOR OF ARTS WITH A CONCENTRATION IN MUSIC

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	HART or TEAT	3
MUSI 3175 Introduction to Reading and Dictation I (Free Elective)	3	MUSI 3176 Introduction to Reading and Dictation II (Free Elective)	3
		MUSI 3085 Instrumental Technique I or MUSI 3075 Vocal Technique I	1
Total credits	15	Total credits	16

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
MUSI 3275 Reading and Dictation I	3	MUSI 4061 Reading and Dictation II	3
MUSI 3276 Basic Piano I	1	MUSI 4003 Basic Piano II	1
MUSI 4055 Instrumental Technique II or MUSI 4045 Vocal Technique II	1	MUSI 4131 Instrumental Technique III or MUSI 4121 Vocal Technique III	1
LITE (Comparative Literature)	3	MUSI 3115 Diatonic Harmony	3
Free Elective	3	Free Elective	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
(HART or ART) or THEATRE	3	MUSI ____ Chamber Music or Instrumental or Vocal Ensemble	1
Total credits	17	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
MUSI 4062 Reading and Dictation III	3	Free Elective	3
MUSI 4132 Instrumental Technique IV or MUSI 4122 Vocal Technique IV	1	MUSI 4133 Instrumental Technique V or MUSI 4151 Vocal Technique V	1
MUSI 4195 Chromatic Harmony	3	MUSI 4105 Modal Tailstock or MUSI 4115 Tonal Tailstock	2
MUSI 4035 Music in the Middle Ages and the Renaissance	3	MUSI 4015 Music in the Baroque and Classicism	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Foreign Language I	3	Foreign Language II (one language)	3
MUSI ____ Chamber Music or Instrumental or Vocal Ensemble	1	MUSI ____ Chamber Music or Instrumental or Vocal Ensemble	1
Total credits	17	Total credits	16

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
HIST (History)	3	HIST (History)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
MUSI 4025 Music in Romanticism and Impressionism	3	MUSI 3105 Music in the Twentieth Century and Contemporary	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
INGL (English Dept. Fac. Humanities)	3	INGL (English Dept. Fac. Humanities)	3
MUSI ____ Chamber Music or Instrumental or Vocal Ensemble	1	Free Elective (Musical group - suggested)	1
MUSI 4134 Instrumental Technique VI or MUSI 4152 Vocal Technique VI	1		
Total credits	17	Total credits	16

BACHELOR OF ARTS WITH A CONCENTRATION IN DRAMA

AREA OF EMPHASIS: GENERAL

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	TEAT 3025 Appreciation of the Theatre or TEAT 3145 Panorama of Puerto Rican Theatre or another theoretical course whose curriculum includes the analysis of dramatic texts.	3
TEAT 3101 History of the Theatre I	3	TEAT 3102 History of the Theatre II	3
		HART or MUSIC*	3
Total credits	15	Total credits	18

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
A course to choose from: TEAT 3161 Pantomime I TEAT 3035 Body Movement TEAT 3301 Contemporary Dance for Actors	3	TEAT (Elective in Theatre)	3
TEAT 3011 Action I	3	TEAT 3031 Diction I	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
A course to choose from: TEAT 4201 Lighting I TEAT 4131 Set Design I TEAT 4101 Costume Design I	3	A course to choose from: TEAT 4201 Lighting I TEAT 4131 Set Design I TEAT 4101 Costume Design I	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	3
LITE (Comparative Literature)	3	HART or MUSIC*	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
TEAT (Elective in Theatre)	3	TEAT 4211 Stage Direction I	3
HIST (History)	3	HIST (History)	3
TEAT (Elective in Theatre)	3	TEAT (Elective in Theatre)	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

AREA OF EMPHASIS: PERFORMANCE

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	HART or MUSIC*	3
TEAT 3025 Appreciation of the Theatre or TEAT 3145 Panorama of Puerto Rican Theatre or another theoretical course whose curriculum includes the analysis of dramatic texts.	3	TEAT 3161 Pantomime I or TEAT 3035 Body Movement or TEAT 3301 Contemporary Dance for Actors	3
		TEAT 3031 Diction I	3
Total credits	15	Total credits	18

*The student will take 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
TEAT 3101 History of the Theatre I	3	TEAT 3102 History of the Theatre II	3
TEAT 3011 Action I	3	TEAT 3012 Action II	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Total credits	15	Total credits	15

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
TEAT 4201 Lighting I or TEAT 4131 Set Design I or TEAT 4101 Costume Design I	3	TEAT 4201 Lighting I or TEAT 4131 Set Design I or TEAT 4101 Costume Design I	3
TEAT 4031 Action III	3	TEAT (Elective of the area of action)	3
Foreign Language I	3	Foreign Language II (one language)	3
Free Elective	3	Free Elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART or MUSIC	3		
Total credits	18	Total credits	15

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
LITE (Comparative Literature)	3	TEAT 4211 Stage Direction I	3
HIST (History)	3	HIST (History)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
TEAT (Elective of the area of action)	3		
Total credits	18	Total credits	15

AREA OF EMPHASIS: THEATRICAL DESIGN AND TECHNIQUE

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
Mathematical Logical Thinking	3	TEAT 3025 Appreciation of the Theatre or TEAT 3145 Panorama of Puerto Rican Theatre or another theoretical course whose curriculum includes the analysis of dramatic texts.	3
TEAT 3101 History of the Theatre I	3	TEAT 3102 History of the Theatre II	3
		HART or MUSIC*	3
Total credits	15	Total credits	18

*The student will take 3 crs. in HART and 3 crs. MUSI.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
A course to choose from: TEAT 3031 Diction I TEAT 3035 Body Movement TEAT 3161 Pantomime I TEAT 3301 Contemporary Dance for Actors	3	TEAT 4201 Lighting I	3
TEAT 3011 Action I	3	TEAT (Elective in the Area of Theatrical Design and Technique)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
TEAT 4131 Set Design I	3	TEAT 4101 Costume Design I	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
Foreign Language I	3	Foreign Language II (one language)	3
LITE (Comparative Literature)	3	HART or MUSIC*	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
TEAT (Elective in the Area of Theatrical Design and Technique)	3	TEAT 4211 Stage Direction I	3
HIST (History)	3	HIST (History)	3
TEAT 4102 Costume Design II or TEAT 4132 Set Design II or TEAT 4202 Lighting II	3	TEAT 4102 Costume Design II or TEAT 4132 Set Design II or TEAT 4202 Lighting II	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	15	Total credits	15

BACHELOR OF ARTS WITH A CONCENTRATION IN INTERDISCIPLINARY STUDIES AREA OF EMPHASIS: CREATIVE WRITING

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
HART or MUSIC or THEATRE *	3	Mathematical Logical Thinking	3
Total credits	18	Total credits	18

*The student will take 3 crs. in HART and 3 crs. TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
ESIN 3003 Fundamentals of Interdisciplinary Studies	3	ESIN 4003 General Creative Writing Practice	3
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Foreign Language I	3	Foreign Language II (one language)	3
HIST (History)	3	HIST (History)	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
FILO (Philosophy)	3	FILO (Philosophy)	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
(ART or HART) or MUSIC or THEATRE *	3	(ART or HART) or MUSIC or THEATRE *	3
LITE (Comparative Literature)	3	Faculty Free Elective	3
ESIN 3403 Citizen Sense and Ethics	3	** Directed selection in Writing	3
Faculty Free Elective	3	** Directed selection in Writing	3
** Directed selection in Writing	3	** Targeted selection in general	3
** Directed selection in Writing	3		
Total credits	18	Total credits	15

** See the lists of directed selection courses in Writing and Directed Selection in general available in the Creative Writing section of the PREI website.

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESIN 4395 Interdisciplinary Internship	3	ESIN 4090 Seminar on the Integration of Interdisciplinary Studies	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	12	Total credits	12

AREA OF EMPHASIS: FILM AND AUDIOVISUAL STUDIES

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
HART or MUSIC or THEATRE *	3	Mathematical Logical Thinking	3
Total credits	18	Total credits	18

*The student will take 3 crs. in HART, 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
ESIN 3003 Fundamentals of Interdisciplinary Studies	3	ESIN 4187 Film Theory and Criticism	3
INGL (Dept. of English Faculty of	3	INGL (Dept. of English Faculty of	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
Humanities)		Humanities)	
Foreign Language I	3	Foreign Language II (one language)	3
HIST (History)	3	HIST (History)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
(ART or HART) or MUSIC or THEATRE *	3	(ART or HART) or MUSIC or THEATRE *	3
LITE (Comparative Literature)	3	Faculty Free Elective	3
ESIN 3403 Citizen Sense and Ethics	3	** Targeted selection	3
Faculty Free Elective	3	** Targeted selection	3
** Targeted selection	3	** Targeted selection	3
** Targeted selection	3		
Total credits	18	Total credits	15

** See the lists of directed selection courses on the back of the academic evaluation sheet available in the Film and Audiovisual Studies section of the PREI website.

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESIN 4395 Interdisciplinary Internship	3	ESIN 4090 Seminar on the Integration of Interdisciplinary Studies	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	12	Total credits	12

AREA OF EMPHASIS: PRE-LEGAL STUDIES

FIRST YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA by level (General Studies)	3	ESPA by level (General Studies)	3
ENGLISH by level (General Studies)	3	ENGLISH by level (General Studies)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI or CIFI (General Studies)	3	CIBI or CIFI (General Studies)	3
CISO 3121 (General Studies)	3	CISO 3122 (General Studies)	3
HART or MUSIC or THEATRE *	3	Mathematical Logical Thinking	3
Total credits	18	Total credits	18

*The student will take 3 crs. in HART, 3 crs. in MUSI and 3 crs. in TEAT.

SECOND YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
ESIN 3003 Fundamentals of Studies	3	ESIN 3401 Fundamentals of Law	3

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
Interdisciplinary			
INGL (Dept. of English, Faculty of Humanities)	3	INGL (Dept. of English, Faculty of Humanities)	3
Foreign Language I	3	Foreign Language II (one language)	3
HIST (History)	3	HIST (History)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Total credits	18	Total credits	18

THIRD YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
(ART or HART) or MUSIC or THEATRE *	3	(ART or HART) or MUSIC or THEATRE *	3
LITE (Comparative Literature)	3	Faculty Free Elective	3
ESIN 3403 Citizen Sense and Ethics	3	**Directed selection in Social Sciences	3
Faculty Free Elective	3	**Directed selection in Social Sciences	3
**Directed selection in Social Sciences	3	**Directed selection in Social Sciences	3
**Directed selection in Social Sciences	3		
Total credits	18	Total credits	15

** See the lists of courses for directed selection in the Social Sciences and directed selection in general available in the Pre-Legal Studies section of the PREI website.

FOURTH YEAR

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
ESIN 4395 Interdisciplinary Internship	3	ESIN 4090 Seminar on the Integration of Interdisciplinary Studies	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total credits	12	Total credits	12

The student can choose to either take ESIN 4395 to complete his/her internship in the private or non-profit sector, or take ESIN 4012-Legal Internship and ESIN 4013-Legal Internship II at the UPR School of Law, which is required to be taken both, and for which ESIN 4012 will serve as ESIN 4395 and ESIN 4395 and ESIN 4013 will count as the course targeted selection in general.

FACULTY OF HUMANITIES

- Acevedo Lucio, Carmen; MN, University of Cincinnati, 1978; Professor.
- Albuyeh, Ann; Ph.D., University of Wisconsin-Madison, 1985; Professor.
- Alemán Iglesias, Javier; Ph.D., Inter-American University of PR, 2012.
- Alonso Rivera, Ernesto; Ph.D., Historical Musicology, Catholic University of America, 2002, Professor.
- Álvarez González, Jorge; M.A., University of Puerto Rico (Río Piedras), 2018, J.D., University of Puerto Rico (Río Piedras), 2006.
- Alicea Rodríguez, Dennis; Ph.D., Brown University, 1987, Assistant Professor.
- Álvarez Nieves, Alejandro; Ph.D., University of Salamanca, 2013, Assistant Professor.
- Álvarez Santana, Luis M.; M.A., Indiana University, 1971; Professor.
- Andersen, Sven; Ph.D., University of Florida, 2011; Associate Professor.
- Aponte González, Mila.; M.A., New York University, 2004.
- Auerbach, David A.; Ph.D., City University of New York, 1993; Professor.
- Ayala Santiago, Mario; Ph.D., University of Puerto Rico (Río Piedras), 2010, Research Assistant II.
- Baerga Santini, María del C.; Ph.D., State University of New York, 1997; Professor.
- Báez Rivera, Emilio R; Ph.D., University of Seville, 2005; Professor.
- Baibeche, Abderramane; Ph.D., Sorbonne University, Paris III, 1998; Professor.
- Barnes Sloan, H. J.; M.A., University of Puerto Rico (Río Piedras), 2004.
- Baumann Rivera, Pierre D.; Ph.D., City University of New York, 2008; Associate Professor.
- Bernabe Riefkohl, Rafael; Ph.D., State University of New York, 1989; Researcher.
- Bofill Calero, Sylvia; M.A., Columbia University, 2006, Associate Professor.
- Bonilla Nieves, Amexis; JD, Inter-American University, 2006.
- Bosch Irizarry, Agnes M.; Ph.D., Sorbonne Nouvelle, 2006, Professor.
- Bravo López, Laura; Ph.D., Universidad Autónoma de Madrid (2003), Professor.
- Caamaño, Josué, M.A., University of PR, 2006.
- Cabrer Montalvo, Carlos R.; Ph.D., University of London, 2000; Associate Professor.
- Cabrera Salcedo, Lizette; Ph.D., University of Puerto Rico (Río Piedras), 2005.
- Cabrera Salcedo, Sunny; Ph.D., University of Massachusetts, 1999, Professor.
- Cardona Colom, Sofia I.; Ph.D., University of Massachusetts, 1988; Professor.
- Cardona Morales, Cezanne; M.A., University of Puerto Rico (Río Piedras) 2012.
- Cardona Ortiz, Maritza; M.A., University of Puerto Rico (Río Piedras), 2012.
- Castro Ferrer, María Inés; Ph.D., University of Puerto Rico (Río Piedras), 2002; Professor.
- Cintrón Moscoso, Carola, MFA, School of Visual Arts, New York, 2004.
- Cintrón Ortiz, Lynette; M.A., University of Puerto Rico (Río Piedras), 2008.

- Climent Palmer, Juan; M.A., International Graduate School, Granada, 2018.
- Collazo Rivera, María; Ph.D., University of Puerto Rico (Río Piedras), 2010.
- Collins Klobah, Loretta K.; Ph.D., University of Iowa, 1999; Professor.
- Colón Flores, Jesús, BM Conservatory of Music of Puerto Rico, 2021.
- Colón Pérez, Dialitza; Ph.D., Autonomous University of Barcelona, 2012, Assistant Professor.
- Colón Rolón, Félix, MFA, University of California Irvine, 2022.
- Colón Vázquez, Hazel; M.A., University of Puerto Rico, 2015.
- Conlan, James P.; Ph.D., University of California, 1999; Professor.
- Corchado González, Nelson M.; MN, Michigan State University, 2003; Adjunct Professor.
- Corchado Robles, Brenda L.; Ph.D., University of Puerto Rico (Río Piedras), 2010.
- Cosme Rosario, Windy; M.A., University of Puerto Rico, 2014.
- Cruz Corchado, Raymond; Ph.D., Universitat Politècnica de València (2022).
- D'Agostino, Giovanni R.; Ph.D., University of Toronto, 2000; Professor.
- Dávila Del Valle, Óscar, M.A., University of Puerto Rico, RP, 1986.
- De Choudens Martínez, Indira; Ph.D., Complutense University, 2023.
- De Freitas Gomides, Camilo; Ph.D., Tulane University, 2003; Professor.
- De Jesús Carrasquillo, José Daniel, BM Conservatory of Music of Puerto Rico, 1992.
- De Pablos Escalante, Raúl E.; Ph.D., Complutense University, 2012; Professor.
- Deng, Meili; Ph.D., University of Puerto Rico (Río Piedras), 2007, Assistant Professor.
- Díaz Calcaño, Tamara; Ph.D., Universidad Complutense de Madrid (2019).
- Díaz Hiraldo, Nildamarie; M.A., University of Phoenix, 2011.
- Dupey Heding, Robert John; Ph.D., University of Puerto Rico (Río Piedras), 2006; Professor.
- Duprey Colón, Jacqueline; MFA, Yale University, 1997; Professor.
- Expósito Sánchez, Daniel; Ph.D., University of Seville (2015), Associate Professor.
- Faraclas Photakis, Nicholas G.; Ph.D., University of California, 1989; Professor.
- Feliú Matilla, Fernando Alfonso; Ph.D., University of California, 1994; Professor.
- Ferrer Higuera, Bruno; Ph.D., University of Barcelona, 2003; Professor.
- Franco-Müller, Israel; Ph.D., Universidad Complutense de Madrid, 2021; Associate Professor.
- García Gonzalez, Sylma; Ph.D., University of Puerto Rico (Río Piedras), 2009.
- García López, Carola; Ph.D., Center for Advanced Studies, 2006; Adjunct Professor.
- García Nevares. Luis A; Ph.D., University of Salamanca, 2016; Associate Professor.
- García Rivera, Edgar M.; MFA, University of California Los Angeles (UCLA), 1998; Associate Professor.
- García Rivera, Martin; MFA, Pratt Institute, 1988; Associate Professor.
- Gaspar Concepcion, Jessica; Ph.D., University of Madison-Wisconsin, 2005; Professor.

- Ghigliotty Adames, Maria T.; BA, University of Puerto Rico (Río Piedras), 1982.
- Ghibillebaert, Françoise; Ph.D., Texas University, 1996; Professor.
- González Pérez, Víctor; M.A., University of Puerto Rico; 2021.
- González Vélez, Mirerza; Ph.D., University of Iowa, 2002; Professor.
- Grant, Norman; Ph.D., University of Puerto Rico (Río Piedras), 2020.
- Guzzardo Tamargo, Rosa, PhD Pennsylvanianna State University, 2012; Professor.
- Heffelfinger Nieves, Cristal; Ph.D., University of Puerto Rico, Río Piedras Campus, 2019; Assistant Professor.
- Helmer, Étienne; Ph.D., University of Paris I, 2004; Professor.
- Hernández Sanabria, Ana T. University of Puerto Rico, 2016.
- Hernández Torres, Carmen N.; Ph.D., University of Puerto Rico (Río Piedras), 1994; Professor.
- Hsu, Peiyi; M.A., Cleveland State University, 2016.
- Iguina Monrouzeau, José R.; Ed D., Harvard University, 1993; Professor.
- Jackson Martin, Rafael; Ph.D., Universidad Autónoma de Madrid, 1998, Professor.
- Javier Rivera, María de Lourdes; Ph.D.; Ph.D., University of Salamanca, 2016.
- Jiménez Martínez, Ingrid; Ph.D., University of Seville, 2001; Professor.
- Joseph Haynes, Marisol; Ph.D., University of Puerto Rico (Río Piedras), 2019.
- Juarbe Botella, Rosa M.; Ph.D., New York State University, 1998.
- Kuwabong Bolale, Dannabang; Ph.D., McMaster University, 1997; Professor.
- Latorre Lagares, Elidio; Ph.D., Center for Advanced Studies, 2009, Assistant Professor.
- Lauzardo Ugarte, Aurora; Ph.D., Princeton University, 1990; Professor.
- Lee Borges, José; PhD., University of PR, 2012.
- Lima de Jesús, Rosa L.; M.A., Arizona State University, 2001.
- López Baralt, Luce; Ph.D., Harvard University, 1974; Professor Emeritus.
- López Baralt, Mercedes; Ph.D., Cornell University, 1980; Professor, Professor Emeritus.
- López Hernández, Zulimar; Artist Diploma, Voice Performance, Mannes College, 2011.
- López Jorge, Eric; PhD., University of PR, 2019.
- Lugo Acevedo, María L.; Ph.D., University of Puerto Rico (Río Piedras), 1995; Professor.
- Lugo Beltrán, Dorian; Ph.D., University of Puerto Rico, Río Piedras, 2007; Professor.
- Luna Rodríguez, Noel, PhD., Princeton University, 2003; Professor.
- Luzzi Traficante, Nicolás; Ph.D., Universidad Complutense de Madrid, 2015; Associate Professor.
- Luzzi Traficante, Marcelo; PhD., Universidad Autónoma Madrid, 2014.
- Maclennan, Janet; Ph.D., Ohio University, 2000; Professor.
- Mather, Patrick-André; Ph.D., University of Pittsburgh, 2000, Professor.
- Mater O'Neill, Mari; Ph.D., Northumbria School of Design, 2014.

- Milantchi Yassami, Setare, M.Phil. Yale University, 1982.
- Millán Álvarez, Néstor; MFA, Pratt Intstitute, 1988; Professor.
- Morales Rolón, Joel; M.A., Comparative Literature, University of Puerto Rico, Río Piedras Campus, 2018.
- Morell Marrero, Idalia; Ph.D., University of Puerto Rico (Río Piedras), 2007.
- Moreno Viqueira, Ileana; Ph.D., Columbia University, 2013.
- Muñoz de Frontera, Nérida; Ph.D., New York University, 1987; Professor.
- Narváez Córdova, María T; Ph.D., University of Puerto Rico (Río Piedras), 1988; Professor.
- Natarajan, Nalini; Ph.D., Aberdeen University, 1984; Professor.
- Náter Maldonado, Miguel A.; Ph.D., University of Puerto Rico (Río Piedras) 2002; Professor.
- Neváres Araujo, Daniel; Ph.D., University of Massachusetts-Amherst, 2018; Assistant Professor.
- Ocasio Meléndez, Marcial; Ph.D., Michigan State University, 1988; Professor.
- Ojeda Rosario, Marisol; M.A., University of Texas, 1988.
- Ortiz López, Luis A.; Ph.D., University of New Mexico, 1996; Professor.
- Otero Garabis, Juan; Ph.D., Harvard University, 1998; Professor.
- Otto Olivieri, Rosabel; B.A., University of Puerto Rico (Río Piedras), 1983.
- Pabón Ortega, Carlos; Ph.D., Massachusetts University, 1992; Professor.
- Paes de Carvalho, Fernando; Ph.D., Polytechnic University of Valencia, Spain, 2016, Professor.
- Pagán Mattos, Marla; Ph.D., University of Pennsylvania, 2012, Assistant Professor.
- Pateiro Mochila, Miguel; Ph.D., University of Évora, 2021, Assistant Professor.
- Pecho Crespo, Marcos; M.A., University of Puerto Rico (Río Piedras), 2015.
- Pérez Hernández, Marilú; Ph.D., Indiana University, 2002; Professor.
- Pérez Marín, Carmen I.; Ph.D., Harvard University, 1990; Professor.
- Pérez Ortiz, Melanie A.; Ph.D., Stanford University, 1999; Professor.
- Pérez Quiñones, Samuel N.; DMA, University of Michigan, 1979; Professor.
- Philippe, Antoine; Ph.D., University of California, 2002; Professor.
- Phillips, Pamela Faith; Ph.D., Washington University, 1997; Professor.
- Piazza De la Luz, Ivonne; Ph.D., University of Puerto Rico (Río Piedras) 2014; Assistant Professor.
- Piñeiro Díaz, Efraín; M.A., Montclair State University, 1990.
- Polhill, Marian; Ph.D., Cornell University, 2002, Professor.
- Ponte Cobo, Nora Elsa; Ph.D., New York State University, 2008; Professor.
- Pujals Ramirez, Sandra; Ph.D., Georgetown University, 1999; Professor.
- Quiñones Maldonado, Gabriel; Ph.D., Bircham International University, 2018.
- Quintero Rivera, Mareia; Ph.D., University of São Paulo, 2002; Professor.

- Quintero, Maria; M.A., University of Puerto Rico (Mayagüez), 2008.
- Quinteros Meléndez, Alejandro; Ph.D., University of Plymouth, 2021; Professor.
- Ramírez Nieves, Emmanuel; Ph.D., Harvard University, 2015.
- Ramos Borges, Melisa; Ph.D., Universidad Complutense de Madrid (2020).
- Ramos, Francisco José; Ph.D., Universidad Complutense de Madrid, 1980; Professor.
- Ramos Soler, Isabel; MFA, Harvard University, 2001.
- Reina Pérez, Pedro; Ph.D., Center for Advanced Studies of PR and the Caribbean, 1998, Professor.
- Ríos Camacho, Rubén; M.A., Music Performance: Woodwinds Southern Illinois University (SIU), 2021.
- Rivera Belaval, José; M.A., University of Puerto Rico (Río Piedras), 2020.
- Rivera Casellas, Zaira O.; Ph.D., University of Massachusetts, 2003; Professor.
- Rivera Castillo, Yolanda; Ph.D., University of California, 1994; Professor.
- Rivera Guzmán, Félix J.; DMA, University of Miami, 1993; Professor.
- Rivera Hernández, Roselina; M.A., Middlebury College, 2000.
- Rivera Martínez, David; M.A., Cambridge College, 2004.
- Rivera Ríos, Limari; Ph.D., University of Puerto Rico (Río Piedras) 2016; Assistant Professor.
- Rivera Ruiz, Álvaro; PhD., Center for Advanced Studies of PR and the Caribbean, 2017.
- Rivera Toro, Quintín; PhD., Universitat Politècnica de Valencia, 2019.
- Rivera, Carmen H.; Ph.D., Northwestern University, 2001, Professor.
- Rodríguez Guzmán, Felipe, M.A. Trumpet Performance, Rutgers University, New Jersey, 2009.
- Rodríguez Martínez, Gabriel; Ph.D., University of Salamanca, 2018.
- Rodríguez Concepción, Isel; Ph.D., Arizona State University, 2010.
- Rodríguez Rodríguez, Eduardo (Lalo), M.A., Université de Paris, 1987, Associate Professor.
- Rodulfo Rojas, Jorge; Ph.D., University of Puerto Rico (Río Piedras), 2016; Assistant Professor.
- Rojas Osorio, Carlos; Ph.D., Universidad de Javeriana, 1981, Professor Emeritus.
- Rosario Camareno, Harry; M.A., New England Conservatory of Music, 1977; Associate Professor.
- Rubio Sexto, Pablo; M.A., Buffalo University, 1983; Professor.
- Ruiz Valarino, Carlos M.; MFA, Rochester Institute of Technology, 1999; Associate Professor.
- Santiago Diaz, Irvin; Ed.D, Interamerican University, 2018.
- Santiago Hernández, Wilfredo.
- Santory Jorge, Anayra, Indiana University, Bloomington, 1994, Professor.
- Scheuer, Monique; M.A., Université des Antilles, 2020.

- Sharp, Michael S.; Ph.D., University of Wisconsin, 1985; Professor.
- Sifres Fernández, Vincent; Ph.D., University of PR, 2015.
- Simounet Bey, Alma; Ph.D., Inter-American University, 1987; Professor.
- Sola Garcia, Cesar J.; Ph.D., University of Michigan, 1999; Professor.
- Sorroche, Juan; B.A., Lausanne University, 2000; Associate Professor.
- Sotomayor Velázquez, Celia; MA of Arts, Musik und Kunst Privatuniversität Wien, Opera 2011.
- Speakes Diaz, Eugene; M.A., University of Puerto Rico (Río Piedras), 2020.
- Stanchich Machiavello, Maritza; Ph.D., University of California, 2003; Professor.
- Stoyanova Mogilevskaia, Tinna; Ph.D., St. Petersburg University, 2003.
- Swope, Richard A.; Ph.D., West Virginia University, 2001; Professor.
- Torres Rivera, Yvette; M.A., University of Puerto Rico (Río Piedras), 1977; Professor.
- Trelles Hernandez, Mercedes; Ph.D., Harvard University, 2002; Associate Professor.
- Ursulín Mopsus, Diana; M.A., University of Puerto Rico (Río Piedras), 2008.
- Vando Arroyo, Miguel Ángel; MFA, New York University, 1998; Associate Professor.
- Vázquez Miranda, Viveca; M.A., New York University, 1983; Professor.
- Vera Velázquez, Velissa; M.A., Middlebury College, 2006.
- Vilar Piña, Ada M.; DML, Middlebury College, 1979.
- Villanua, Maria D.; Ph.D., Brown University, 2012; Assistant Professor.
- Walicek Lindley, Don; Ph.D., University of Puerto Rico (Río Piedras), 2009; Professor.
- Ward, Margaret Charlotte; Ph.D., Harvard University, 1981; Professor.
- Zambrana García, Rocío, New School for Social Research, New York, 2010. Assistant Professor.
- Zayas Collet, Yaritza; D.M.A. Voice Performance University of Illinois 201
- Zere, Geraldine; M.A., Institut Supérieure-Paris, 2009.

HUMANITIES COURSES

ALEM 3001 Intensive German I (5 hours– 3 crs.)

Course aimed at students with no previous knowledge of the language. It is focused on the development of communicative competence through the practice of the four functional skills of the target language (listening, speaking, reading, writing) and contact with culture. It emphasizes the careful study of German idioms as well as other expressive registers in this language. Face-to-face, online and hybrid course. Prerequisite: ALEM 3001L – Intensive German Laboratory I (2.5 hours– 0 crs.)

ALEM 3002 Intensive German II (5 hours– 3 crs.)

(Prerequisite: ALEM 3001) Continuation of the ALEM 3001 course. It focuses on the development of communicative competence through the practice of the four functional skills of the German language (listening, speaking, reading, writing) and contact with culture. Face-to-face, online and hybrid course.

Correct: ALEM 3002L – Intensive German Laboratory II (2.5 hours– 0 crs.)

ALEM 3035 Intermediate German (3 crs.)

(Prerequisite: ALEM 3002) Further learning of language structures, vocabulary expansion, comprehension of texts and practice of oral and written communication skills in German. Face-to-face, online and hybrid course.

ALEM 4016 Speaking Techniques (3 crs.)

(Prerequisite: ALEM 3035) Study of verbal communication skills in the German language, in situations of everyday life, academic and professional, such as: self-presentation, review, presentation of documents, argumentative report and debate, based on multimedia documents. The registers of language and its dialectal variations, the rhetorical and cultural strategies, the vocabulary and grammatical elements required in each situation or discursive genre studied will be addressed. Topical materials related to the German-German language will be chosen. Face-to-face, online and hybrid course.

ALEM 4009 Advanced Grammar and Composition (3 crs.)

(Prerequisite: ALEM 3035) Advanced grammar and composition practice, with an emphasis on stylistic and syntactic analysis. Face-to-face, online and hybrid course.

ALEM 3052 German Literature (3 crs.)

(Prerequisite: ALEM 3035)

ALEM 4003 Pragmatic Analysis of the Language of the German Media (3 crs.)

(Prerequisite: ALEM 3035) This course is an advanced course for students who have completed the third semester of German or its equivalent. The course provides students with the necessary language skills to use, understand and master the language of German media. The four language skills will be used and assessed: listening, listening, speaking, reading and writing. In addition, the use of modern technology in this course will also be used. It will lead students to a better knowledge of the culture in German-speaking countries. Face-to-face, online and hybrid course.

ALEM 4005 Goethe (3 crs.)

(Prerequisite: ALEM 3035) Advanced course for students who have completed the third semester of German or its equivalent. The course offers a historical overview of the life and work of the German national poet J. W. von Goethe. The representation of his literary works in modern media, particularly in cinema, can also be studied. Technology-assisted course.

ALEM 4015 Independent study in German (3 crs.)

(Prerequisite: ALEM 3035) Directed research in the area of German around topics, theoretical approaches or problems of the discipline, of individual interest. The course may be taken a maximum of two times (6 credits) under different topics.

ALEM 4025 Introduction to German Linguistics (3 crs.)

(Prerequisite: ALEM 3013) Brief lecture study and discussion of basic concepts, constituent elements and levels of analysis of German linguistics. Phonological, vowel and consonant segments, phonological processes, phonemes and allophones, morphemes, word categories, phrases, lexical semantics; Study of the dialectal variation (phonetic and lexical) of the German language according to geographical and social criteria.

ALEM 4105 German Cinema (3 crs.)

(Prerequisite: ALEM 3035) Critical study in the form of a lecture and discussion of film production in the German language, taking into consideration historical, literary, socio-political, aesthetic, linguistic and cultural aspects in which it is developed, aimed at students of German as a foreign language, in order to broaden and strengthen their knowledge of the target language, as well as to diversify and complement the student's cultural background. The course may be taken a maximum of two times (6 credits) under different topics. An interdisciplinary perspective will be encouraged.

ALEM 4216 Advanced Study in German (3 crs.)

(Prerequisite: ALEM 3035) Development of communication skills at an advanced level. Course content may vary from semester to semester. Face-to-face, online and hybrid course.

ALEM 4501 German Civilization I (3 crs.)

(Prerequisite: ALEM 3035) This is an advanced course for students who have completed the third semester of German or its equivalent. The course provides a historical overview of German civilization from the beginning to World War II. Students will also be able to study the particularities of German civilization and how it shaped society current. This course also provides an overview of the civilizations of German-speaking countries in the European context. Face-to-face, online and hybrid course.

ALEM 4502 German Civilization II (3 crs.)

(Prerequisite: ALEM 3035) This is an advanced course for students who have completed the third semester of German or its equivalent. The course provides a historical overview of German civilization from the end of World War II to the year 2000. In particular, the differences between the two political and ideological systems will be contrasted.

divided Germany and its impact on today's society. This course also offers an insight into of the civilizations of the German-speaking countries in the contemporary European context. Face-to-face, online and hybrid course.

ARAB 3015 Arabic as a Research Tool I (3 hours– 3 crs)

Introductory course in standard modern Arabic for students with research approaches or interests that require a basic knowledge of Arabic. Based on the reading and analysis of selected sources, both original and adapted for pedagogical reasons, fundamental notions of Arabic grammar, as well as nominal and verbal morphology of modern Arabic, will be studied. Emphasis will be placed on the acquisition of vocabulary to read basic texts and use philological reference resources. Also, to complement the grammatical study of standard modern Arabic, we will watch contemporary Arabic films.

ARAB 3001 Arabic I (5 hours– 3 crs.)

This course is aimed at beginner students and is focused on learning Arabic as a foreign language through the practice of the four functional skills of the Arabic language: listening, speaking, reading, and writing. Basic language acquisition will be addressed from the perspective of diversity and its historical and cultural dimension.

ARAB 3002 Arabic II (5 hours– 3 crs.)

(Prerequisite: ARAB 3001) Course to learn Arabic as a foreign language and as a historical and cultural dimension, with its particularities and differences. The skills and abilities learned in the Basic Arabic Course I will be developed. They will be applied in the management of the conversational and the written.

ART 3009 Art & Art Healing

Three credits. Four and a half hours of workshop per week Prerequisites: None

Modality: Face-to-face

Description: Interdisciplinary course in visual arts and its practical application to the medical humanities in order to provide an integrated experience between perception, sensitivity, creativity, the human condition, pain and suffering. The course develops skills of observation, analysis, empathy and self-reflection based on the practical exercise, both creative and discursive, of the visual arts.

ART 3035 Community Cultural Development

Three credits. Four and a half hours of workshop 6 credits in 2 of the following courses: ART 3911, ARTE3912, ART 3913

Modality: Face-to-face, Hybrid, Online

Description: Research of effective case studies related to community art projects in Puerto Rico and other countries. Emphasis will be placed on the design of strategies to achieve transformations in collectives and how to self-manage projects.

ART 3053 - Digital Image I

Three credits. Four and a half hours of workshop, lectures, and continuous supervision per week. Prerequisites: ART 3912

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the techniques and processes in the creation of digital images, with a theoretical and practical analysis of the social, political and cultural uses and functions of the digital image in contemporary art.

ART 3054 - Digital Image II

Three credits. Four and a half hours of workshop per week. Prerequisite: ART 3053

Modality: Face-to-face

Description: Continuation of the learning of techniques and processes in the creation of digital images using computer programs for the production of works of an interactive nature and moving image.

ART 3063 - Sonic Art I

Three credits. Four and a half hours of workshop, lectures, and continuous supervision per week. Prerequisites: ART 3912

Modality: Face-to-face, Hybrid, Online

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

ART 3064 - Sonic Art II

Three credits. Four and a half hours of workshop per week. Lectures and supervision continue to students.

Prerequisite: ART 3063. Continuation of the ARTE 3063 course.

Modality: Face-to-face

Description: Study of the advanced aspects of reasoning, methodology and practice of the plastic manifestations of sonic art in the modern and contemporary arts. Lectures, discussions and workshops on the historical, formal, technical and conceptual elements of sonic media in the visual arts. This course is open to all undergraduates and is an elective aimed at students in the Art and Technology major of the Fine Arts concentration. Its purpose is for the student to acquire a vision, understanding and deep skill of the advanced techniques and concepts of the creation and use of sound as a plastic medium.

ART 3071 - Digital Animation I

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

Prerequisites: ART 3054, ART 3073 and ART 3063.

Modality: Face-to-face

Description: Introductory course to the reasoning, methodology and practice of digital animation in the contemporary visual arts. Conference, discussion and workshop on the formal, technical and conceptual elements of digital animation in its two-dimensional manifestations in the visual arts. This course is an elective aimed at students majoring in art and technology from the fine arts concentration. Its purpose is for the student to acquire a panoramic vision of the theoretical and technical foundations of animation as a contemporary plastic medium.

ART 3073 - Digital Video I

Three credits. Four and a half hours of workshop per week. Prerequisites: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the techniques and processes of non-linear digital video editing. The computer is used as an editorial for the capture, editing, manipulation and reproduction of digital video: the contemporary forms and uses of digital video are studied: interactive DVD and CD-ROM, internet, installations and other traditional plastic media. The theoretical and practical bases of the visual history of video art and its social, political and cultural functions in contemporary art are analyzed. Undergraduate Catalogue 2015 406

ART 3074 - Digital Video II

Three credits. Four and a half hours of workshop per week. Continuous lectures and supervision of students.

Prerequisite: ART 3073. Continuation of the ARTE 3073 course.

Modality: Face-to-face

Description: Study of advanced aspects in non-linear editing and production, methodology and practice in the creation and conceptualization of video as a plastic medium. Lectures, discussions and workshops on the theories and critique of plastic contemporaneity in video art. This course is open to all undergraduate students and is an elective aimed at students in the fine arts department's area of specialization in art and technology. Its purpose is for the student to acquire knowledge and advanced practice in the use of techniques and theories in the field of digital video aimed at their use in contemporary plastic arts.

ART 3080 - Multimedia

Three credits. Four and a half hours of workshop per week. Prerequisites: ART 3902

Modality: Face-to-face

Description: Historical, critical, theoretical, technical and practical study of the creation of multimedia as a plastic medium. The fundamentals of Lingo programming and the creation of images, video

and digital sound. The use of these elements is proposed for the creation of an interactive environment oriented towards their dissemination and plastic use on the internet.

ART 3091 - Physical Computing I

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

Prerequisites: ART 3054

Modality: Face-to-face

Description: Introductory course to the methodologies, theories and techniques of physical computing aimed at the visual arts. Lecture, discussion and workshop on historical, formal, technical elements

and conceptual aspects of the areas that make up physical computing: electronics, construction and robotics. This course is an elective aimed at students in the area of art specialization and technology of concentration in plastic arts. Its purpose is for the student to acquire knowledge and practice in the use of technologies in the field of physical computing for the creation of plastic works of a physical interactive nature.

ART 4097 Advanced Workshop in Digital Art I, II, III

Three credits: Four and a half hours of weekly workshop

Prerequisites: ARTE 3054– Digital Image II, plus 3 elective credits in Digital Art and authorization from the teacher.

Modality: Face-to-face

Course description: Creation of works through the development of projects and research in areas of personal interest under the direction of the professor. The course may be repeated up to two (2) times for a maximum of six (6) credits.

ARTE 3315 - Engraving-Relief Processes

Three credits. Six hours of discussion a week.

Prerequisite: ART 3902

Modality: Face-to-face, Hybrid, Online

Description: Theory and practice of various aspects of black and white relief printing. Preparation of linoleum, cardboard and wood sheets. Preparation of numbered editions.

ARTE 3316 - Color Embossing

Three credits. Six hours of discussion a week.

Prerequisite: ART 3315.

Modality: Face-to-face

Description: Theory and practice of the different manifestations of color relief engraving. Use and development of traditional, modern and contemporary materials and techniques. Preparation of numbered editions printed on press and by hand.

ARTE 3325 - Engraving-Intaglio Processes

Three credits. Four and a half hours of workshop per week. Prerequisite: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Theory and Practice of Drypoint Engraving, Bite

aquatint, open, mezzotint, soft drypoint, and etching among other intaglio. Creation of limited editions in black and white.

ARTE 3326 - Intaglio in Color

(Student Center of France) and a half hour of workshop by continuous monitoring to the

Prerequisite: ART 3325.

Modality: Face-to-face

Description: Theory and practice of the processes of creation of works in color engraving in intaglio. Traditional techniques (drypoint, engraving, mezzotint, scraping) and experimental techniques of contemporary non-toxic engraving (open bite, linear, halftone and viscosity) will be used. The correct execution of the processing of the metal and acrylic matrix or matrices, its proper stamping, as well as its level of creativity will be used. The student will be instructed in the preparation of numbered editions printed on the intaglio press.

ARTE 3330 - Digital Engraving

(Student Center of France) and a half hour of workshop by continuous monitoring to the

Prerequisites: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the study and practice of digital printmaking through the creation and manipulation of multiple images and the techniques of digital printing on paper.

ARTE 3335 - Engraving-Planography Processes

Three credits. Four and a half hours of workshop per week. Prerequisite: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the study and practice of various aspects of planographic engraving: lithography on stone and metal plate. Use of different materials and applications of a variety of lithographic techniques: pencil, crayon, tusche with brush, pen or gouache, scratching, etc. Creation of a limited edition in black and white.

ARTE 3336 - Color Lithograph

Three credits. Four and a half hours of workshop per week. (Lectures and supervision continue to students.)

Prerequisite: ART 3335. Continuation of ARTE 3335.

Modality: Face-to-face

Description: Concentration and application of color to lithography. Using Sheet Metal and Introduction to innovative techniques in order to broaden the spectrum of possibilities of the medium. Emphasis on experimentation to provoke encounter with genuine forms of expression.

ARTE 3345 - Engraving-Stenciling Processes

Three credits. Four and a half hours of workshop per week. Prerequisite: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the screen printing process. Technical analysis and use of screen printing. Technical analysis and use of the procedures: water-based film, crayon and tusche. Adaptive Design Development a these. Creation of a limited edition.

ARTE 3365 - Engraving-Collography Processes I

Three credits. Four hours of workshop per week. Lectures and supervision continue to students.

Prerequisites: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Theory and practice of relief and hollow engraving using collage plates. Training of skills in the handling of materials, objects and textures used in the preparation of choreographic plates. Embossing investigations. Development of prints and inkings in both black and white and color. Creation of limited editions.

ARTE 3366 - Engraving Processes: Colography II

Three credits. Four and a half hours of workshop per week. Prerequisites: ART 3355.

Modality: Face-to-face

Description: Exploration of contemporary problems, concepts, techniques, processes and formats of engraving through works made in the choreographic medium. Intensive experimentation, expansion and refinement of the skills acquired in the ARTE 3355 course.

ARTE 3375 - Monotype

Three credits. Four and a half hours of workshop, lectures, and continuous supervision to the students.

Prerequisite: 3 credits in the process of engraving or authorization from the teacher.

Modality: Face-to-face, Hybrid, Online

Description: Study and intensive practice of the monotype as a hybrid, direct and independent medium within the processes of engraving.

ART 3401 - Drawing I

Three credits. Four and a half hours of workshop per week. Prerequisite: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Basic study of the formal elements of the drawing for the description of the elements of volume, weight and texture inherent to the objects. The analysis of spatial relationships and their organization through composition and design in the creation of pictorial space. Research of various techniques and media used in the faithful representation of objects and spaces, keeping in focus the drawing as a personal and creative act.

ART 3402 - Drawing II

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

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the study of the human figure in its various aspects: in itself, how it moves and how it relates to space. Study of anatomy concepts. The emphasis continues on drawing as a creative and conceptual act. Investigation of its experimental possibilities by expanding the concepts and knowledge of traditional and contemporary materials.

ART 3403 - Intermediate Drawing of the Human Figure

Three credits. Four and a half hours of workshop per week. Prerequisite: ART 3401-3402.

Modality: Face-to-face

Description: Introduction to the creation of images, whose conceptual, expressive and technical bases are related to the reinterpretation of the human figure. Ongoing individual and group supervision is provided.

ART 3416 - Figurative Drawing

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

Modality: Face-to-face

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

ART 3436 - Creative Drawing

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

Modality: Face-to-face, Hybrid, Online

Description: Extension of the possibilities of drawing as an independent means of expression. The emphasis is on creating works that utilize the techniques learned in the core drawing courses, expanding them in the process of developing the student's individuality.

ART 3446 - Color Drawing

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

Modality: Face-to-face

Description: Intermediate drawing course that introduces art students to the creation of images whose conceptual, expressive and technical bases are intensely linked to color. Ongoing individual and group supervision is provided.

ARTE 3497 - Intermediate Drawing Workshop

Three credits. Four and a half hours of workshops and lectures per week. Prerequisites: ART 3401- 3402, three additional credits in drawing.

Modality: Face-to-face

Description: Intermediate level drawing workshop aimed at students of this discipline who have taken introductory classes to processes and techniques. Its purpose is to familiarize the student with the conceptual elements of drawing, emphasizing the interdependent relationships

between themes, contents, forms, and media. The training to understand and use them effectively will be obtained through the execution of projects worked on in class, assigned, and critique, lecture and discussion sessions. It can be repeated up to a maximum of 6 credits.

ART 3515 - Design Process

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

Modality: Face-to-face, Hybrid, Online

Description: Study of the elements of design and their application to each of the basic principles of design. The student will be introduced to digital design.

ART 3615 - Sculpture Processes I

Three credits. Six hours of discussion a week.

Prerequisite: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the basic notions essential for the creation of sculptures: their conceptualization
a design and historical study and its construction using elementary materials and techniques.

ART 3616 - Sculpture Processes II

Three credits. Six hours of discussion a week.

Prerequisite: ART 3615.

Modality: Face-to-face

Description: Intermediate study and development

by traditional procedures of sculpture. Introduction to its contemporary manifestations through the use of mixed media.

ART 3617 - Experimental Sculpture

Three credits. Six hours of workshop per week. Prerequisites: ART 3616.

Modality: Face-to-face

Description: Development of individual projects within the field of sculpture and three-dimensionality exploring within experimental media without losing sight of the traditional as a frame of reference. Exploration within the different techniques of three-dimensional expression, achieving projects of new currents of thought and visual expression.

ART 3626 - Wood Sculpture

Three credits. Six hours of workshop per week. Prerequisites: ART 3616.

Modality: Face-to-face, Hybrid, Online

Description: Intensive study of the ways of creating a wooden sculpture: carving and construction. Production of works in this medium from their conceptual development to their realization. Introduction to manual, mechanical, and electrical materials and equipment, as well as

to the techniques of patinas, fillings, joints and polychromes. Introduction to the conservation of such works.

ART 3636 - Stone Sculpture

Three credits. Six hours of workshop per week. Prerequisites: ART 3616.

Modality: Face-to-face

Description: Intensive study of the creation of a stone sculpture, from its conceptualization to its realization. Development of skills in the knowledge of the stones, their names, qualities and location, as well as skills in the finishing and conservation of the finished works. Introduction to manual, mechanical, and electrical equipment.

ART 3646 - Metal Sculpture

Three credits. Six hours of workshop per week. Prerequisites: ART 3616.

Modality: Face-to-face, Hybrid, Online

Description: Intensive study of the creation of a metal sculpture, from its conceptualization to its realization. Introduction to equipment: plasma and oxy-acetylene cutters, jigsaws, polishers, compressors, and electric arc, oxy-acetylene, and bronze welding techniques, as well as structural issues. Development of skating techniques and conservation of works.

ART 3656 - Cement Sculpture

Three credits. Six hours of workshop per week. Prerequisites: ART 3616.

Modality: Face-to-face

Description: Conceptualization

techniques for the construction of sculptures by means of molds, the different mixtures and their components, and the finishing of the works, installation and maintenance of the works.

ARTE 3666 - Casting Techniques

Three credits. Six hours of workshop per week.

Prerequisites: ART 3120, ART 4255 or ART 3617.

Modality: Face-to-face

Description: Study of the equipment and techniques of the foundry, from the creation of molds, casting, mixing and burning, in different processes, to the finishing techniques and patinations of molten metals.

ART 3718 - Pinhole Photography

Three credits. Six hours of workshop per week.

Prerequisite: ART 3711, ART 3712.

Modality: Face-to-face

Description: Introduction to the techniques, artistic applications and construction of the pinhole camera.

ARTE 3719 - Large Format Photography

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

Modality: Face-to-face

Description: This course allows students to develop the technical and conceptual skills of large-format photography, one of the contemporary modalities, in its analog and digital aspects. most commonly the photography used in

ART 3720 - Photograph of the Human Figure

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

Prerequisites: ARTE 3711-3712.

Modality: Face-to-face

Description: Introduction to studio photography techniques, lighting methods, and modeling. Analysis of the theoretical and practical frameworks in the use and social, political and cultural functions of the human figure in artistic and contemporary photography. Research, critical aesthetic creation of plastic proposals. Ongoing individual and group supervision is provided. and

ART 3745 Photography and video-body, action and space

Three Credits Prerequisites, Co-Requisites and Other Requirements, ART-3711–
Photography Processes I

Modality: Face-to-face, Hybrid, Online

Description: Multidisciplinary workshop that reviews the relationships between the artist's body, the art action and the public or private space through photography and video. The action of art will be put into practice based on a study and analysis of the conceptual relationships between the media and elements. This workshop is an elective aimed at students of the photography

concentration, a free elective for Fine Arts students, and is open as an elective to students of the Río Piedras Campus of the University of Puerto Rico.

ARTE 3730 - Digital Photography

Three credits. Four and a half hours of workshop per week. Prerequisite: ART 3712.

Modality: Face-to-face

Description: Technical, theoretical and practical foundations of the creation and use of digital photography as a plastic medium.

ART 3731 - Photography Processes I

Three credits. Four and a half hours of workshop per week with lectures and ongoing supervision a students.

Prerequisite: ART 3901-3902.

Modality: Face-to-face, Hybrid, Online

Description: Introduction to photography as a medium within the visual arts. The essential technical aspects for the development of a contemporary photographic language, using the digital camera, will be covered. In addition, the concepts and theories of artistic photography will be studied, starting from historical to contemporary currents.

ART 3732 - Photography Processes II

Three credits. Four and a half hours of workshop, lectures, and continuous supervision to the students.

Prerequisite: ART 3731.

Modality: Face-to-face

Description: Continuation of the course processes of photography I. It investigates the different processes in the traditional manipulation of contemporary photography: white photographic processes, black and white, the handling of the large-format camera and the development of visual and conceptual ideas.

ART 3735 - Contemporary Practices of Digital Photography

Three credits. Four and a half hours of workshop with lectures and continuous supervision to students a week.

Prerequisite: ART 3731.

Modality: Presence, Hybrid, Online

Description: Study of contemporary trends in digital photography. Students develop

and expand the digital photographic skills acquired in the course Processes of Photography I. Emphasis will be placed on non-traditional approaches to photography, the convergence of media in current artistic practice, and the implications of new media on the conception of the contemporary photographic image. In this course, the use of critical thinking on the problems of contemporary visual culture is fundamental. Topics will be addressed through lectures, practical exercises, study projects, assigned readings

y project critiques.

ART 3736 - Theory and Practice of Artificial Lighting

Three credits. Four and a half hours of workshop a week with lectures and continuous supervision of students.

Prerequisite: ART 3731, ART 3732.

Modality: Face-to-face, Hybrid, Online

Description: This course will introduce students to the use of lighting in and out of the studio from a historical, practical, and creative perspective. Emphasis is placed on the technical and conceptual skills of light control and "especially" its repercussions on contemporary photographic artistic practice.

ART 3737 - Problems of Photography, Past and Present

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

Modality: Face-to-face, Hybrid, Online

Description: This course seeks to develop the student's understanding of photography as a transformative role in society and culture in the twentieth and twenty-first centuries. The relationship of the photographic medium with theory and knowledge from modernist to postmodernist visions is studied, including the social transformations that have made possible in the last two centuries. The aim is to develop critical thinking for the analysis of photographic images in their different contexts: art, propaganda, advertising, culture, society and politics.

ART 3815 - Painting Processes I

Three credits. Six hours of workshop per week. Prerequisite: ART 3902.

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the basic concepts of creating a painting, from its mechanical-technical to its expressive aspects. Training of technical skills and formal vocabulary

a the creation of meaningful images with color.

ART 3816 - Painting Processes II: Materials and Techniques of Easel Painting

Three Credits. Four and a half hours of workshop per week.

Prerequisite: ART 3815.

Modality: Face-to-face, Hybrid, Online

Description: Intermediate course that specifically explores the technical material possibilities intrinsic to easel painting. Undergraduate Catalogue 2015 416 y the

ART 3818 - Oil Painting

Three credits. Four and a half hours of supervised workshop and lectures. Prerequisite: ART 3816.

Modality: Face-to-face, Hybrid, Online

Description: During this course the student delves into techniques, manufacture and use of materials associated with the oil painting technique. Its historical development and formal and conceptual contributions to painting and contemporary artistic practice will be studied. This course is particularly aimed at students of fine arts. Through exercises, technical demonstrations, illustrated lectures and collective critiques, advanced skills in the handling of techniques and materials are developed.

ART 3846 - Figurative Painting

Three credits. Six hours of workshop per week. Prerequisite: ART 3816.

Modality: Face-to-face, Hybrid, Online

Description: Use of painting as the primary medium for the figurative representation of form-space relationships in the traditional two-dimensional pictorial plane through still life, landscape, and human figure.

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ART 3848 - Advanced Figurative Painting

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

Prerequisite. ART 3846.

Modality: Face-to-face

Description: Intermediate painting course that aims to intensify the knowledge of materials and techniques, but, above all, to develop in the student the ability to make deeper and more individual approaches to visual proposals rooted in figuration.

ART 3850 - Encaustic Painting

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

Modality: Face-to-face

Description: Study of the formal, historical, technical and conceptual elements of the thermo-meltable or encaustic pictorial procedure. It seeks to link the student with the pictorial tradition, and the relevance of this in contemporary artistic practice. This course is aimed at students of the specialization in painting. Its purpose is for the student to develop their own language using the visual and conceptual elements provided by this technique. The course will be developed through illustrated lectures, collective critiques and use of the workshop.

ARTE 3897 - Intermediate Painting Workshop

Three credits.

Prerequisites: ART 3816.

Modality: Face-to-face

Description: Intermediate level course to develop in the painting student the understanding and elective use of the relationships between themes, contents, forms and medium. It can be repeated up to a maximum of six credits.

ART 3911 - Fundamentals of the Visual Arts I: Two-dimensionality

Three credits. Six hours of lecture, discussion, and workshops in continuous supervision of students per week.

Modality: Face-to-face, Hybrid, Online

Description: Introductory course to the reasoning, methodology and practice of the creation of two-dimensional manifestations of contemporary visual arts. Lectures, discussion and workshops on the historical, formal, technical and conceptual elements of two-dimensional media in visual arts. This course is open to all undergraduates and is a requirement for students in the fine arts department of fine arts concentration. Its purpose is for the student to acquire a panoramic vision of the fundamentals of two-dimensional media in order to enrich their visual language and to be able to make an informed decision about the area of specialization to be studied.

ART 3912 - Fundamentals of the Visual Arts II: Three-Dimensionality

Three credits. Six hours of supervised discussion and workshops per week.

Modality: Face-to-face, Hybrid, Online

Description: Introductory course to the reasoning, methodology and practice of the creation of three-dimensional manifestations of contemporary visual arts. Lecture, discussion and workshop on the historical, formal, technical and conceptual elements of three-dimensional media in visual arts. This course is open to all undergraduates and is a requirement for students in the fine arts program of the fine arts department. Its purpose is for the student to acquire a panoramic vision of the fundamentals of the elements and three-dimensional vocabulary in order to enrich their plastic language and to be able to make an informed decision about the area of specialization to be studied.

ART 3913 - Fundamentals of the Visual Arts III: The Fourth Dimension

Three credits. Six hours of lectures, discussions, and workshops in continuous supervision of students.

Modality: Face-to-face, Hybrid, Online

Description: Introduction to the reasoning, methodology and practice of the creation of temporal (art of time d/4) and digital manifestations of contemporary visual arts. Conference, discussion and workshop on the historical, formal, technical and conceptual elements of the temporal (performance, ephemeral art, video and sound) and digital (electronic image) media in the visual arts. This course is open to all undergraduate students and is a requirement for new students entering the fine arts

concentration in the fine arts department. Its purpose is for the student to acquire a panoramic vision of the fundamentals of 4D and digital media in order to enrich their visual language and to be able to make an informed decision about the area of specialization to be studied.

ART 3917 - Serial Images

Three credits. Six hours of workshop per week.

Prerequisites: Six credits in painting or sculpture or printmaking or drawing or photography or art and technology.

Modality: Face-to-face, Hybrid, Online

Description: Exploration of the interaction of two or more images juxtaposed in an artistic visual discourse. This course was previously 3717.

ART 3905 Performance Art

Three Prerequisites, co-requisites, and other requirements, 6 to 9 concentration credits

Modality: Face-to-face

Description: Workshop aimed at students of concentration in Plastic Arts as an introduction to the practice of contemporary trends related to performance art. Its purpose is to familiarize the student with the conceptual and historical elements of the performance medium, emphasizing the pluralism of ideas about the body as a creative concept.

Training to understand and use them effectively will be obtained through the creation of ephemeral proposals, the development of documentation techniques, conferences, discussions and critique sessions. Emphasis will be placed on creating personal narratives that have been influenced by various contemporary trends including video art, concept art, installations and public art.

ART 3916 Perspective and Optical Illusion

Three credits 6 credits in 2 Prerequisite

Fundamentals courses: ART 3911, 3912, 3933

Modality: Face-to-face, Hybrid, Online

Description: Research and practice of the principles of perspective and optical illusion for the representation of space in its conceptual breadth, as well as through various contemporary artistic approaches. The course offers the student practical tools to solve the problems of constructing three-dimensional depth on the two-dimensional pictorial plane.

ART 3920 Art and Gender: Female Discourse in the Visual Arts

Three credits. Four and a half hours of workshop per week Prerequisites: None

Modality: Face-to-face

Description: Comparative study of the relationships that exist between gender, race and representation within the historical-cultural context. It will explore how women represent themselves and how they have been represented through the discourse of art.

ARTE 3930 - Cultural Studies Research & Tour

Three credits. 15 sessions of 1.5 hrs. and one for lecture and discussion during the semester. Five days of 4.5 hrs. Contact during the trip at the end of the semester. It can be repeated up to a maximum of 6 credits.

Modality: Face-to-face

Description: Research at the level of study and later travel to a relevant and important destination in the field of contemporary art. This course is designed for the art student. During the preparation for the trip, the historical and cultural aspects of the destination city will be analysed through lectures and reports, from the point of view of the visual arts. The semester will culminate with a visit to the destination city, during which museums, galleries, works of public art and artists' workshops will be visited. The course is developed through reports, lectures, conversations, and the individual creation of a visual record. It can be repeated when the destination of the trip is different.

ART 3936 - Aqueous Media

Three credits. Four and a half hours of workshop per week. Prerequisites: ART 3816, ART 3446.

Modality: Face-to-face, Hybrid, Online

Description: Intermediate workshop course that explores the conceptual, expressive and technical potential of various aqueous media on various traditional and contemporary paper supports.

ART 3937 - Artistic Anatomy

Three credits. Six hours of workshop per week. Prerequisites: ART 3402.

Modality: Face-to-face, Hybrid, Online

Description: Course based on the study of the structures of the human body, its components and the different forms of representation that have been used by various artists throughout history. It highlights the importance of the human body as a means of expression and thematic composition of an artistic work. It focuses on the development of anatomical knowledge in history and vocabulary that allow the design and construction of the human figure in a precise way. It reinforces the ability to observe and represent the characteristics, adaptations and peculiarities of the human body. It uses knowledge to creatively put into practice the human body adapted to the behavior and variations of people in actuality or fantasy.

ARTE 3991 Project Design and Self-Management

Three credits, three lecture hours per week Requirements: 6 credits in 2 of the following courses: ART 3911, 3912, 3913

Modality: Face-to-face

Description: Analysis and study of successful strategies for the economic self-management of artistic projects. A local and international panorama of individual and collective initiatives will be presented, where visual arts and multimedia are integrated as instruments of visual communication relevant to diverse audiences. Emphasis will be placed on the student's personal vision, conceptual frameworks developed in class, innovative projects financed through *non-profits*, private companies and crowdfunding, and the design and writing of proposals for presentation to donors and sponsors. The course may be repeated up to three (3) times for a maximum of nine (9) credits, once each level.

ARTE 4097 - Advanced Workshop in Digital Art

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

Prerequisite: ART 3054 and teacher's authorization.

Modality: Face-to-face

Description: Advanced level digital art course for students with the ability and need to set individual directions of creative work. It provides for the creation of works through the elaboration of projects and research in areas of personal interest under the direction of the professor. The course can be repeated up to three times for a maximum of nine credits.

ART 4366– Photosensitive Methods in Engraving

Three credits. Six hours of lab or workshop per week.

Prerequisite: six credits in printmaking and/or photography.

Modality: Face-to-face

Exploration of various photosensitive base methods as alternative media in printmaking. The course may vary according to the technical and human resources available. It may include, but is not limited to, photoetching on zinc plates, photopolymer plates, xerographic transfer, and photosensitive emulsions. Integration of these into other traditional forms of engraving. Lecture and workshop in both the engraving and photography laboratories.

ART 4376 - New Approaches to Printmaking

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

Prerequisites: Six credits in printmaking.

Modality: Face-to-face

Practical investigations of various contemporary possibilities and new approaches to traditional techniques in printmaking. The course may vary according to technical resources and with the new technical possibilities and formal approaches that emerge. It may include, but

is not limited to, mixed, large-format, or non-traditional media. Production of single editions or copies, both independently and in collective productions.

ARTE 4397 - Advanced Engraving Workshop I, II and III

Three credits. Four and a half hours of workshop, lecture, and supervision continues a week. Prerequisites: ART 3315, ART 3316 or 3325, ART 4326 or 3345, ART 3356 or 3335, and ART 4336 plus six elective credits in intermediate and/or advanced level printmaking.

Modality: Face-to-face

Description: Advanced level printmaking course for students with the ability and need to set individual directions of creative work. It provides for the creation of works through the elaboration of projects and research in areas of personal interest under the direction of the professor. The course can be repeated up to three times for a maximum of nine credits.

ARTE 4416 - Large Format Drawing

Three credits. Six hours of workshop per week.

Prerequisite: ART 3402.

Modality: Face-to-face

Description: In-depth research of new media in drawing processes and combinations in which aesthetic and stylistic alternatives are tied to the non-traditional large format.

ARTE 4426 - Experimental Workshop on Paper

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

Prerequisite: ART 3125.

Modality: Face-to-face

Description: Study and practice of new trends in drawing as an independent art form. Emphasis on concept presentation, critical analysis, and elaboration processes. It will investigate, among other possibilities, the different contemporary approaches to figuration and non-figuration, collage, handmade paper, etc.

ARTE 4497 - Advanced Drawing Workshop I, II and III

Three credits. Four and a half hours of workshop, lectures, and continuous supervision per week.

Prerequisites: ARTE 3402 plus 3 crs. In drawing and authorization of Prof.

Modality: Face-to-face

Description: Advanced level drawing course for students with the ability and need to set individual directions of creative work. It provides for the creation of works through the elaboration of projects and research in areas of personal interest under the direction of the professor. The course can be repeated up to three times for a maximum of nine credits.

ART 4616 - Monumental Sculpture

Three credits. Six hours of workshop per week. Prerequisites: ART 3616.

Modality: Face-to-face, Hybrid, Online

Description: Development of projects at scale that can be transferred to monumental scales within a thematic and environmental framework with a harmonious composition. The different techniques and methods of planning, presenting and elaborating projects of this nature are explored.

ARTE 4697 - Advanced Sculpture Workshop I, II and III

Three credits. Four and a half hours of workshop, lectures, and continuous supervision per week. Prerequisites: ART 3616, plus three elective credits in sculpture and faculty authorization.

Modality: Face-to-face

Description: Advanced sculpture course for students with the ability and need to set individual directions of creative work. It provides for the creation of projects and research in areas of personal interest under the direction of the professor. The course can be repeated up to three times for a maximum of nine credits.

ARTE 4797 - Advanced Photography Workshop I, II, III

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

Modality: Face-to-face

Description: Advanced level photography course for students with the ability and need to set individual directions of creative work. It provides for the creation of works through the elaboration of projects and research in areas of personal interest under the direction of the professor. The course can be repeated up to three times for a maximum of nine credits. As of August 2002, this course replaces ARTE 3715 and 3725.

ARTE 4816 - Large Format Painting

Three credits. Four and a half hours of workshop per week. Prerequisite: Nine credits in painting.

Modality: Face-to-face

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

ART 4826 - Experimental Painting

Three credits. Six hours of workshop per week. Prerequisites: Nine credits in painting.

Modality: Face-to-face, Hybrid, Online

Description: The emphasis lies in the manipulation of the non-traditional pictorial planes introduced to painting in the twentieth century and in the extension of the traditional limits of both figurative and non-objective painting through their integration with others such as printmaking, photography and sculpture. Undergraduate Catalogue 2015 422

ARTE 4897 - Advanced Painting Workshop I, II and III

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

Prerequisites: ART 3816, three elective credits in painting, and faculty authorization.

Modality: Face-to-face

Description: Advanced

individual proposals for painting. Students with individual capacity groups take this division is provided. The student may take the course up to a maximum of 9 credits (3 semesters).

ARTE 4905 - Ephemeral Art Workshop

Three credits. Six hours of workshop per week. Prerequisite: interview or audition.

Modality: Face-to-face, Hybrid, Online

Description: Exploration of various contemporary artistic manifestations in which the originating idea and the process through which they are presented take precedence over the final tangible product. Emphasis on the active participation of the viewer as well as the deliberate impermanence of the artwork. Workshop in the classroom and outdoors at the university and in the community.

ARTE 4915 - Installations

Three credits. Four and a half hours of workshop. Prerequisites: ART 3902.

Modality: Face-to-face

Description: Research and study of contemporary aesthetic theories and practices in the conception and construction of installation as a plastic form. Planning and construction of facilities in public and private spaces. Presentation of a theoretical and practical analysis of the social, political and cultural uses and functions of facilities in public and private space.

ART 4916 - Abstract Art

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

Prerequisites: Nine credits in one of the areas of emphasis of the fine arts concentration y ARTE 3237 or ARTE 3192, or the teacher's authorization.

Modality: Face-to-face, Hybrid, Online

Description: Multidisciplinary workshop course that explores the conceptual and expressive possibilities of abstraction in the visual arts. Audiovisual exposure to similar manifestations in cinema, music and dance.

ARTE 4926 - Experimental Paper Workshop I, II, III

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

Modality: Face-to-face, Hybrid, Online

Description: Study and practice of new trends in the creation of works made on paper. Emphasis on concept presentation, critical analysis, and elaboration processes. Exploration of the different contemporary approaches to figuration and non-figuration, collage, handmade paper, recycled paper, among others. Provides for the creation of special individualized research projects in areas of personal interest under the direction of the professor. The course can be repeated up to 3 times for a maximum of 9 credits. Undergraduate Catalogue 2015 423

ART 4927 - The Art Book I, II, III

Three credits. Six hours of workshop per week.

Prerequisite: ART 3401 or ART 3902 or ART 3515.

Modality: Face-to-face, Hybrid, Online

Description: Advanced course that proposes to study and practice non-traditional and experimental tendencies in the creation of art books as an independent art form. Emphasis on different formats, materials and tools that can be used in the elaboration of an art book. Exploration of various conceptual, thematic and formal possibilities both in their external presentation and in their content or interior. The course will provide a panoramic study of the history and development of this artistic medium. Provides for the creation of special projects

and individualized research in areas of personal interest under the direction of the professor. The course can be repeated up to three times for a maximum of 9 credits.

ARTE 4971 Creative Research Workshop I

Three credits. Six hours of workshop per week.

Prerequisites: Nine credits in area of emphasis ARTE3911, ARTE3912, ARTE3913

Modality: Face-to-face, Hybrid, Online

Description: Capstone course for all areas of emphasis of the fine arts concentration. Written formulation of a proposal for creative research, creation and critical analysis of works that investigate it and partial manifesto of conclusions.

ARTE 4972 Creative Research Workshop II

Three credits. Six hours of workshop per week. Prerequisite: ARTE4971

Modality: Face-to-face, Hybrid, Online

Description: Second part of the final course for all areas of emphasis of the visual arts concentration. Review of the research proposal, final development of the works that materialize the proposal, critique and defense of the same and final manifesto of conclusions.

ARTE 4997 - Independent Studio - Plastic Arts

Credits vary from 2 to 4 depending on the nature of the job. (2 crs. / 2 hours; 3 crs. / 3 hours; 4 hrs. / 4 hours) independent study.

Prerequisite: approval by the department chair and acceptance of the student by the professor.

Modality: Face-to-face

Description: Independent study conducted under the supervision of a teacher specialized in the student's area of interest. The course can be repeated up to a maximum of six credits.

ART 4998 - Themes of Contemporary Artistic Practice

One to three credits. One to three hours of lecture and discussion a week.

Prerequisites: ART 3911, 3912, 3913.

Modality: Face-to-face, Hybrid, Online

Description: Course of a theoretical-thematic nature that deals with topics related to contemporary artistic practice that may vary by semester. The course is of variable credits and the student can enroll up to three times if offered at one credit at a time, under different topics, or once if offered for three credits. In order to meet the requirement of the core component of the fine arts program, the student must complete 3 credits. This course is designed to invite local and international speakers, whether they are artists, theorists, philosophers or scholars of contemporary art from a multidisciplinary perspective.

CHIN 3001 Intensive Chinese I (5 hours– 3 crs.)

Introductory course in modern Chinese. The four functional skills of the language will be developed: listening, speaking, reading and writing. Some aspects of Chinese culture will be studied. Face-to-face, online and hybrid course.

Co-requisite: CHIN 3011 Intensive Chinese Lab I (2.5 hours– 0 crs.)

CHIN 3002 Intensive Chinese II (5 hours– 3 crs.)

(Prerequisite: CHIN 3001) In this course, you continue to study everyday Chinese conversations, while improving the pronunciation of Chinese syllables, especially Chinese tones. Chinese characters continue to be studied and practiced by hand and on the computer. The functions of basic sentences in Mandarin Chinese continue to be studied. In addition, through Chinese cultural activities, students' knowledge of China is expanded and their interest in the Mandarin Chinese language and Chinese cultures increases. Face-to-face, online and hybrid course. Co-requisite: CHIN 3012 Intensive Chinese Lab II (2.5 hours– 0 crs.)

CHIN 3103 Intermediate Chinese I (3 crs.)

(Prerequisite: CHIN 3002) Course designed to reinforce oral communication skills and comprehension of Chinese characters in order to be able to write, read and understand the written language at intermediate level I. Vocabulary and grammar knowledge will be expanded, and new and more complex Chinese characters will be studied. Face-to-face, online and hybrid course.

Co-requisite: CHIN 3103L Intermediate Chinese Lab I (2.5 hours– 0 crs.)

CHIN 4016 Intermediate Level Speaking I (3 crs.)

(Prerequisite: CHIN 3002; Co-requisite: CHIN 3103) Develops oral communicative competence in Chinese at an intermediate level in everyday life situations. Emphasis will be placed on good pronunciation and fluency of Chinese speaking. Through class discussion, the student will develop new vocabulary and improve their grammatical correctness in oral expression. This is an intensive oral practice course. Face-to-face, online and hybrid course.

CHIN 3104 Intermediate Chinese II (3 crs.)

(Prerequisite: CHIN 3103) Continuation of Intermediate Course I, designed to reinforce oral communication skills and comprehension of Chinese characters in order to be able to write, read and understand the written language at Intermediate Level II. It includes writing short essays in characters by hand or on a computer. Face-to-face, online and hybrid course. Co-requisite: CHIN 3104L Intermediate Chinese Lab I (2.5 hours– 0 crs.)

CHIN 4017 Intermediate Chinese Reading (3 crs.)

(Prerequisites: CHIN 3103 and CHIN 4016; Co-requisite: CHIN 3104) The course develops the competence of reading topics of everyday life in Mandarin Chinese at an intermediate level. Emphasis will be placed on the ability and speed of understanding Chinese characters and understanding the proposed readings. By practicing reading in and out of class, the student will develop new vocabulary. This is an intensive practice course. Face-to-face, online and hybrid course.

***CHIN 4026 Intermediate Level Oral Expression II (3 crs.)**

(Prerequisite: CHIN 4016) Continuation course of the intermediate level I oral expression course. It is aimed at students who wish to continue expanding oral communicative competence in everyday situations. Through class discussion, the student will learn new vocabulary, become more fluent, and improve their grammar knowledge. This is an intensive oral practice course.

CHIN 4136 Chinese Language and Culture through Videos (3 crs.)

(Prerequisite: CHIN 4016) This course explores contemporary Chinese culture through authentic documents (videos), available on the internet, presenting different topics of daily life in China. Students will develop their ability to understand and speak Chinese at a natural speed, expand their vocabulary, and learn new grammatical structures at an intermediate level. This course will be offered in face-to-face, hybrid and online modalities.

DANZ 3001 - Modern Dance: Basic Technique I

Three credits. One hour of discussion and two hours of supervised practice per week. Prerequisite: Audition.

The practical study of the basic techniques of modern dance.

DANZ 3002 - Modern Dance: Basic Technique II

Three credits. Four and a half hours of supervised practice per week. Prerequisite: DANZ 3001.

Continuation of the practical study of the basic techniques of modern dance.

DANZ 3003 - Ballet for Beginners I

Three credits. One hour thirty of discussion and three hours of supervised practice per week. Introduction to the culture and techniques of the art of classical ballet for beginners.

DANZ 3004 - Ballet for Beginners II

Three credits. One and thirty hours of discussion and three hours of supervised practice per week.

Prerequisite: DANZ 3003.

Introduction to the culture and techniques of the art of classical ballet for beginners.

DANZ 3007 - Theatrical Folk Dances

Three credits. One hour of discussion and two hours of supervised practice per week. He studied folk dances and their stylization for stage presentation.

DANZ 3035 - Body Movement

Three credits. One hour of discussion and two hours of supervised practice per week.

The study of the possibilities of coordination and rhythm in the movement of the human body.

DANZ 3036 - Body Expression

Three credits. One hour of discussion and two hours of supervised practice per week. Prerequisite: DANZ 3035.

The study and practice of the art of expressing emotions, moods, physical sensations, situations, and ideas through body movements.

DANZ 4007 - Evolution and Development of Dance

Three credits. Three hours of discussion a week. The study of the history and theory of dance.

DANZ 4035 - Basic Choreography I

Three credits. An hour and a half of discussion and three hours of supervised practice per week. Prerequisite: DANZ 3001, 3035, 3036 4241 and/or audition.

The theoretical and practical study of the creation of movement patterns in space and time.

DANZ 4037 - Experimental Dance Workshop

Three credits. One hour of lecture and two hours of laboratory per week. It can be repeated up to a maximum of six credits. Prerequisites: TEAT 3301 and TEAT 3302.

Workshop work with experimental forms of dance and movement.

DANZ 4045 - The Art of Dance in Education

Three credits. Three hours of lecture a 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 in the life of the community.

DANZ 4055 - The Art of Dance in Education

Three credits. Three hours of discussion a week. Prerequisite: Authorization from the director. The study of dance in relation to the physical, intellectual, social and cultural development of the child: its importance in the school curriculum and in the life of the community.

DANZ 4241 - Ballet I: Basic Technique

Three credits. Two and a half hours of discussion a week. Prerequisite: Audition. The practical study of the basic techniques of ballet.

DANZ 4242 - Ballet II: Basic Technique

Three credits. Five hours of supervised practice per week. Prerequisite: DANZ 4241. Continuation of the practical study of the basic techniques of ballet.

DANZ 4243 - Ballet III: Intermediate Technique

Three credits. Seven and a half hours of supervised practice per week. Prerequisite: DANZ 4241-4242. The practical study of intermediate ballet techniques.

DANZ 4244 - Ballet IV: Intermediate Technique

Three credits. Seven and a half hours of supervised practice per week. Prerequisite: DANZ 4243.

Continuation of the practical study of the intermediate techniques of ballet.

DANZ 4245 - Ballet V: Advanced Technique

Three credits. Seven and a half hours of supervised practice per week. Prerequisite: DANZ 4244.

The practical study of advanced ballet techniques.

DANZ 4246 - Ballet VI: Advanced Technique

Three credits. Seven and a half hours of supervised practice per week. Prerequisite: DANZ 4245.

Continuation of the study of advanced ballet techniques.

DANZ 4251 - Ballet Pointe Technique I

Two credits. Three hours of supervised practice per week. Prerequisite: DANZ 4241. Training in the technique of dancing on the balls of the feet.

DANZ 4252 - Ballet Pointe Technique II

Two credits. Three hours of supervised practice per week. Prerequisite: DANZ 4251. Continuation of training in ballet techniques for dancing on the balls of the feet.

ESIN 3003 Fundamentals of Interdisciplinary Studies (3crs.)

The course aims to give an overview of interdisciplinary studies, both from a theoretical-general and methodological point of view. It will be based on the premise that current interdisciplinary studies share some conceptual guidelines, which it is necessary to know, without this implying a delimitation of the constitutive breadth of the field of study. Finally, students will be exposed to the methodologies, style

norms and ethical principles of research in interdisciplinary studies, both for those who profess analytical-academic and creative-managerial interests. In our context, management is understood to be linked to professional or cultural management. [In-person, hybrid, or online.]

ESIN 3403 Sense and Ethics of Citizens (3crs.)

The course promotes the development of ethics and a sense of citizenship, understood as the commitment to the common welfare, the tools to critically analyze social inequalities and injustices and to actively participate in the collective future. It encompasses the study of the social production of inequalities; transdisciplinary approaches to the relationship between the arts, the formation of consciousness and subjectivity; the discourse of rights; community experiences in Puerto Rico; and the principles of human development and good living, among other approaches to the construction of a critical and participatory citizenship. [In-person, hybrid, or online.]

ESIN 4395 Interdisciplinary Internship (3 crs.)

Supervised internship experience at a public or private or community institution for students in the Faculty of Humanities. [In-person, hybrid, or online.] [That's a total of 120 hours of performance per student.]

ESIN 4090 Seminar on the Integration of Interdisciplinary Studies (3crs.)

Seminar for Bachelor of Arts students, with a concentration in Interdisciplinary Studies. Its purpose is to integrate the knowledge, skills and aptitudes learned in their educational training, to execute a final project with a sense of social responsibility. The draft conclusion will consist of the formation of working groups as diverse as possible, preferably with at least one member from each area of emphasis, so that they can carry out in installments, first, a social action project of a collective nature and, second, a research project of an individual nature, such as a monograph on the subject in question. Social action can make use of cultural analysis, creation and management, as well as action research. [In-person, hybrid, or online.]

ESIN 3401 Fundamentals of Law (3crs.) (Pre-Legal Studies)

The course seeks to expose the student to the basic elements of the study of law as a concept, system, institutions and social phenomenon. The student must be able to understand the different notions according to which the phenomenon of the legal is explained, from the normative aspects to the way in which the legal system is organized through institutions such as the courts, the judicial process and the legal profession itself. In order to contextualise and dimension some of the discussions, particular controversies relating to family law, criminal law and fundamental freedoms will be examined. [In-person, hybrid, or online.]

ESIN/COMA 4187 Film Theory and Criticism (3crs.) (Film and Audiovisual Studies)

Study and analysis of the different theoretical frameworks of film theory. Emphasis will be placed on the processes of model building, the language of cinema and the most important cinematographic theories in relation to the culture and genres of the medium. In addition, other topics of cinematography theorists, such as authorship, perception, signification and the unconscious, will be studied in detail. [In-person, hybrid, or online.]

ESIN 4003 General Creative Writing Practice (3crs.) (Creative Writing)

The course is a general practice on the conceptual-creative aspect of Creative Writing. During this course, the student will focus on the development of a creative writing project, either collective or individual, according to criteria to be determined by his/her teacher. For those who are interested in literary, journalistic or communicational publishing, this course will help them to develop better future editing skills with other people's projects through their own editing of personal creativity [according to trends known as "creation as self-editing" and "editing as creation"] . [In-person, hybrid, or online.]

ESIN 4401 Humanities Research Seminar (3crs.) (Individualized Studies)

The seminar provides an introduction to the design and development of research in the humanities. It addresses 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 references, the methodological design, the research with primary sources, the systematization of data, the analysis and the oral and written presentation of the findings. The student will be exposed to some of the main research methodologies in the humanities, starting from the perspectives of disciplines such as history, literary criticism, philosophy, linguistics and the arts, emphasizing interdisciplinary intersections and transdisciplinarity as proposed in the tradition of cultural studies. [In-person, hybrid, or online.]

ESIN 3175 Principles of Archival Studies (3 crs.)

Study of the theoretical and methodological foundations of archival science. [Face-to-face.]

ESIN 3176 Research Methods in the Humanities: Monographs and Dissertations (3 crs.)

This course offers students the opportunity to acquire advanced knowledge about the process of searching for and managing information and research in the humanities. A monograph or dissertation proposal will be submitted as a final product.

ESIN 3236 Theory and Composition of Poetry (3 crs.)

Interdisciplinary course aimed at students interested in their training as creative writers and critical readers of poetry. It emphasizes the development of communication, reasoning, and creative research skills in the genre of poetry compared to other genres in the arts. [Face-to-face.]

ESIN 3402 Topics in Cultural Management (3crs.)

Seminar with a variable theme aimed at the theoretical and practical study of cultural management. It may be repeated up to a maximum of 9 credits with different topics of study each time the student enrolls. [In-person, hybrid.]

ESIN 3404 Contemporary Art Thought and Cultural Production (3crs.)

The seminar provides an introduction to the design and development of research in the humanities. It addresses 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 references, the methodological design, the research with primary sources, the systematization of data, the analysis and the oral and written presentation of the findings. The student will be exposed to some of the main research methodologies in the humanities, starting from the perspectives of disciplines such as history, literary criticism, philosophy, linguistics and the arts, emphasizing interdisciplinary intersections and transdisciplinarity as proposed in the tradition of cultural studies. [In-person, hybrid, or online.]

ESIN 3501 Topics in Sciences and Humanities (1-3 crs)

One to three credits. One to three hours of seminar per week. Seminar on variable topics and credits aimed at exploring courses between sciences and humanities. It may be repeated up to a maximum of 9 credits with different topics of study each time the student enrolls. This seminar will be offered in both face-to-face and hybrid modalities. [In-person, hybrid.]

ESIN 4001 Seminar in Puerto Rican Studies (3 crs.)

Study the development of Puerto Rican culture. Special attention will be given to the historical, artistic, philosophical, and literary aspects of Puerto Rican thought from the nineteenth century to the present day. The course includes a research component. [Face-to-face.]

ESIN 4005 Cultural Policies in the Caribbean (3 crs.)

The course addresses the study of thought around culture, identities, art, and politics in the Caribbean. It also provides an introduction to contemporary debates around the articulation of cultural policies in the region. [Face-to-face.]

ESIN/COPU 4008 Theories of Signification and Culture (3 crs.)

Study of the processes of symbolic and cultural production articulated through the plurality of communicative networks and exchanges and generated by the different actors and mediators of the social fabric. [In-person, hybrid, or online.]

ESIN 4009 Research Methods and Resources in Caribbean and Latin American Studies (3crs.)

Development of research skills in Caribbean and Latin American studies particularly the search, management, evaluation and use of print, bibliographic and online resources.

ESIN 4011 Latin American Studies Seminar (3crs.)

The course addresses the development of Latin American culture from its historical, literary, and political aspects, among others. It includes a research component. [Face-to-face.]

ESIN 4012 Legal Internship

Supervised experience at the UPR Legal Clinic.

ESIN 4013 Legal Internship II

Supervised experience at the UPR Legal Clinic (continued).

ESIN 4015 Basic Technique Ballet (3crs.)

Prerequisite: Audition. Practical study of the basic techniques of ballet. [Face-to-face.]

ESIN 4016 Ballet Intermediate Technique (3crs.)

Prerequisite: ESIN 4015. Practical study of intermediate ballet techniques. [Face-to-face.]

ESIN 4017 Advanced Technique Ballet (3crs.)

Prerequisite: ESIN 4016. Practical study of advanced ballet techniques. [Face-to-face]

ESIN /ESPA 4020 Practical Short Narrative Workshop (4crs.)

Four credits. Workshop with a variable theme whose purpose is to strengthen the practical and theoretical knowledge of the genre of short fiction in some of its modalities. It is aimed at students of Spanish, writing and creative writing who are interested in literary creation from a comprehensive

perspective that unifies theory with practice. Up to twelve credits can be repeated with different topics of study. [In-person, hybrid, or online.]

ESIN 4029 Interdisciplinary Course on Artistic Evaluation (3crs.)

A forum for the analysis and evaluation of the most important elements in the appreciation of the visual arts, music, dance and dramatic art. [Face-to-face.]

ESIN/COPU 4038 History of Cinema (3 crs.)

This course proposes the cinematographic medium as an object of study, in a reflection that uses the historical line as its main axis. The proposal includes moving through the development of cinema by observing salient points in the constitution of film genres, the emergence of significant authors, and the appearance of events that shaped the industrial and artistic apparatus. The course also seeks to put cinema in a particular perspective where its development as a form of artistic expression and business articulation is contextualized. [Face-to-face.]

ESIN 4045 Art, Culture and Law (3crs.)

Study of the relationship between art, culture and law from an interdisciplinary perspective. Discussion of the interaction of the arts with law; legal protection of artists' rights; the right to culture and Puerto Rican cultural legislation. [In-person, hybrid, or online.]

ESIN 4056 Humanities in Action (3 crs.)

Seminar with variable content aimed at reflecting on the humanistic disciplines and their meaning in today's world. Each time it is offered, it will deal with different topics. [In-person, hybrid, or online.] [Can be taken up to 12 crs.]

ESIN 4065 Seminar on Pre-Judicial Studies (3 crs.)

Interdisciplinary study of aspects of law related to the humanities. [Face-to-face.]

ESIN 4066 Research Seminar: Contemporary Problems of Law (3 crs.)

Critical analysis of current controversies related to law. Emphasis on the development of legal research skills. The student can repeat the course twice to study different topics that are the subject of public discussion. [Face-to-face.]

ESIN 4075 Seminar: Basic Concepts of Translation (3 crs.)

Analysis of the basic concepts, based on the definitions of translation and based on the study of the main types of translation and their implications. [Face-to-face.]

ESIN 4076 Seminar: Basic Concepts of Translation II (3 crs.)

Prerequisite: ESIN 4075. Introduction to the discipline of translation through practice in particular situations provided in research scenarios. Application of the basic principles of translation with representative exercises of translations from English to Spanish. The course helps to develop the ability to analyze texts in the original language and to strengthen writing skills in the target language (the language into which it is translated). [Face-to-face.]

ESIN 4077 / COPU 4077 Introduction to Scientific Research in Communication (3 crs.)

(Prerequisite: COPU 4005).

Introduction to the field of scientific research applied to the media. The procedures and management of the research are studied, as well as the resources and bibliographic compilation. It also includes research methods such as: survey, field study, content analysis, discursive analysis, focus groups, in-depth

interviews, and data management for statistical analysis. [In-person, hybrid, or online.]

ESIN 4080 Seminar on Editorial Theory and Practice (3 crs.)

Interdisciplinary course aimed at students interested in their training as critical editors. It emphasizes the development of writing, research, and editing skills for the preparation of a textbook structure under the supervision of a professor specialized in the area. [Face-to-face.]

ESIN/CNEI 4085 Scientific-Humanistic Integration in Science: Health and the Environment (3 crs.)

Science is studied from an interdisciplinary perspective, focusing on the core issues of health and the environment. It studies how to incorporate or add the humanistic and social dimensions to the scientific approach to health and environmental issues. This will be achieved through weekly readings, lecture videos, documentaries, critical reflections, and class discussions. The course is aimed at students from third year onwards. The student will appreciate and value how an interdisciplinary approach that incorporates the humanistic and social dimensions of science leads to a more comprehensive understanding of reality and more complete solutions than those provided by a purely scientific approach to health and the environment. The student will appreciate that science is a cultural and social activity that must include human values. [In-person, hybrid, or online.]

ESIN 4095 Genre, Narrative and Film (3 crs.)

Analysis of the literary and filmic procedures used in literary and narrative narrative to construct [Present.]
cinema subjects y Male historically located.

ESIN 4101 Topics in Film and Audiovisual Studies (3 crs.)

The course explores diverse topics that allow primarily theoretical and/or historical approaches to cinema or audiovisual. The course can be taken up to three times. The course is offered in face-to-face, hybrid or online mode. [In-person, hybrid, or online.]

ESIN 4105 Introduction to Women's Studies (3 crs.)

Interdisciplinary analysis of the ways in which sex, sexuality and gender have influenced and influence the role of women within society. Women as subject and object in history, the arts, literature and philosophy will be the starting point of this analysis. [Face-to-face.]

ESIN 4116 Seminar: Current Currents of Environmental Thought (3 crs.)

Introduction to several of the current currents that contribute to eco-environmental problems. Study of the paradigm or conceptual framework that sustains today's environmental thinking, delving into a specific topic. It starts from the humanistic perspective with a transdisciplinary approach. Application of the international debate to the reality of Puerto Rico. The student will be able to repeat the course twice with different topics of study. [Face-to-face.]

ESIN 4125 Independent Study (3 crs.)

Prerequisites: 80 credits passed and authorization from the director of the PREI. Course of directed research in interdisciplinary studies on specific topics or problems of individual interest. The course can be taken a maximum of two times (for a total of 6 credits). [Face-to-face.]

ESIN/ESPA 4992 Special Topics in Creative Writing (1-3 crs)

Variable subject course in Creative Writing. It attends to the development of writing skills for creative writing. The texts analysed and the theoretical foundations will vary according to the genre selected. The course can be repeated up to a maximum of six credits with different study topics. [Face-to-face.]

ESIN 4350 Topics in Pre-Legal Studies (1-3 crs)

This course proposes an interdisciplinary approach to the study of law and the humanities. It can be repeated up to a maximum of 9 credits. [In-person, hybrid.]

ESPA 3008 - Travels and Visions: Spanish Travel Literature

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. This course explores the tradition of Spanish travel literature from the Middle Ages to the present and includes the study of travel literature written by Spaniards, as well as accounts documenting the visit of foreigners to Spain. The chronology chosen presents the hybrid nature of the travel narrative and its proximity to other genres and disciplines, including geography, history, art, autobiography, letter, and fiction. The forms of travel literature and the main themes of the genre will be analyzed. The course is an option to fulfill the literature requirement of the general education component

ESPA 3011 - Introduction to Linguistics

Three credits. Three hours of lecture a week.

REQUIREMENT : ESPA 3211-3212

Introduction to the study of the different linguistic manifestations throughout the twentieth century. A study of the various linguistic theories and the description of problems specific to the discipline.

ESPA 3012 - Introduction to Linguistics II

Three credits. Three hours of lecture a week.

Description of the basic units of linguistic analysis (semantics) and of the processes of change in the synchronic and diachronic perspective.

ESPA 3013 - Introduction to Linguistics Compendium

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

PREREQUISITES: ESPA 3211-3212 (INTRODUCTION TO SPANISH LITERATURE).

Study of the fundamentals of linguistic analysis applied to Spanish as a system, taking into account the phonetic and phonological, morphological, syntactic, semantic and pragmatic levels. Exercises for the identification of linguistic units.

FACE-TO-FACE, HYBRID AND ONLINE COURSE

ESPA 3016 - ENTREPRENEURSHIP AND PUERTO RICAN AND LATIN AMERICAN LITERATURE

Three credits. One hour of lecture and two hours of discussion per week. Presentation of fundamental concepts of professional and business communication through pedagogical material composed of literary works in various genres. Essays, narratives, theatre and poetry make up the material that will be used to expose issues specific to the professional field in order to develop in students the ability to work effectively in teams. The aim is to empower students with the acquisition

of oral, written and interpersonal communication skills that are essential for their effective performance in the professional environment. Dual coding course with COEM 3016. P H L

ESPA 3026 - Grammatical Aspects of Communication

Three credits. Three hours of lecture a week.

Spanish grammar based on a syntactic criterion; punctuation and morphology integrated into this syntactic criterion; Readings; application.

ESPA 3155 - Language and Communication

Three credits. One hour of lecture and two hours of discussion per week. Description of the structures of Spanish and its communicative function with the aim of understanding and producing different types of oral and written discourses (descriptive, narrative, expository and argumentative). Development of communicative skills in Spanish from the perspective of discourse (scientific, literary, legal, informative, conversational).

ESPA 3167 - Language Acquisition

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

Analysis of the theoretical postulates and methodologies used in the study of language acquisition, which includes the processes of comprehension and production. Description of the stages of acquisition: study of the linguistic universals that govern it. Phonological, morphosyntactic and lexical acquisition. Conditioning factors.

ESPA 3201 - Literary Genres: Narrative and Theatre

Three credits. Three hours of lecture a week.

Study of the evolution and technique of narrative and dramatic literary genres through the analysis of texts and selections of the most representative authors. P, H and L

ESPA 3202 - Literary Genres: Poetry and Essay

Three credits. Three hours of lecture a week. Prerequisites: Basic Spanish or its equivalent. Study of the evolution and technique of literary genres and essays through the analysis of texts and selections of the most representative authors. P, H and L

ESPA 3208 - Writing and Style

It is a practical course in writing and composition that covers from the writing of the simple sentence to that of the complete essay. Emphasis will be placed on the following qualities of style: clarity, precision, coherence, correctness and sobriety, and attention will be paid to the enrichment of vocabulary. P, H and L

ESPA 3209 - Narrative Theory and Practice

Four credits. One hour of lecture and three hours of discussion per week. Prerequisite: Basic Spanish or equivalent.

Theory and practice of narrative art to develop the talent and aesthetic sensibility of the student who wants to write.

ESPA 3211 - Introduction to Spanish Literature I

Three credits. Three hours of lecture a week.

Study of the literary currents, authors and representative works of Spanish literature from the Middle Ages to the Renaissance in the first semester. Face-to-face, hybrid and online course.

ESPA 3212 - Introduction to Spanish Literature II

Three credits. Prerequisite: ESPA 3211.

Study of the literary currents, authors and representative works of Spanish literature from the Golden Age to the present day in the second semester. Face-to-face, hybrid and online course.

ESPA 3213 - Debates in Contemporary Spanish Literature

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Study of Contemporary Spanish Literature in Representative Works and Authors

ESPA 3226 - Linguistics Applied to Spanish as a Mother Tongue

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

Studies of the main theories on the psychosociolinguistic processes involved in the acquisition and learning of languages (linguistic universals). Methodological exercises applied to the teaching of the mother tongue.

ESPA 3246 - Language & Culture

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

Study of the relationship between language and culture. Examination of the theoretical postulates and methodologies developed by the sociology of language, ethnolinguistics and linguistic anthropology in the study of the interaction between human groups, cultural elements and the use of certain linguistic forms. P, H and L

ESPA 3291 - Spanish Grammar: Nominal group three credits. Three hours of lecture a week. Prerequisite: Basic Spanish or equivalent.

Study of the morphosyntactic aspects of the Spanish language in a descriptive way, starting from the simple sentence to include coordination and subordination. Text analysis presenting the different linguistic levels and their values. P, H and L

ESPA 3292 - Spanish Grammar: Verbal Group

Three credits. Three hours of lecture a week. Prerequisite: ESPA 3292.

Study of the morphosyntactic aspects of the Spanish language in a descriptive way, starting from the simple sentence to include coordination and subordination. Text analysis presenting the different linguistic levels and their values. P, H and L

ESPA 3401 - Myths about Language and Linguistics THREE CREDITS. AN HOUR AND A HALF OF LECTURE AND AN HOUR AND A HALF OF DISCUSSION PER WEEK.

Evaluation and analysis of several myths about language and linguistics. Description of the main subdisciplines of linguistics in which these myths are clarified or corrected. Discussion of studies corresponding to linguistic subdisciplines, in which cognitive and social aspects of language are examined. Definition of the profession of linguists and description of the relationship between linguistics and other disciplines.

FACE-TO-FACE, HYBRID AND ONLINE COURSE.

ESPA 3801 - Seminar on Current Hispanic American Narrative

Three credits. Three hours of lecture a week. Approach to the current Hispanic American narrative. Study of

fundamental concerns and their means of expression, seen through the most representative authors.

ESPA 3802 - Seminar on Current Hispanic American Narrative

Three credits. Three hours of lecture a week. Prerequisite: ESPA 3801. Approach to the current Hispanic American narrative. Study of their fundamental concerns and their means of expression, seen through the most representative authors.

ESPA 3805 - Spanish Language Composition

Three credits.

It will consist mainly of oral and written composition with grammatical notions of the morphosyntactic structure of the Spanish language, as the different problems that the students have arise.

ESPA 4008 - Phonology and Phonetics of Spanish

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: ESPA 3011 or 3012 or ESPA 3013 or equivalent or teacher's permission.

Identification and study of the phonic units of the Spanish language and its dialects based on current models and using instruments for acoustic and articulatory analysis. Description of phonic units and their variants: inherent and suprasegmental features. Systematic relationships and trends. Acoustic-articulatory analysis and phonetic transcription exercises. P, H and L

ESPA 4009 - Debates in Spanish Literature: Middle Ages to the Renaissance

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

Study of the validity of the main works from the Middle Ages to the Renaissance and examination of the fundamental debates around this literature from a historical and interdisciplinary perspective. El Cid, fragments of the book of Buen Amor, La Celestina, El Lazarillo de Tormes, and the Renaissance poets of Garcilaso and San Juan de la Cruz will be studied. The course is an option to fulfill the literature requirement of the general education component. FACE-TO-FACE COURSE, HYBRID & ONLINE

ESPA 4011 - Hispanic Linguistics: Diachrony of Spanish

Three credits. Three hours of lecture a week.

Origin and development of the Spanish language; special study of the current state of Spanish in America and Puerto Rico. PHL

ESPA 4012 - Hispanic Linguistics: Spanish in the Americas

Three credits. Prerequisite: ESPA 4011. Origin and development of the Spanish language; special study of the current state of Spanish in America and Puerto Rico. P, H and L

ESPA 4013 - Compendium of Hispanic Linguistics

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

This course takes a closer look at Spanish as an Indo-European language today. It takes as its starting point what is most familiar and relevant to the student, the characteristic features of their own speech as members of the community of Spanish speakers in the Americas, and then presents

how they are inserted into general Spanish. In addition, a diachronic approach is made in order to familiarize the student with some of the proposals on possible evolutionary origins of Spanish.

ESPA 4016 - Hispanic American Fantasy Literature

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

In this course, fantastic literature in Latin America will be studied, specifically in the works of authors such as Horacio Quiroga, Jorge Luis Borges, Julio Cortázar, among others, to comment on the relationships of the fantastic, surrealism, the marvelous real and magical realism from an interdisciplinary perspective. It is designed for students who need to meet the literature requirement of the general education component, in addition to students in the concentration in Hispanic studies and other related areas.

ESPA 4018 - Renaissance Literature of the Golden Age

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

This course studies the canonical and anti-canonical literature of the Spanish Renaissance written in the strictest repression of inquisitorial censorship in Golden Age Spain. The concept of canon is analysed and how many of the authors of the Spanish Renaissance chose to submit to the canon approved at the time, while others preferred to subvert it. Renaissance literature is studied, starting with Celestine literature to Lazarillo de Tormes. This course is elective for Hispanic Studies concentration majors; In addition, it is an option to fulfill the literature requirement of the general education component. This course may be equivalent to the ESPA 4251 course or to the Golden Age courses offered at other institutions. PHL

ESPA 4019 - Spanish Baroque Literature

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

This course studies the canonical and anti-canonical literature of the Spanish Baroque. Written in the strictest repression of the Spanish Golden Age. The concept of canon will be studied and how many of the authors of the Spanish Baroque chose to submit to the canon approved at the time, while others preferred to subvert it. It will be studied from Quevedo and Góngora to Lope. Cervantes and Calderón. This course is elective for students in the Hispanic Studies concentration, and is an option to fulfill the literature requirement of the Hispanic Studies component.

general education. FACE-TO-FACE, ONLINE AND HYBRID COURSE. EFFECTIVE JANUARY 2021.

ESPA 4020 - Practical Short Narrative Workshop

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

Workshop with a variable theme whose purpose is to strengthen the practical and theoretical knowledge of the genre of short fiction in some of its modalities. It is aimed at students of Spanish, writing and creative writing who are interested in literary creation from a comprehensive perspective that unifies theory with practice. Up to eight credits may be repeated with different topics of study.

TOPIC: SHORT STORY - FACE-TO-FACE COURSE, HYBRID AND ONLINE

ESPA 4026 - Gothic Literature in Latin America

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

In this course, Latin American Gothic literature will be studied, specifically in works by authors such as Rubén Darío, María Luisa Bombal and Carlos Fuentes, among others, to comment on the philosophical and aesthetic foundations that drive the gestation of this modality from an interdisciplinary perspective. It is designed for students who need to meet the literature requirement of the general education

component, in addition to students in the Hispanic studies concentration and other related areas.

ESPA 4027 - 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 illustration in Spain, along with that of writers traditionally classified under the rubric of "Spanish romanticism." The specific factors that conditioned the appearance of the enlightened and romantic spirit in Spain are studied, as well as its evolution. Through the careful reading of the selected texts and the dialogue in class, the treatment of some of the themes that characterize the literature of this period will be analyzed. This course is an option to fulfill the literature requirement of the general education component.

ESPA 4028 - Psycholinguistics

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

This course explores, within an interdisciplinary framework, the links and relationships that exist between the biological, cognitive, and other components of human language that affect the processes of its acquisition, development, and use.

ESPA 4066 - Linguistic Research Seminar

Three credits. Three hours of seminar per week. Prerequisites: 18 credits, including ESPA 3011-3012 or ESPA 3013 (Introduction to Linguistics, Compendium), ESPA 4011-4012 (Hispanic Linguistics), ESPA 4008 (Spanish Phonetics and Phonology), ESPA 4236 (Spanish Morphosyntax), and ESPA 4116 (Spanish Lexical-Semantics) (courses submitted for enrollment). Study of the different methods-procedures, techniques and strategies of linguistic research with the aim of selecting, designing and developing a research topic at any level of the language (phonetic and phonological, morphosyntactic, lexical-semantic or discourse). Quantitative and qualitative analysis of the linguistic data collected by the students. COURSE

FACE-TO-FACE, HYBRID, AND ONLINE.

ESPA 4085 - Theoretical Foundations of the Sociology of Literature and its Application to the Spanish-American Novel

Three credits. Three hours of lecture a week. Prerequisite: ESPA 4221-4222, SOCI 3135 or HIST 3211-3212. It consists of the basic study of the evolution of the sociology of literature, its theoretical foundations and the main sociological currents with special attention to the sociology of escarpia and that of Goldman. In addition, its application to the analysis of some Latin American novels.

ESPA 4106 - The Poetics of Poets

Three credits. Two hours of discussion and one hour of lecture per week. Prerequisite: Have passed at least 3 credits in Hispanic literature or comparative literature.

Study of representative prose texts, written by poets, in which modern poetry is reflected on in a comprehensive manner. It proposes the exploration of a heterogeneous corpus on the deep structure of poetic production belonging to poets from Europe, America and the Caribbean.

and

ESPA 4107 - Contemporary Cuban Literature

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

Analysis and discussion of literary works of contemporary Cuba, from a

interdisciplinary, and with particular attention to the representation of the city of Havana and the history of the twentieth century, which includes the production of exiled writers and the youngest. This course is an option to fulfill the literature requirement of the general education component.

ESPA 4115 - Debates in Spanish Literature: Baroque to Avant-Garde

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

Study of the validity of the main works from the Baroque to the avant-garde and examination of the fundamental debates around this literature in a historical and interdisciplinary context. This course may be taken as an option to fulfill the literature requirement of the general education component. Face-to-face, hybrid and online course.

This

ESPA 4116 - Lexico-Semantics of Spanish

Three credits. Two hours of lecture and one hour of discussion. Prerequisites: ESPA 3011-3012-Introduction to Linguistics or ESPA 3013-Introduction to Linguistics (compendium) course submitted for enrollment.

Study of the significant units of the Spanish language: semantic features, compositional analysis, semantic fields and meaningful relations between its units. The meaning beyond the word is analysed from the current theoretical models of semantics. Practical exercises of synonymy, antonymy, ambiguity and selection. FACE-TO-FACE COURSE, HYBRID AND ONLINE.

ESPA 4195 - Hispanic Dialectology

Three credits. Two hours of lecture per week, 1 hour of discussion. Prerequisites: ESPA 3011-3012 or ESPA 3013.

Study of the criteria, theories and methods of modern dialectology and their application to the Spanish language. Synchronic examination of the Spanish language as a diasystem in which dialectal varieties coexist. Identification and explanation of the linguistic factors that condition the (inter)dialectal variation.

ESPA 4205 - Stylistics

Three credits. Three hours of lecture a week.

Study of spoken language and literary language in its affective and imaginative aspects.

ESPA 4206 - Margins in Golden Age Literature

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

This course offers an overview of social marginality in various literary texts belonging to the Spanish Golden Age. These works will be contextualized within the historical and cultural panorama of the time and from an interdisciplinary perspective. This course counts as an option to fulfill the literature requirement of the general education component. Face-to-face, hybrid and online course.

ESPA 4213-Debates in Contemporary Spanish Literature

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Study of contemporary Spanish literature in representative works and authors.

Face-to-face, hybrid and online course.

ESPA 4221 - Study of Hispanic American Literature from its Origins to the Modernist Era

Three credits. Three hours of lecture a week. (C) PHL

ESPA 4222 - Hispanic American Literature II

Three credits. Three hours of lecture a week.

Study of Latin American Literature from the beginning of the 20th century to the boom. PHL

ESPA 4225 - Literature of the Conquest

Three credits. Three hours of lecture a week.

Comparative study of indigenous and Spanish literatures about the conquest of America and the historical trajectory of its interpretation, with special emphasis on historical and aesthetic perspectives, and on the interrelation of the icon (the image) with the word as vehicles of cultural expression. This course is an option to fulfill the literature requirement of the general education component.

ESPA 4226 - Contemporary Hispanic American Literature

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Evaluation and Analysis of the Latin American Literature of the Promotion of Writers from the Forties to the Present. P, H and L.

ESPA 4231 - Puerto Rican Literature I

Three credits. Three hours of lecture a week. Prerequisite: ESPA 3211-3212. Study of the history of Puerto Rican literature from its origins to contemporary times and of the main works and authors. Face-to-face, hybrid and online course.

ESPA 4232 - Puerto Rican Literature II

Three credits. Three hours of lecture a week.

Prerequisite: ESPA 3211-3212. Study of the history of Puerto Rican literature from its origins to contemporary times and of the main works and authors. Face-to-face, hybrid and online course.

ESPA 4233 - Contemporary Puerto Rican Literature

Three credits. Three hours of lecture a week. Prerequisite: Basic Spanish or equivalent.

Study of contemporary Puerto Rican literature from the mid-twentieth century to the present. P, H and L.

ESPA 4236 - Spanish Morphosyntax

Three credits. One hour of lecture and two hours of discussion.

Prerequisites: ESPA 3011-3012 Introduction to Linguistics or ESPA 3013 Introduction to Linguistics (compendium) (course in the process of registration).

Identification of the morphological and syntactic units of Spanish based on current models of morphosyntax. Study of the general paradigms of derivation and inflection, formal categories, word order, structure and function. Practical exercises in identifying morphemes and word order.

ESPA 4237 - Literature and Science in Puerto Rico

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

Discussion of the stylistic, thematic and ideological relationship between Puerto Rican literature and

scientific discourse during the nineteenth and twentieth centuries. The course is aimed at 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 literature requirement of the general education component.

ESPA 4265 - Hispanic American Literature (Compendium)

Three credits. Three hours of lecture a week. A compendium course on Latin American literature from colonial times to the present day. Lectures, readings, commentaries on texts of the movements and main authors.

ESPA 4266 - Mythology and Hispano-American Literature

Three credits. Two hours of lecture and one hour of discussion per week. Study of mythology in Latin American literature from an interdisciplinary perspective. Works of various genres by Latin American writers from different historical periods will be considered. This course is an option to fulfill the literature requirement of the general education component.

ESPA 4267 - Puerto Rican Literature (Compendium)

Three credits. Three hours of lecture a week. Consolidated course of Puerto Rican literature, its development and its peculiarities within the Latin American framework.

ESPA 4281 - Lyric Poetry of Puerto Rico

Three credits. Three hours of lecture a week. A panoramic study of Puerto Rican lyric poetry from its beginnings to the present day. The most significant figures in their themes and personal and period style will be studied.

ESPA 4282 - Lyric Poetry of Puerto Rico

Three credits. Three hours of lecture a week. A panoramic study of Puerto Rican lyric poetry from its beginnings to the present day. The most significant figures in their themes and personal and period style will be studied.

ESPA 4286 - Hispanic Poetry Seminar

Three credits. Three hours of seminar. Up to a maximum of six credits. Analysis and discussion of poetic works written in Spanish, both Spanish, Latin American and Puerto Rican from an interdisciplinary perspective. Special attention is paid to the development of critical competence in the context of the production of Hispanic literature. The texts analysed and the theoretical basis will vary depending on the topic. The course may be repeated up to a maximum of six credits with different topics of study. This course is an option to fulfill the literature requirement of the general education component.

ESPA 4331 - The Theatre of Federico García Lorca I

Three credits. Three hours of lecture a week. Study of the author's dramatic technique through the analysis of his theatre, in relation to the latest classifications of theatrical genres.

ESPA 4332 - The Theatre of Federico García Lorca II

Three credits. Three hours of lecture a week.

Study of the author's dramatic technique through the analysis of his or her in relation to the latest classifications of theatrical genres.

ESPA 4406 - Seminar on Cross-Cultural Perspectives on Hispanic Literature

Three credits. Three hours of seminar per week.

Seminar for the analysis and discussion of different topics of Hispanic literature that trace correspondences and continuities between literary production on both sides of the Atlantic. A corpus of Spanish literature and Latin American literature is explored, as pertinent to the topic. Special attention is paid to the development of critical competence in the context of the production of Hispanic literature. The texts analysed and the theoretical basis will vary depending on the topic. The course can be repeated up to a maximum of 6 credits with different topics of study.

ESPA 4805 - The Narrative of Onetti Cortázar and Borges

Three credits. Three hours of lecture a week Study of the Short Story of Three Representative Authors of Contemporary Latin American Literature: Juan Carlos Onetti, Julio Cortázar and Jorge Luis Borges. Analysis of the techniques by means of which the literary text is made, taking contemporary formalist studies as a critical reference.

ESPA 4806 - The Poetry of Vallejo, Neruda and Gorostiza

Three credits. Three hours of lecture a week.

The work of three representative poets of Latin American literature will be examined. The poetic text will be carefully analyzed from a formalist approach that allows the study of the techniques through which the writer forges his poetic world. The literary and historical conditions that influenced the worldview and creative art of these poets will be studied. The literary theories postulated by the writers and their relationship with the creative exercise will be considered.

ESPA 4886 - Introduction to Literary Theory

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

The course will examine representative texts from the most important schools of literary theory of the twentieth century: Russian formalism, *new* criticism, structuralism and deconstruction, Marxist, feminist, postcolonial and psychoanalytic criticism. The course is aimed at students who plan to pursue studies in the field of literary studies. FACE-TO-FACE, HYBRID AND ONLINE.

ESPA 4887 - Seminar on Research Methods and Dissertation Writing.

Three credits. Three hours of seminar per week. Prerequisite: ESPA 4886.

Study and application of research methods in the field of Hispanic studies. The course is aimed at the development, writing and correction of a dissertation. It is aimed at students of the concentration in Hispanic studies literature. P, H and L.

ESPA 4990 - Special Topics in Hispanic Studies

One to three credits. One to three hours of seminar per week. Prerequisites: Teacher's authorization.

Analysis and discussion of topics in Hispanic literature. A particular corpus of Hispanic literature is

explored in the context of a particular debate in the discipline. In each case, the development of critical competence in the context of the production of Hispanic literature is addressed. The texts analysed and the theoretical basis will vary depending on the topic. The course may be repeated up to a maximum of six credits with different topics of study.

ESPA 4991 - Interdisciplinary Approaches to Hispanic Linguistics

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

Description of the scientific study of language from an interdisciplinary perspective, both at the level of general linguistics and at the level of particular linguistics. Examination of the internal (i.e.cognitive) aspects related to language acquisition, production, and comprehension. Analysis of external factors (i.e. social) on language use.

ESPA 4992 - Special Topics in Creative Writing

One to three credits. Half an hour to an hour of lecture and half an hour to two hours of workshop per week. Prerequisites: Teacher's authorization.

Analysis and discussion in creative writing. It explores the history and practice of genres of various genres in the context of a particular debate. The development of writing skills for creative writing is addressed. The texts analysed and the theoretical foundations will vary according to the genre selected. The course can be repeated up to a maximum of six credits with different study topics.

Different topics of study. Topic: Poetry Workshop - face-to-face, hybrid and online course. This course is double coded with ESIN 4992.

ESPA 4993 - Interdisciplinary Topics in Caribbean Literature and Culture

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

Analysis and discussion of themes of contemporary Caribbean literature and culture that trace correspondences and continuities between various aesthetic productions, both from the Spanish-speaking Caribbean and from the French-speaking and English-speaking Caribbean. A literary and cultural corpus is explored in relation to various manifestations, with special attention to the problematization of the Caribbean space and the reflection on the Caribbean through its literature and culture. The texts analysed and the theoretical basis will vary depending on the topic. The course may be repeated up to a maximum of six credits with different topics of study. This course is an option to fulfill the literature requirement of the general education component.

ESPA 4997 - Hispanic Dramatic Literature

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

Analysis and discussion of dramatic works written in Spanish, both Latin American and Puerto Rican, among others. The work and its relationship with the author, the period, criticism and literary theory will be addressed from an interdisciplinary perspective. The texts and theoretical basis will vary depending on the topic. The course may be repeated up to a maximum of six credits with different topics of study. This course is an option to fulfill the literature requirement of the general education component. P, H and L.

ESPA 4998 - Interdisciplinary Themes in Spanish Literature

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

Analysis and discussion of Spanish literature that trace correspondences and continuities between different artistic productions, as the same cultural phenomenon. A corpus of Spanish literature is explored in relation to other cultural manifestations, such as the visual arts, music, cinema,

performance, etc., depending on the topic. Special attention is paid to the development of critical competence in the context of the production of Hispanic literature. The texts analysed and the theoretical basis will vary according to the topic, the course can be repeated up to a maximum of six credits with different topics of study. This course is an option to fulfill the literature requirement of the general education component. P, H and L.

ESPA 4999 - Interdisciplinary Themes in Hispanic American Literature

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

Analysis and discussion of themes of Latin American literature that trace correspondences and continuities between different artistic productions as the same cultural phenomenon. A corpus of Latin American literature is explored in relation to other cultural manifestations, such as the visual arts, music, cinema, performance, etc. As pertinent to the topic. Special attention is paid to the development of critical competence in the context of the production of Latin American literature. The texts analysed and the theoretical basis vary according to the topic. The course can be repeated up to a maximum of 6 credits with different topics of study. This course is an option to fulfill the literature requirement.

FILO 3003: Introduction to Philosophy

Introduction to the methods of philosophy, its problems and questions throughout history, and examination of philosophy's relationship to other disciplines and its place in society. Modality: P, H and L.

FILO 3015: Problems and Concepts of Ancient Thought: Metaphysics and Epistemology

Through the philosophers of antiquity, we will study the problems and concepts of various theories of ancient knowledge, for example: the difference between opinion and philosophical knowledge in the Pre-Socratics and Plato; the status of language in the Sophists and in Plato. In addition to the problems and concepts of various ancient metaphysical theories such as: the nature of being in materialist thinkers such as Empedocles or Epicurus, or the Platonic theory of forms and their relationship with the sensible world. Modality: P, H and L.

FILO 3025: Problems and Concepts of Ancient Thought: Ethics and Politics

Through ancient authors, the problems and concepts of various ethical theories will be studied, for example, the problem of the acquisition of virtue and various answers, such as that of Plato or Aristotle. Problems and concepts of various political theories will also be studied, such as the constitution of the best political regime in Plato or Aristotle, or the nature and function of the law in Plato, Aristotle or Lucretius. Modality: P, H and L.

FILO 3045: Pre-Philosophical Thought

The origin of thought and its cultural manifestations will be systematically examined. For example, in the wisdom of oriental peoples or pre-Columbian civilizations. The intimate relationship of this thought with ethics and religion will be emphasized; The differences and similarities with Western thought and the political and social systems that gave rise to it will be seen. Modality: P, H and L.

FILO 3065: Medieval Philosophy

Prerequisite: FILO 3001 After a brief introduction on the origins of Christian thought (in the patristic stage) they will study representative works of thinkers such as St. Augustine, St. herself

Anselm, St. Bonaventure, St. Thomas, G. de Occam and Duns Scotus. At the end, the changes that led to the emergence of modern (Renaissance) thought will be studied.

FILO 3176/ESIN 3176: Research Methods in the Humanities: Monographs and Dissertations

This course offers students the opportunity to acquire advanced knowledge about the process of searching for and managing information and research in the Humanities. A monograph or a thesis proposal will be submitted as a final product.

FILO 3177: Philosophy and Cinema

This course explores what philosophers have reflected on cinema as a genre and the ways in which it exemplifies or proposes philosophical ideas in new ways. Some of the most obvious thematic links between cinema and philosophy will also be discussed, such as: the relationship between image, appearance and reality; narrative, memory, construction of the subject; testimony and truth; experience and temporality, among others. Modality: P, H and L.

FILO 3195: Ethics from a Global Perspective

Ethical analysis applied to social, environmental and economic problems with global repercussions whose solutions require concerted group and individual efforts. Emphasis will be placed on the study of possible ethical solutions in the analysis of the ethical responsibilities of citizens of developed countries. Modality: P, H and L.

FILO 4010: French Philosophy

In this course, the main French philosophers from the Renaissance to the contemporary era will be studied, in the great diversity of their themes and currents. The course will give special attention to the study of the French philosophical language, in particular to the translation of central concepts. Modality: P, H and L.

FILO 4016: Analysis of Educational Concepts

Prerequisite: FILO 3001.

Analysis of core educational concepts, examining the relationship of the so-called essential elements of the educational process: i.e., aims of education, teaching, learning, experience, curriculum, method, moral education, freedom and responsibility in education.

FILO 4019: Introduction to Nietzsche

Course aimed at the introductory study of the work of F. Nietzsche (1844-1900). The course will consist of the discussion of selections of his most representative works, from his earliest works to those of his mature period. Modality: P, H and L.

FILO 4021: Ethics

Representative philosophical writings will examine fundamental concepts and theories of ethics in both antiquity and the present. Modality: P, H and L.

FILO 4022: Issues and Problems of Ethics

Critical study of some of the problems facing ethics in the current era, such as, for example, the challenges arising from the development of specialized sciences and global society.

FILO 4024: Clinical Ethics

The philosophical, social and cultural aspects relevant to some of the problems will be examined

ethical issues that emerge today in the field of life sciences, with special attention to clinical ethics. Key concepts such as health, disease, diagnosis, self-care, attention and clinical care will be examined, as well as the conflicts and ethical solutions raised in the context of a health culture morally marked by the value of personal autonomy and the aspiration to equality of all human beings. Modality: P, H and L.

FILO 4031: Logic I

Introduction to Logic. The following topics will be studied: valid forms of reasoning (with analysis of examples) and invalid forms (fallacies); rules of inferences; demonstrations (with exercises); syllogistic; Natural deduction methods. Propositional logic: the language \mathcal{L}_0 : notation, formation rules, veritative tables; normal disjunctive shape and reduction of connectives; axiomatization; completeness, consistency, and decidability. Modality: P, H and L.

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CUT 4032: Meta-logic

Prerequisite: FILO 4031 Study of the most important properties of logical languages and systems of deduction. Some of the topics to be covered are: the syntax and semantics of first- and second-order logic; concepts of demonstration, interpretation, axiomatization, consistency, completeness, compactness, and categoricity.

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FILO 4055: Seventeenth-Century Philosophy: Descartes to Leibniz

A textual, conceptual and historiographical approach to some of the most representative figures of Western philosophical thought of the seventeenth century. Modality: P, H and L.

FILO 4065: Modern Ethics

Study of the ethical dimension in philosophical works belonging to the historical arc that begins in the seventeenth century and ends with the critical genealogical approaches to morality that emerged in the nineteenth century. Modality: P, H and L.

FILO 4075: Pragmatism

Analysis of the origins of pragmatism and the foundational philosophical writings of Charles Peirce, William James, and John Dewey. Analysis of the central ideas of pragmatism: i.e. relationship, theory and practice; function of ideas; experience and experimentalism, research logic, valuation theory, philosophical and social reconstruction. Examination of the decline and recent return of pragmatism due to the rereading of pragmatist classics by contemporary authors.

FILO 4181: Pre-Socratic Philosophy

Examination of some of the major works of the pre-Socratic philosophers. Modality: P, H and L.

FILO 4195: Platonic Philosophy

Problems and basic concepts of Plato's philosophy through the direct study of some of his texts. Modality: P, H and L.

PHILUM 4205: Aristotelian Philosophy

Problems and basic concepts of Aristotle's philosophy through the direct study of some of his texts. Modality: P, H and L.

FILO 4212: Hellenistic Philosophy

Historical overview of the diversity of Hellenistic thought. In particular, the following will be studied:

At least, three representatives of the three main schools, e.g., an Epicurean, a Stoic, a skeptic. Modality: P, H and L.

FILO 4215: Philosophy of Mind

The course combines readings by classical philosophers with recent and contemporary readings on the subject. It examines the problem of the nature of mental states, the most influential general propositions concerning the mind/body problem: dualism, materialism, idealism, and functionalism, and then examines the problem of mental causation (the question of the causal powers of mental states). The nature of the relation between thought and imagination is examined, considering the problem of the nature and function of mental images. The differences and similarities between connectionism and associationism are studied, and the problem of whether or not the existence of innate ideas can be justifiably asserted is examined.

FILO 4217: Metaphor and Thought

Study of recent proposals on the nature of metaphor. Some of the topics
The following are discussed: semantic approaches, pragmatic approaches to metaphor, non-linguistic metaphors, metaphor and cognition, the role of metaphor in science and philosophy, metaphor and culture.

SECTION 4245: Kant's Philosophy

A study of Kant's thought through some of his three critiques, other minor texts, and the commentaries of his critics and exegetes. Modality: P, H and L.

FILO 4246: Eighteenth-Century Philosophy: From Locke to Kant.

A textual, conceptual and historiographical approach to some of the most representative figures of eighteenth-century Western philosophical thought. Modality: P, H and L.

FILO 4252: German Philosophy

Study of German philosophy from the nineteenth century to the present, dealing with topics such as Romanticism, German Idealism and their critics.

FILO 4254: Vitalist Philosophies

Study of the representative works of the so-called philosophy of life by authors such as Nietzsche, Dilthey and Bergson, among others.

FILO 4261: Existentialism

The historical background, philosophical influences and critiques of existentialism as a philosophical movement and some of its central themes will be studied, such as: freedom, consciousness, subjectivity, responsibility and anguish. The works of some representative thinkers such as: Søren Kierkegaard, Karl Jaspers, Martin Heidegger, Jean Paul Sartre, Simone de Beauvoir and Albert Camus, among others, will be read and analyzed. Modality: P, H and L.

FILO 4262: Origins of Analytic Philosophy

Study of some of the foundational texts of analytic philosophy, by authors such as Frege, Russell, Moore, Wittgenstein, Austin, Carnap, Quine and others. Modality: P, H and L.

FILO 4263: Marx and Marxisms

Both Marx's thought and the development of Marxist thought in its "orthodox" (e.g. Lenin), "neo-Marxist" (e.g. Gramsci), and "post-Marxist" (e.g. Marxist) versions will be studied. Laclau, among others.

FILO 4266: Introduction to Phenomenology

Expositions, explanations and discussions on the historical roots, theoretical tasks, basic concepts and theories, as well as on the main methods of transcendental phenomenology developed by Edmund Husserl. With ideas and as a text-guide, reference is made to the classical ideal of philosophy and its renewal and reformulation in Cartesian philosophy, to the tasks of founding philosophy as a rigorous science with a field of objects susceptible to apodictic knowledge, capable of eidetically describing the structures of consciousness that are a condition of possibility for the appearance of the various categories of objects. Concepts and theories such as the intentionality of consciousness and its structures, the concept of constitution and the transcendental, synthesis, the transcendental ego, rational consciousness and evidence, among others, are discussed. The methods of free variation for the apprehension of essences are discussed, as well as the method of phenomenological reductions.

FILO 4275: History of Logic

The general history of logic from antiquity to the eighteenth century will be studied (Aristotle, Stoic and Scholastic contributions; Port Royal, Leibniz; etc.). In the second part, we will see the development of symbolic logic from its precursors (Boole, De Morgan); Frege's contributions; its constitution in "Principia mathematica"; and the most recent major contributions (Hilbert, Lukasiewicz, Gödel, etc.).

SECTION 4285: Introduction to the Philosophy of Logic

Prerequisite: FILO 4031 Some of the following topics will be studied: the metaphysics of classical logic and some non-classical logics of philosophical interest, such as modal, epistemic and deontic; the relationship between natural language and logical languages; The Epistemology of Logic.

FILO 4301: Theory of Knowledge I

Prerequisite: FILO 3001 Critical study of the theory of knowledge as a special philosophical discipline. Problems such as: the nature of knowledge, the possibility of knowing, how we know, what knowledge is based on, the forms and types of knowledge, etc., will be discussed. The problems will be dealt with in the light of the various theories that have attempted to solve them throughout the history of philosophy.

FILO 4351: Philosophy of Language

Prerequisite: FILO 3003 Some of the following topics will be studied: the nature of language; linguistic meaning; the reference; the uses of language; the mind/language/world relationship; the relationship between natural language and logical languages; the semantics of proper nouns and definite descriptions; The main theories of verbal communication, metaphor.

FILO 4352: Topics in Philosophy of Language

Prerequisite: FILO 3003 Some of the following topics will be studied: the quantification of natural languages;

language and metaphysics; linguistic relativism and linguistic universals; the evolution of language; language and cognition; the notion of truth; Pragmatic theories of meaning.

FILO 4395: Philosophical Cosmology

The study of philosophical thought about the world and its origins from the point of view of different philosophical traditions including: the Western, the Eastern and the pre-Columbian traditions.

FILO 4425: Aesthetics

Critical study of aesthetics as an independent philosophical discipline. The historical development of this discipline and problems such as the foundation of aesthetics, the idea of beauty, aesthetic judgments and the theories of schools such as: formalist, intuitionist, psychological, sociological, axiological, etc., will be studied. Modality: P, H and L.

FILO 4435: Philosophy of Art

Prerequisite: FILO 3001.

The concept of art as it has been historically given from antiquity to the nineteenth century in thinkers such as Plato, Aristotle, Kant, Hegel, Nietzsche, Santayana, James, etc. will be studied. Modality: P, H and L.

FILO 4445: Philosophy of Literature

Prerequisite: FILO 3001 and others.

Philosophical theory of literature (taking into account the three genres that have been classically discussed: lyrical, epic, and dramatic) according to thinkers such as Aristotle, pseudo-Longinus, Boileau, Kant, Hegel, Sartre, etc.

SECTION 4455: Philosophy and Literature

This course will examine the relationship between philosophy and literature from a textual approach, through the study of representative and thematic works, through theoretical discussions (for example, on identity, the tragic and the demarcation between literary and philosophical spheres). Modality: P, H and L.

SECTION 4471: Philosophy of Science I

Prerequisite: FILO 3001 and others.

Introduction to the main problems of the philosophy of science. Nature of Laws in the Empirical Sciences; explanation and prediction; confirmation and classification; the problem of induction; Hierarchy of Laws, Theories, and Reduction of Theories.

FILO 4475: Philosophy of the Human Sciences

Critical discussion of the differences in objectives and methodologies between the natural sciences and the human sciences. Modality: P, H and L.

FILO 4495: Philosophy and Anthropology

General Introduction to Anthropology. Critical exploration of the thematic relationships between these disciplines and the conceptual and argumentative influences between them. Modality: P, H and L.

FILO 4501: Philosophy of the Social Sciences I

Prerequisite: FILO 3001 Definition of the field of social sciences and its differentiation from the natural sciences. Difficulties

inherent to his research: science and ideology; science and valuation. Description and classification of social phenomena. Ideal types. Theories and models. Explanation and comprehension of acts, reasons and causes: human behavior and its interpretation. Prediction in the various social sciences. Statistical methods applicable to them. Individualism and totalism in its methodology.

FILO 4511: Political Philosophy

Study of the conception of the political from antiquity to the present day. Particular attention will be paid to the development of the liberal tradition and its main critics. Modality: P, H and L.

FILO 4512: Liberalism

Reflection on the historical, cultural and conceptual origins of the political tradition called liberalism. Critical examination of some of its philosophical assumptions and core values according to some of its exponents: the individual, freedom, privacy, tolerance and moral neutrality of the political sphere, among others. Pondering the debates it has sparked today, such as its relationship with economic liberalism, limits on private property, tolerance, freedom of expression, and challenges to secularism.

SECTION 4535: Philosophy of Religion

Prerequisite: FILO 3001.

Definition and location of the philosophy of religion within the various disciplines concerned with religion. Study of some central issues, such as: the nature, values and functions of religion; the sense or nonsense of religious language; the relationship between reason and faith; the constitutive elements of religious experience and its epistemic claim, and the critical analysis of arguments for and against the existence of God, among others.

FILO 4539: Philosophy of Law

Consideration of various theories of law, and legal systems, the justification of the state, the relationship between law and morality, and theories of justice, among other topics. Classical and contemporary authors will be used.

FILO4571: History of Ideas I

Prerequisite: FILO 3001 Historical exposition and meticulous examination of the origin and meaning of those ideas and concepts that have formed the mentality of Western man (freedom, reason, god, community, death, truth, etc.) Methodological aspects of a history of ideas will also be discussed: social historical origin of ideas, method and premise of the historical approach to ideas. Certain epistemological cuts will also be made to study complexes of ideas characteristic of certain epochs. Modality: P, H and L.

FILO4581: Philosophy of History I

Prerequisite: FILO 3001 and others.

The different ways of approaching historical development will be examined and the basic concepts and premises of the traditional philosophy of history (its totalizing vision; concepts of progress and meaning; the engine of history, etc.) will be elucidated by authors such as: Augustine, Bossuet, Vico, Voltaire, Hegel, Kant, Marx, Spengler, Toynbee, etc.

SECTION 4582: Philosophy of History II

Prerequisite: FILO 3001.

On the basis of the distinction between philosophy and the science of history (a distinction found in thinkers such as Dilthey, Rickert, Popper, Hempel, Althusser, Danto, Gardiner, Dray), the concepts and assumptions of the philosophy of history will be examined from an analytical-critical point of view.

FILO 4605: Research Methods and Preparation of Philosophy Papers

Prerequisite: FILO 3001 The difficulties in choosing and delimiting an appropriate topic of philosophical research will be examined, both in the case of monographic works and in the case of the master's thesis. Then you will see the procedures of research and preliminary preparation (outlines, notes, files, etc.) and final writing for the presentation of the work (division into parts, bibliographic references, explanatory notes, prologues and conclusions, etc.). A certain topic will be dealt with in the seminar, and a monograph will have to be written on this.

FILO 4655: Great Modern Thinkers

Themes and problems such as reason, subjectivity, the body, affects, and freedom will be examined in the most outstanding thinkers of modern philosophy such as Bacon, Hobbes, Descartes, Pascal, Locke, Leibniz, Berkeley, Hume, Kant, Fichte, Hegel, Schelling, Schopenhauer, Marx, Comte, etc.

FILO 5006: Latin American Philosophy

This course addresses the problem of identity, characteristics, and influences of the various European and U.S. philosophical currents on Latin American philosophy. It also explores the reappropriations that it has made of various currents of thought, giving rise to original cultural contributions within and outside the philosophical field. Modality:

P, H and L.

FILO 5007: Philosophy of Time

History of the philosophical approach to the problem of lived time from its oriental origins to the present.

FILO 5035: Philosophy and aesthetics of music

Exploration of the relationships between the musical arts and individual phenomena (such as cognitive processes) or collective phenomena (such as other artistic genres). This course will require the appreciation of musical works and the reading of philosophical texts on music, covering a selection of both from classical antiquity to the present day. It is aimed at students of music and philosophy and all those interested in exploring the relationships between music and other areas of knowledge and culture. Modality: P, H and L.
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FILO 5036: Philosophy of Photography

A course aimed at the study of themes, concepts, and texts about philosophy in its various epistemological, aesthetic, ethical, and political aspects— to the study of photographers from various schools and of some photographs, in particular, with the purpose of (1) teaching how the various philosophical notions studied in the classroom can be applied and (2) developing philosophical interpretive skills through photography. Modality: P, H and L.

FRAN 3031: Intensive French I (5 hours– 3 crs.)

This course is aimed at beginners and students of French, focused on the development of communicative competence through the practice of the four functional skills of the French language (listening, speaking, reading, writing) and contact with French and French-speaking cultures. Face-to-face, online and hybrid course.

Co-requisite: FRAN 3031L – Intensive French Lab I (2.5 hours– 0 crs.)

FRAN 3032: Intensive French II (5 hours– 3 crs.)

(Prerequisite: FRAN 3031) Continuation of the Intensive French Course I. It focuses on the development of communicative competence through the practice of the four functional skills of the French language (listening, speaking, reading, writing) and contact with French and French-speaking cultures. Face-to-face, online and hybrid course.

Co-requisite: FRAN 3032L – Intensive French Lab I (2.5 hours– 0 crs.)

FRAN 3035: Intermediate for Specialists (4 hours– 3 crs)

(Prerequisite: FRAN 3032) This course completes the introductory cycle to the study of the French language. Communicative competence is strengthened through the practice of the four functional skills of the language (oral and written comprehension, oral and written expression) and contact with culture, while introducing new grammar points at an intermediate level. Face-to-face, online and hybrid course.

FRAN 3060: French Diction and Phonetics (3 crs.)

(Co-requisite: FRAN 3035; i.e., must be taken after or at the same time as FRAN 3035) Study of the sounds, intonation and rhythm of the French language. Oral practice using selections from classical and modern plays, as well as other types of French poetry and prose chosen for this purpose. Face-to-face, online and hybrid course.

FRAN 4008: Advanced Grammar and Composition (3 crs.)

(Prerequisite: FRAN 3035) Develop communicative competence written in French through the study of discursive genres of everyday, academic and professional life, such as: narration, description, review, letter and dissertation. Language registers, rhetorical strategies, vocabulary and, above all, the grammatical elements necessary for the appropriate elaboration of each discursive genre studied will be addressed. This is an intensive writing course. Face-to-face, online and hybrid course.

FRAN 4016: Speaking Techniques (3 crs.)

(Prerequisite: FRAN 3035) Study and practice of the various techniques of communication and analysis of oral texts. Face-to-face, online and hybrid course.

FRAN 4021: Contemporary French Society I (3 crs.)

(Prerequisite: FRAN 3035) Study of the contemporary French nation through its social, political, economic, religious and cultural aspects. Face-to-face, online and hybrid course.

FRAN 4022: Contemporary French Society II (3 crs.) FRAN

4148: La Francophonie and the Francophone World (3 crs.)

(Prerequisite: FRAN 4008) A panoramic view of the development of La Francophonie from the emergence of this concept at the end of the 19th century to its concretization in the mid-20th century, first as a cultural movement, then as a political movement at the dawn of the 21st century. Description of the linguistic situation of a representative sample of the wide range of countries in the French-speaking world.

FRAN 4155: French Civilization (3 crs.)

(Prerequisite: FRAN 3035) Study of the physical, intellectual, artistic and social aspects of France and its people from the beginning of its history.

FRAN 4001: Introduction to French Literature I (3 crs.)

(Prerequisite: FRAN 4008) Study of key texts of French literature from the Middle Ages to the seventeenth century, and of the literary schools or periods that frame them, with special emphasis on the study of literary history, critical reading and literary analysis. Face-to-face, online and hybrid course.

FRAN 4015: French Literature of the Sixteenth Century (3 crs.)

FRAN 4025: French Classical Theatre (3 crs.)

(Prerequisite: FRAN 4008) Intensive study of representative works by the three great authors of French classical theatre: Corneille, Racine and Molière. Face-to-face, online and hybrid course.

FRAN 4105: French Classicism (3 crs.)

(Prerequisite: FRAN 4008) Study of the great authors of representative French classical texts, lectures and reports.

FRAN 4002: Introduction to French Literature II (3 crs.)

(Prerequisite: FRAN 4008) Study of key texts of French literature from the eighteenth century to the end of the twentieth century, and of the literary schools or periods that frame them, with special emphasis on the study of literary history, critical reading and literary analysis. Face-to-face, hybrid or online course.

FRAN 4005: Twentieth-Century French Novel (3 crs.)

(Prerequisite: FRAN 4008) Study and analysis of the subject matter and stylistics of outstanding authors of the genre.

FRAN 4026: African Literature and Cinema (3 crs.)

(Prerequisite: FRAN 4008) Through a variety of films, the course provides a forum for debate on cultural and historical aspects of Africa and highlights the parallels between film and literature. In particular, we will see to what extent the evolution of French-language cinema corresponds to the changes experienced by traditional societies faced with the challenges of modernity. The focus of this debate revolves around the factors that determine the representation and expression of African and Maghreb women. We will be interested in the new cinema of immigration in France and on the issues of displacement, identity exile and cultural miscegenation. The course follows a thematic, literary and filmic criterion, with the aim of enhancing the originality and relevance of French-speaking African cinema.

FRAN 4027: The French Realist and Naturalist Novel (3 crs.)

(Prerequisite: FRAN 4008). Presentation of the French realist and naturalist novel. The function of the novel in France in the 19th century will be studied from the realist tradition represented by Stendhal and Balzac to the naturalistic novel of Zola. Within this movement, the representation of reality in Parisian society in contrast to the provinces will be studied, and the influence of the "milieu" on the evolution of the characters. This course requires intensive reading, analysis and writing work and an advanced level of language. Face-to-face, online and hybrid course.

FRAN 4029: Childhood in Contemporary French Literature and Cinema (3 crs.)

(Prerequisite: FRAN 4008) An elective course that aims to familiarize French students with the most contemporary French novels and films through the analysis of one of its central themes: the perspective of childhood. The course is divided into three parts: how children learn to balance and integrate their school and social learning, how children's dreams collide with reality, and how descendants of immigrants deal with their specific challenges.

FRAN 4035: French Theatre of the 20th Century (3 crs.)

(Prerequisite: FRAN 4008) Critical study of representative works and dramatic theories from Jarry to Ionesco and Beckett.

FRAN 4038: Disguise and Other Themes in George Sand's Work (3 crs.)

(Prerequisite: FRAN 4008) Several themes will be presented in the George Sand plays: romantic heroines, inter-class marriage, women's education, heroine, and disguise. Those themes will be examined in the development of the identity of heroines for the creation of an independent artist heroine in 5 novels by George Sand: Indiana, Lélia, Rose et Blanche and Consuelo. This course requires intensive reading, analysis and writing work and an advanced level of language

FRAN 4055: French and West Indian Surrealism (3 crs.)

(Prerequisite: FRAN 4008) Surrealist movement in France and its influence on French-language literature

FRAN 4076: French Romanticism (3 crs.)

(Prerequisite: FRAN 4008) Presentation of the great currents and authors of French romanticism of the eighteenth century (Jean-Jacques Rousseau, Bernardin de Saint-Pierre), through three literary genres: poetry, theatre, novels. This course will focus on the following topics: nature, the romantic hero, and dream and daydreaming.

FRAN 4131: Contemporary Literature (3 crs.)

(Prerequisite: FRAN 4008) Lectures, readings and reports on the literary trends of the 20th and 21st centuries.

FRAN 4135: Introduction to the Contemporary Quebec Novel (3 crs.)

(Prerequisite: FRAN 4008) Historical-literary presentation of Quebec from the mid-19th century to the present. Readings and sociological and structural analysis of several outstanding novels.

FRAN 4140: French-speaking African Literature (3 crs.)

(Prerequisite: FRAN 4008) Introduction to the Study of Literary Production in Francophone Africa y the cultural contexts that shape them. We will work on outstanding literary and cultural aspects of

works that belong to the oral tradition and written heritage of countries twinned by a literary language, French, a legacy of a common colonial past.

FRAN 4146: The French Detective Novel (3 crs.)

(Prerequisite: FRAN 4008) Introduction to the French detective novel, influenced by the English detective novel and the American "roman noir". This course offers an overview of the forms of the popular detective novel.

FRAN 4215: French Literature of the Enlightenment (3 crs.)

A study of the reformist ideas that spread universally in the eighteenth century based on the writings of the French philosophes, especially Voltaire, Diderot and J.J. Rousseau.

FRAN 4217: Women's Writing in French Literature (3 crs.)

(Prerequisite: 4008) A study of women's writing and the situation of women writers in French literature. Analysis of the strategies that women have had to resort to in order to enter the literary space from which they have traditionally been excluded. Examination of the way in which the selected women writers use conventionally established discursive codes and representations of the feminine, either to subordinate themselves to them or to subvert them.

FRAN 4795: The Terror in Modern French Literature (3 crs.)

(Prerequisite: 4008) The purpose of this course is to analyze the themes of revolution, terror, and terrorism in modern French literature. The aim is to demonstrate that these current issues are not only found in representative works of literature since the French Revolution, but also constitute privileged metaphors for important authors who belong to great literary movements such as romanticism, surrealism and existentialism. The course proposes as a secondary objective the current debate on the significance of terrorism in the present. Two novels, a play, a film, several poems and excerpts from essays will be studied.

FRAN 4010: The French Autobiography (3 crs.)

(Prerequisite: FRAN 4008) This course is aimed at undergraduate students of French who want to practice creative writing in the language. Through lectures and discussion of certain works, the origin of the genre of autobiography is studied from Les Confessions de Saint Augustin to authors of the twentieth century and the characteristics of the autobiographical genres, memoirs, diaries, self-portraits and autobiographical novels are analyzed. It focuses on the relationship between the author, the narrator, and the character of the work and the autobiographical pact with the reader to teach students how to write their own biography.

FRAN 4157: Literature and Decolonization in the Francophone Caribbean. (3 crs.)

(Prerequisite: FRAN 4008) Analysis of literary texts that address the theme of colonialism from a decolonizing perspective in the field of French-speaking Caribbean literature.

FRAN 4028: Introduction to French Linguistics (3 crs.)

(Prerequisite: FRAN 4008) Study of basic concepts, constituent elements and levels of analysis of French linguistics (phonetics, phonology, morphology, syntax, semantics), with a brief introduction to one or two areas of historical or applied linguistics.

FRAN 4130: Sociolinguistics of French (3 crs.)

(Prerequisite: FRAN 4008) Study of basic concepts of sociolinguistics and their application to regional and national varieties of contemporary French, such as

social and geographical variation of language, bilingualism and multilingualism, diglossia and language policy.

FRAN 4009: Independent study in French (3 crs.)

(Prerequisite: FRAN 4008) Directed research in the area of French around themes, theoretical approaches or problems of the discipline, of individual interest. The course may be taken a maximum of two times (6 credits) under different topics. Authorization from the professor, academic advisor, and department chair is required. Submit to the director, the semester prior to taking the course, a proposal of the topic to be developed following the procedure established by the department.

FRAN 4037: European Union: Languages and Cultural Identity (3 crs.)

(Prerequisite: FRAN 3035) This course will study the elements that contribute to the formation of a European identity: the EU institutions, enlargement policy, EU languages, language policy on foreign languages and regional languages

and minority, the adoption of the euro and the Constitution, the question of the European state. This course is aimed at undergraduate students of foreign languages who want to practice the French language in the socio-cultural context of the European Union.

FRAN 4045: Introduction to French Stylistics (3 crs.)

(Prerequisite: FRAN 4008) Study of the stylistic resources of French with representative texts of literary genres. The course will be taught as a theoretical-practical course in which various aspects of writing will be discussed: normative, formal and stylistic.

FRAN 4046: Pragmatic Analysis of the French Press (3 crs.)

(Prerequisite: FRAN 4008) Advanced French course, focused on the development of analytical skills of the French and French-speaking press. Oral and written expression skills will also be worked on, as well as the acquisition of French vocabulary, and contact with French culture through authentic documents will be privileged. Texts taken from various newspapers and magazines such as *Le Monde*, *Le Point*, *Le Figaro*, *Libération*, *L'Humanité*, *L'Express*, among others, will be worked on.

FRAN 4095: Basics of Translation (3 crs.)

(Prerequisite: FRAN 4008) This course allows students to learn the basic notions that are essential in the discipline of translation, based on definitions, theoretical texts on translation and the study of the main types of translation (technical, editorial, legal, literary, inverse, interpreting, etc.) and their implications. Through textual pragmatics exercises in French, they will acquire a better command of the source language (French) and will know the translation process. Different types of texts and their particularities will be presented, as well as some essential elements of discourse written in French and its usefulness for translation (e.g. plan, unité de sens), and the main difficulties of translating from French to Spanish will be mentioned. The course will be conducted in French.

FRAN 4235: Language and Civilization in French Cinema (3 crs.)

(Prerequisite: FRAN 4008) Study of the French language and civilization through its cinematographic art.

FRAN 4216: Advanced Study in French (3 crs.)

(Prerequisite: FRAN 4008) Development of communication skills at an advanced level. Course content may vary from semester to semester.

FRAN 4225: Business French (3 crs.)

(Prerequisite: FRAN 4008) Advanced course aimed at the knowledge of the French business world and the acquisition of the terminology, rhetoric and protocols used in the fundamental transactions of business in French. This is an introduction to business in France. Aspects related to the professional world are presented, such as the search for a job, the creation of a company and the labor organization of contemporary French society.

FRAN 4997: Didactics of French as a Foreign Language (3 crs.)

(Prerequisite: FRAN 4008) Advanced French course in which different theoretical aspects of the teaching of French as a foreign language (FLE) are discussed (such as teaching methods in FLE, influences of related disciplines (pedagogy, linguistics, etc.), class materials and practices, assessment strategies, etc.). It aims to provide students with the basic skills to gather, create and/or adapt appropriate materials to conceive one or more activities to be used in French courses at the basic level, as well as to make use of technologies in language courses.

FRAN 4998: Current Issues in Francophone Studies (1 to 3 crs.)

(Co-requisite: FRAN 4008) Theoretical and practical course of credit and variable topics on various aspects of the languages, literatures and cultures of France and the French-speaking world. The course will cover theoretical and practical aspects of current literary, linguistic or cultural research in French. The student will be able to repeat the course with different topics up to a maximum of 6 credits.

GRIE 3015: Classical Greek as a Research Tool I (3 crs.)

Introductory course aimed at students with interests or research projects that require basic knowledge of Classical Greek. Fundamental notions such as the Greek alphabet and its relationship with the Latin alphabet, grammar, nominal morphology and syntax of the target language will be studied, and the study of verbal morphology will begin. Emphasis will be placed on the acquisition of the vocabulary necessary to read basic texts and the use of Greek reference tools.

GRIE 3016: Classical Greek as a Research Tool II (3 crs.)

Introductory course aimed at students with interests or research projects that require basic knowledge of Classical Greek. Fundamental notions such as the Greek alphabet and its relationship with the Latin alphabet, grammar, nominal morphology and syntax of the target language will be studied, and the study of verbal morphology will begin. Emphasis will be placed on the acquisition of the vocabulary necessary to read basic texts and the use of Greek reference tools.

GRIE 4005: Independent Study in Classical Greek (3 crs.)

(Prerequisites: GRIE 3001-3002 or equivalent, authorization from the professor, the academic advisor and the director of the department and submit to the director, the semester prior to taking the course, a proposal of the topic to be developed following the procedure established by the department) Directed research in the area of classical Greek on topics, authors, or texts of the ancient Greek period of

individual interest. The course can be taken a maximum of three times (9 credits) under different topics.

HART 3005: ART FROM ANCIENT AMERICAN CULTURES

Three credits. Three hours of lectures a week. Face-to-face, hybrid and online.

In this course, the main manifestations of American high cultures will be analyzed from an artistic point of view. Although special emphasis will be placed on the arts of the Teotihuacan, Maya, Aztec cultures of Mesoamerica, and the Mochica and Inca cultures of the Andean area, a detailed study will also be made of the other cultures that decisively influenced the artistic development of both areas prior to European cultural domination.

HART 3118: ART IN PUERTO RICO

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Chronological study of the diverse Puerto Rican artistic expressions from the Pre-Hispanic Era to the end of the twentieth century.

HART 3136: LATIN AMERICAN ART OF THE 20TH CENTURY

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

A study of Latin American art from the twentieth century to the present, which examines the main manifestations of the visual arts in the continent, taking into account aspects such as the economic, social and political context in which it developed and the relationship between Latin American art and the European avant-garde.

HART 3191: WESTERN ART I

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Panoramic study of the main artistic manifestations in Europe and the Near East during Prehistory, Antiquity, the Middle Ages and the artistic changes prior to the Renaissance.

HART 3192: WESTERN ART II

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online. Overview of the history of Western art from the Renaissance to the present day.

HART 3199: INTRODUCTION TO THE VISUAL ARTS

Three credits. Three hours of lecture per week per week. Face-to-face, hybrid and online.

Introduction to formal language, the main media and materials of art, the creative capacity of the artist, the concepts of tradition and modernity, as well as quality criteria in the visual arts.

HART 3205: SPANISH PAINTING

Three credits. Three hours of lecture a week.

The development of Spanish painting from the sixteenth century to the present day is seen through the ideas and theories of the treatise artists.

HART 3208: ISLAMIC ART

Three credits. Three hours of lecture a week.

Historical account of Islamic art in Asia (Near and Middle East), Africa and the Iberian Peninsula from its origins (7th century) to the period of the Great Mongols in the 19th century.

HART 3209: THE MASTERPIECE: CREATION, BECOMING, AND THE SYMBOLIC VALUE OF ART

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

Study of several great works of art to investigate what elements have contributed to their appreciation today as "masterpieces". This course is aimed at all students on campus. Its purpose is to offer an analytical view of topics related to the history of art, history of cinema, history of architecture, literature, history and aesthetics. The course will be developed through illustrated lectures using the appropriate material and technology for a greater understanding of the topics to be studied.

HART 3215: MEDIEVAL ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Study of the fundamental periods of art in the Middle Ages from the 4th to the 13th century in Europe.

HART 3217: ICONOGRAPHY OF CHRISTIAN ART: 4th to 13TH CENTURIES

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Study of the origins of Christian iconography and its development, from the Early Christian to the Gothic. Also observing the future impact of these images.

HART 3219: ANCIENT NEAR EASTERN ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Study of the main artistic manifestations of the Near East, with special emphasis on Mesopotamian cultures from their beginnings in Sumer to the decline of the Persian Empire.

HART 3221: ITALIAN RENAISSANCE ART I: 14TH-15TH CENTURIES

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Chronological and thematic study of the most representative personalities and artistic works of Renaissance art in Italy from its emergence in the fourteenth century to the final years of the century XV.

HART 3222: ITALIAN RENAISSANCE ART II: 16TH CENTURY

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Chronological and thematic study of the most representative personalities and artistic works of Renaissance art in Italy throughout the sixteenth century, as well as the period known as Mannerism.

HART 3225: HISPANO-ARABIC

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Development of Islamic forms in Spain and North Africa and their manifestation in Latin America. Mudejar is also analysed as an artistic manifestation of the coexistence of Christians and Muslims in the Iberian Peninsula and its survival over the centuries.

HART 3228: EGYPTIAN ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Panoramic study of the main Egyptian artistic manifestations from their origins in the Predynastic period, their evolution until the end of the fourth century B.C. and their fusion with Hellenistic styles throughout the Ptolemaic period.

HART 3229: BBYZANTINE ART

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

Study of the artistic periods that define Byzantine art since the 6th century including the regions of Greece, Armenia, Georgia, Russia and Italy. This course is aimed particularly at students of art history, but also at all students of the campus, in order to expand their knowledge for the performance of research in the field of arts. The course will be developed through illustrated lectures using the appropriate material and technology for a greater understanding of the topics to be studied.

HART 3236: MODERN ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Chronological and thematic study of the most representative movements, personalities and works of modern art, whose development spans from the French Revolution to the end of the Second World War.

HART 3237: CONTEMPORARY ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Multidisciplinary study of architecture, visual arts and artistic expressions since the Second World War.

HART 3245: HISTORY OF AMERICAN ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Study of art in the United States from 1945 to the present. Study of the art spheres of painting, sculpture, architecture, photography, new media and others, mainly through texts, documents and debates relevant to the practice and theory of contemporary art in that country.

HART 3256: THEORY OF ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Study of several important aspects of art theory, including; the fundamentals of the discipline of Art History, its object of study, what are works of art and the languages of art, highlighting the texts and documents of art theory.

HART 3257: HISTORY, THEORY OF ARTISTIC PRACTICE

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

This course has as its specificity and thematic sequence the study and conceptual framework of the teaching of artists in different educational contexts. Its purpose is to instruct and train students in the subject and is aimed mainly, but not excluding others, at students of art history and visual arts. The study of the topic will be carried out through discussion, readings and lectures.

HART 3275: EUROPEAN RENAISSANCE ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Study of architecture, sculpture and painting in Europe and its main manifestations and artists between the 15th and 16th centuries.

HART 3277: PRE-HISPANIC ART OF THE ANTILLES

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Chronological study of the most important artistic manifestations developed in the Antilles during the pre-Hispanic period.

HART 3305: CHINESE ART HISTORY

Three credits. Three hours of lecture a week.

The arts and archaeology of China from the origins of the Chalcolithic period to the 20th century will be studied, including the artistic currents of neighboring peoples, influenced mostly by Indian Buddhism.

HART 3306: JAPANESE ART HISTORY

Three credits. Three hours of lecture a week.

The arts of Japan will be studied starting from the influences of Korean art, emphasizing the religions of Japan (Shinto and Buddhism), in the Meiji period, and in Ukiyo-e painting, to conclude with the art of the peoples of Southeast Asia.

HART 3716: HISTORY OF PHOTOGRAPHY

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Historical tour of photography as an artistic medium, from its beginnings to the present day, analysing its techniques, its language, its main movements and artists, according to the methodology of the discipline.

HART 3905: HISTORY OF PERFORMANCE

Three credits. Three hours of lecture a week.

Theoretical-historical study of performance art, specifically, its development through the twentieth century and its role in the most significant artistic movements of modern Western art and its international diffusion.

HART 3915: AFRICAN ART

Three credits. Three hours of lecture a week.

Panoramic study of African art, highlighting the spheres of painting, sculpture, architecture, goldsmithing, basketry, ceramics and clothing. This study will include examples of black African art from prehistory to the present.

HART 3920: ART AND GENDER

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Comparative study of the relationships that exist between gender, class, race and representation within a historical-cultural context. It will explore how women represent themselves and how they have been represented through the discourse of art.

HART 3925: PUERTO RICAN ARTIST'S NATIONAL IMAGINARY IN NEW YORK

Three credits. Three hours of lecture a week.

Comparative study and analysis of the work and experience of Puerto Rican visual artists in New York, with emphasis on those born and/or raised in that city. Exploration from the otherness, through plastic and digital images, of how the Puerto Rican artist who Emigra, remembers and reconstructs memory abroad, creating a new national imaginary.

HART 3935: METHODOLOGY OF ART HISTORY

Three credits. Three hours of lecture a week.
Study of treatments or methods in the history of art.

HART 4001: DEBATES IN CONTEMPORARY ART I

Three credits. Three hours of lecture a week.
The study of the most important theoretical debates that have guided the practice of art from modernity to the present.

HART 4002: DEBATES IN CONTEMPORARY ART II

Three credits. Three hours of lecture a week.
Study of the most important debates related to avant-garde theory and thought from modernity to the present.

HART 4003: DEBATES IN CONTEMPORARY ART III

Three credits. Three hours of lecture a week.
Study of the most important debates on the relationship between art and the market.

HART 4005: THE ARTISTIC AVANT-GARDE AND AVANT-GARDE CINEMA

Three credits. Three hours of lecture a week.
Study of the artistic avant-gardes of the early twentieth century and their exploration of the cinematographic medium from a comparative point of view, presenting both static and filmic work. Analysis of the theories of cinema as a means of mass diffusion and how they interact with the aesthetic postulates of the avant-garde.

HART 4015: ART AND LAW

Three credits. Three hours of lecture a week.
Study of the role of law and the limits of behavior imposed by the State on the figure of the "artist" and his work, from the end of the 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 controversies that the History of Art has faced around issues such as copyright, moral and patrimonial rights of artists, freedom of expression, and the relationship of art with various structures of the State. museums and the art market.

HART 4045: HISTORY OF CERAMICS IN PUERTO RICO

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Chronological study of the origins and development of ceramics in Puerto Rico from pre-Hispanic times to the present day, through its most relevant works and authors.

HART 4095: HISTORY OF ENGRAVING

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
History of the art of engraving from the fifteenth to the present day, and its role in the dissemination of engraving visual of ideas in all fields of knowledge.

HART 4111: SPANISH ART

Three credits. Three hours of lecture a week.
Study of art in the Iberian Peninsula from the Middle Ages to the Renaissance.

HART 4112: SPANISH ART II

Three credits. Three hours of lecture a week.
Study of art in the Iberian Peninsula from the Baroque to the present.

HART 4115: GREEK ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Study of the main artistic manifestations of ancient Greece, taking into account the pre-Hellenic origins, the development of Hellenic art in the Mediterranean during its archaic and classical phases, and its changes related to the Hellenistic period.

HART 4116: ROMAN ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Study of the main manifestations of the Roman visual arts throughout its history, from its origins in the Republican period to its crisis during Late Antiquity. The course will address the influence of Etruscan and Greek art on the consolidation of the Roman visual system.

HART 4118: EUROPEAN BAROQUE ART

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Critical study of the main concepts, artists and works of the European Baroque, a style that developed from the last decade of the sixteenth century to the middle of the eighteenth century.

HART 4119: ART CRITICISM

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
The Art Criticism course aims to help the students of the Program understand the meaning and importance of art criticism today, which for many will be their professional destiny in the future, and to know and use the most common tools and methodologies in the work of the art critic.

HART 4120: THE SHARED BODY: ART HISTORY AND MEDICINE

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.
Variable topic course eligible for the minor concentration in medical humanities and health that, from an interdisciplinary perspective, explores the relationships between art and medicine. The course establishes content that includes a focus on Puerto Rico, the Caribbean, and other cultures around the world. Questions such as the intersection between science and imagination, empirical data and interpretation, and medicine and society will be addressed, in order to develop therapeutic or political historical visions of the body and its relationship to both medicine and art history. The course can be repeated up to a maximum of 6 credits with different topics of study.

HART 4121: THE ART MARKET

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Study of the art market in the Western world from its emergence to the present day. This elective course will analyze how the emergence of the graphic arts and its development in the sixteenth century began a process of liberation of creative labor from the forces that inhabit it: 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 Masters market. It will study the emergence of auction houses in the eighteenth century, the role of institutional spaces, such as biennials, in

fostering a sense of contemporary art, and the phenomenon of the late twentieth century of the contemporary art market as an instrument of investment and financial speculation.

HART 4129: ART IN PUERTO RICO: 1945 TO 1975

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Introduction to Puerto Rican art created in various media between 1945 and 1975.

HART 4137: COLONIAL PAINTING IN LATIN AMERICA

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Regional and thematic study of the development of painting in Latin America during the Spanish colonial period.

HART 4138: ART IN PUERTO RICO: 1976 TO PRESENT

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online. Introduction to Puerto Rican art created in various media between 1976 and the present.

HART 4205: CONTEMPORARY ARCHITECTURE

Three credits. Three hours of lecture a week.
Descriptive and critical study of the architecture of Europe and America from the mid-nineteenth century to the present.

HART 4214: HISTORY OF ARCHITECTURE IN PUERTO RICO

Three credits. Three hours of lecture a week.
History of Architecture in Puerto Rico is an overview course of architectural developments in Puerto Rico from pre-Columbian times to the present day. The class offers the student knowledge about the urban development of the island's cities and towns, about the transformations and trends in architecture, as well as the historical development of the profession of architecture in Puerto Rico. The course draws on primary sources in the archives and libraries, and secondary sources, as listed in the bibliography.

HART 4215: ART HISTORY STUDY TOUR

Three credits. Three hours of lecture a week.
Study trip aimed at students of Art History courses, although not exclusive to other students of the Campus, in which works of art previously studied in the classroom will be studied *in situ*, and whose itinerary and appreciation will be directed by a professor of the program. This is a variable destination course.

HART 4216: HISTORY AND THEORY OF ARCHITECTURE IN LATIN AMERICA AND THE CARIBBEAN

Three credits. Three hours of lecture a week.
The *History and Theory of Architecture in Latin America and the Caribbean* course is a panoramic course of the architecture and development of Latin American cities from pre-Columbian times to the present day. The course, which is chronological, uses the geographies of the Latin American territory and its history— the Caribbean, Mexico, and Central America, the Andean region, Brazil, and the Southern Cone— as a backdrop to understand the architectural and urban production of each region.

HART 4217: THEORY AND HISTORY OF ARCHITECTURAL HERITAGE CONSERVATION AND RESTORATION

Three credits. Three hours of lecture a week.

Study of the theoretical and historical components that have marked the 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 the international organizations that have drafted documents for its protection. In addition, it delves into the history of architectural restoration up to the present day, paying special attention to the Puerto Rican context, through the corresponding legislation and the public institutions in charge of its management and conservation.

HART 4218: PATRONAGE AND COLLECTING

Three credits. Three hours of lecture a week.

Study of patronage and art collecting, with a historical perspective from Antiquity to the present day and with emphasis on the Western world. The course analyzes the relevance of patrons and collectors in the production, circulation of works of art, and in the determination of taste in each historical moment. It will also study the most representative professional relationships between artists, clients and art promoters and their impact on the development of art history.

HART 4227: MEDIEVAL ILLUMINATED MANUSCRIPTS

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Study of illuminated manuscripts in the Middle Ages with emphasis on their techniques, their styles, and the function of the book/codex in the Middle Ages.

HART 4241: ART HISTORY RESEARCH I

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.

Principles of research in the discipline of Art History, its techniques, methods and processes.

HART 4242: RESEARCH IN ART HISTORY II

Three credits. Three hours of lecture a week. Presence, hybrid and online.

Development and practice of research in the History of Art, from its initial stages to the writing, presentation and publication of its results.

HART 4257: ART OF INDIA I

Three credits. Three hours of lecture a week.

The artistic expressions of the peoples of India and their literary correlation from their origins to the Gupta period.

HART 4258: ART OF INDIA II

Three credits. Three hours of lecture a week.

The artistic expressions of the peoples of India and their literary correlation from the Gupta period to the present.

HART 4268: ART HISTORY AND THEORY FROM 1968 TO PRESENT

Three credits. Three hours of lecture a week.

Comprehensive study of architecture and visual arts from May 1968 to the present. The arts are studied from a theoretical, social and political perspective.

HART 4281: HISPANIC AMERICAN ART I

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
The study of art in Latin America from the period of the Conquest to the beginning of the eighteenth century, which includes the analysis of manifestations such as architecture, painting, sculpture and graphics, as well as traditional indigenous media.

HART 4282: HISPANIC AMERICAN ART II

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Regional and thematic study of Latin American Art developed between the eighteenth and twentieth centuries. It counts as an elective in the baccalaureate of History of the Art of Latin America and the Caribbean.

HART 4355: HISTORY OF PHOTOGRAPHY IN LATIN AMERICA

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Historical tour of photography as an artistic medium, from the beginnings of its development in Latin America to the present day. The course proposes an analysis of its main movements and artists, their most relevant contributions, the languages and themes that identify them, and the open debates about their heterogeneous reality.

HART 4905: INTERNSHIP IN MUSEUMS AND ART INSTITUTIONS

Three credits. Three hours of lecture a week.
Aimed at fostering learning through the experience of students with a concentration in Art History. A professor of the Art History Program presents a theoretical introduction to the world of museums and makes arrangements to provide educational-professional experiences or internships for enrolled students. The internship areas are: management, fundraising, education program, registry, curatorship, design and assembly, conservation. The institutions chosen to participate in the course may vary by semester. The student selects the institution and the area in which the educational experience will be carried out. The purpose is to have an immersive experience in the chosen field.

HART 4906: POLITICAL ART IN THE 20TH CENTURY

Three credits. Three hours of lecture a week.
Study of the theory and practice of political art throughout the twentieth century. The first part examines political art movements of the first half of the 20th century (Russia, revolutionary, pre-Nazi Germany), as well as their most significant theorists in Russia, Germany, China, and Latin America. The second part examines the impact of these theories on post-war experimental art, both in the visual arts and in film, music and theatre. Finally, the problems of political art in Puerto Rico during the last four decades are studied.

HART 4999: INDEPENDENT STUDY

Two to Four credits. Two to four hours per week.
Independent study conducted under the supervision of a teacher specialized in the student's area of interest.

HART 5006: INTRODUCTION TO THE OPERATIONAL PRINCIPLES OF MUSEUMS AND GALLERIES

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online.
Introduction to the management and operation practices of museums and art galleries. It includes administrative fundamentals and management of art collections.

HART 5007: OPERATIONAL PRACTICES OF MUSEUMS AND GALLERIES

Three credits. Three hours of lecture a week. Face-to-face, hybrid and online. Practical application of theoretical knowledge on operational principles of museums and galleries. Development of technical skills necessary for the handling of works of art in museums and galleries.

HIST 3005 - Pre-Hispanic History of Puerto Rico and the Antilles

Three credits. Three hours of lecture a week. Panorama of human development on the island of Puerto Rico and the Antilles in the pre-literary period. Description of the archaeologically identified stages. Examination of the relevant written sources during the Spanish conquest and discussion of the most outstanding socio-cultural features of the insular Taino period.

HIST 3006 - Introduction to Puerto Rican Historiography

Three credits. Three hours of lecture a week. Analysis of the most important works of Puerto Rican historiography from the sixteenth century to the present, placing it in the context of Puerto Rican history and in the historiographical currents of each era.

HIST 3097 - Military History of Puerto Rico

Three credits. Three hours of lecture a week. Examination of military affairs and events of major importance in the history of Puerto Rico, with particular attention to the role they have played in the evolution of Puerto Rican society, as well as their interrelation with the prevailing situation in both the Caribbean and the metropolitan country.

HIST 3101 - History of Mexico I

Three credits. Three hours of lecture a week. The pre-Hispanic cultures and civilizations of Mesoamerica are analyzed to understand the indigenous roots of the Mexican people. The process of conquest and colonial development are studied in order to understand the socio-political formation of the country. The course concludes with the events and debates that spawned the movement towards independence.

HIST 3102 - History of Mexico II

Three credits. Three hours of lecture a week. The national period of the United States of Mexico is analyzed from independence (1810-1821) to the first years of the 21st century. It studies the internal wars and wars with the United States, the French invasion, the government of Porfirio Díaz, the Mexican Revolution and its constitution of 1917. The formation of the Institutional Revolutionary Party, its fall in 2000, the free trade agreement, and the effects of neoliberalism and globalization are discussed.

HIST 3105 - History of Central America

Three credits. Three hours of lecture a week. Overview of the history of the Central American region. Study of the main economic, political and social events of colonization up to the present day.

HIST 3111 - History of the United States

Three credits. Three lecture hours a week A census of the history of the United States from the beginning 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 culminated in the American Revolution, the founding of the republic, the rapid growth of the nineteenth century, and the events culminating in the Civil War in 1861. (c) face-to-face, hybrid and online course.

HIST 3112 - American History II

Three credits. Three hours of lecture a week The Census of U.S. History from the Civil War to the Present. The emphasis will be placed on the Industrial Revolution of the 19th and 20th centuries, the problems this revolution caused to Americans, and the outcome of social reform programs. The course will include the census of diplomatic history in the 20th century. (c) face-to-face, hybrid and online course.

HIST 3135 - History of the U.S. Military Experience

Three credits. Three hours of lecture a week.
The course examines the American military experience by considering ideas and theories about the nature of military force in socio-political and diplomatic content.

HIST 3145: General History of Spain

Three credits. Three hours of lecture a week on the formative process of the Spanish people through their socio-economic, political and cultural development. Face-to-face, hybrid and online course.

HIST 3155: Europe in the Nineteenth Century

Three credits. Three hours of lecture per week In this course we discuss the impact of the French Revolution and the Industrial Revolution on nineteenth-century European history. In particular, we analyse social thought, economic life, diplomatic relations, the workers' movement, etc. The course does not cover the history of the whole of Europe, but aims to study similar problems present in the particular histories of European states. (c) face-to-face, hybrid and online course.

HIST 3165: Renaissance, Reformation, and Rise of the State

Three credits. Three hours of lecture per week The Renaissance as the threshold of the modern world in its social, political, economic and cultural aspects. The religious crisis that began in the sixteenth century until the Peace of Westphalia and from there, 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 up to the eighteenth century. (c) face-to-face, hybrid and online course.

HIST 3185 - The Medieval World

Three credits. Three hours of lecture a 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. Apogee of medieval culture. Problems of the Late Middle Ages.

HIST 3190 - Origins of Human Society

Three credits. Three hours of lecture a week.

Reflection on the origins of our species, and that of human society, from the perspective of the history of humanity, and as a total process endowed with unity. Study of the nature of the stages, both pre-agricultural ("Palaeolithic" and "Mesolithic") and agricultural ("Neolithic") and their development until the appearance of the first stages.

HIST 3195: The World of Antiquity

Three credits. 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 topics: Paleolithic savagery; Neolithic barbarism; the first Bronze Age civilizations in the alluvial valleys: Sumer, Egypt, and India; the expansion of the bronze civilization out of the alluvial valleys: Elam, Phoenicia, Crete, Mycenae. Asia Minor; and the major Iron Age civilizations: Greeks, Persians, Jews, Etruscans, Romans, and Carthaginians. (c) face-to-face, hybrid and online course.

HIST 3205: Problems of the Contemporary World

Three credits. The intention of the course is to discuss the major problems and conflicts of world history from the twentieth century to the present. During the course of the semester, the student will have the opportunity to discuss in depth the development of various historical processes of the time, with the main emphasis on the interpretation of the historical processes that inform our present. The course is not one of general study, but of theme and discussion and of readings and basic problems to understand the development of various contemporary global problems, such as: extreme violence, globalization, nationalism and the nation state, totalitarianism, wars of the twentieth and twenty-first centuries, race and ethnicity, gender and sexuality, consumer culture, media and images, The course has no specific geographical or cultural boundaries, and will attempt to provide an initial opportunity for students to understand a range of events and processes both individually and comparatively around the world. Face-to-face, hybrid and online course.

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HIST 3211: Hispanic American History

Three credits. Three hours of lecture per week The course is an approach to the Spanish-American colonial world, especially the areas conquered by Spain. An overview of the geographical and cultural environment of pre-Columbian America is given as the starting point of the course. The major emphasis is placed on the process of discovery, colonization, and conquest, followed by an analysis of colonial society and institutions up to the eighteenth century. (c) face-to-face, hybrid and online course.

HIST 3212: Hispanic American History II

Three credits. Three hours of lecture per week Overview of the historical development of Hispanic Americans from the early nineteenth century to the present. Special importance is attached to the study of the emancipatory stage in the first third of the last century, as well as to the comparative study of the historical process of the various independent states up to the present day, together with their economic and socio-cultural evolution and their relations with the outside world. (c) face-to-face, hybrid and online course.

HIST 3236 - Seminar on the History of Spain, Sixteenth to the Present Centuries

Three credits. Three hours of seminar per week.

Examination of topics on the modern and contemporary history of Spain from various perspectives. It can be repeated three times with different themes.

HIST 3241: History of Puerto Rico

Three credits. Three hours of lecture a week Analysis of the historical evolution of Puerto Rico from its beginnings to the present, without neglecting the pre-Columbian antecedents. It covers political, economic, social and cultural history. (c) face-to-face, hybrid and online course.

HIST 3242 History of Puerto Rico

Three credits. Three hours of lecture a week Analysis of the historical evolution of Puerto Rico from its beginnings to the present, without neglecting the pre-Columbian antecedents. It covers political, economic, social and cultural history. (c) face-to-face, hybrid and online course.

HIST 3245 - Compendium of Puerto Rican History

Three credits. Three hours of lecture a week.

It aims to provide the student with an overview of our history up to and including the 20th century. The course covers pre-Columbian cultures and analysis of the Spanish period in the areas of politics, population, military aspects and economics, from its beginnings to the present.

HIST 3255– Topics in Native American History I

Three credits. Three hours of lecture a week. The student can take this course twice with different topics.

Discussion of various topics and reflections on the history of the indigenous societies of the Americas, from their origins to the present day. Emphasis on the conceptualization of these societies as an essential, active and sometimes determining part of our history of yesterday and today.

HIST 3256 - Topics in Indigenous History of the Americas II

Three credits. Three hours of lecture a week. The student can take this course twice with different topics.

Discussion of various topics and reflections on the history of the indigenous societies of the Americas, from their origins to the present day. Emphasis on the conceptualization of these societies as an essential, active and sometimes determining part of our history of yesterday and today.

HIST 3265: The Arab World and Its Culture

Three credits. Given the political-economic importance of Arab countries in the past and present, this course presents a possible characterization of Islam and a panoramic view of the origin and historical-cultural development of Arabic-speaking peoples, their relations with the Western world, and their relevance in the contemporary world. Face-to-face, hybrid and online course.

HIST 3305 - History of Science and Technology

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

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 relationship with historiography by the construction of categories such as identity, race, nation, and gender.

HIST 4006: America's Contemporary Problems

Three credits. Three lecture hours per week Elective lecture and discussion course to analyze contemporary U.S. history from 1945 to the present. It includes topics such as the Cold War, civil rights, feminism, the rise of the New Left, big society programs, the oil crisis of the 1970s and its impact on the U.S. economy, the crisis of the presidency under Nixon, Ford, and Carter, the conservatism of Ronald Reagan's presidency, the collapse of the Cold War, the Persian Gulf crisis, the 2000 election process and the aftermath of the terrorist attacks of 11 September 2001. Face-to-face, hybrid course
y online.

HIST 4007 - Imaginaries of the Atlantic Revolution (1765-1830)

Three credits. Three hours of seminar per week.

In this course, ideologies, slogans, symbols, and emblems are studied comparatively and the representations of the revolution of the thirteen North American colonies, the French Revolution, the Haitian Revolution, the European revolutions against French rule (Italy, Prussia, Spain, among others), and the Spanish-American revolutions.

HIST 4008: History and Space

Three credits. three hours of discussion per week Study of the various approaches recently developed by historians, anthropologists, geographers and planners to study space as a central coordinate in the study of society, culture and identity in various parts of the world. The course is aimed at the student not only being able to understand the theories and the use of space as a special coordinate for the study of the past and society, but also to be able to develop the topic in relation to the geographical area and time of their preferred study. Special attention will be given to the role of
and the use of space in the process of constructing collective memory, race, nation, culture, and politics. The course is designed for students of history of the Americas, history of Europe
y other departments. Face-to-face, hybrid and online course.

HIST 4009 - History and Anthropology

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

Study of the influence of anthropology on historiographic production. The course provides a space for discussion on the new type of theory and methodology that has been developed through conversations between the disciplines of history and anthropology, and what its future possibilities are for the development of projects by students. Particular attention will be paid to the study and discussion of several important examples of such historiographical work, and will include examples from various geographical areas. The course is geared toward students of History of the Americas, History of Europe, and Anthropology.

HIST 4015: Literature as a Source of Historical Research

Three credits. three hours of lecture per week Seminar to develop the ability to use literary sources for historical research and to assimilate from literary research the techniques of contemporary historical methodology. face-to-face, hybrid and online course.

HIST 4016 - German Nationalism, Nation, and Nation State (19th and 20th Centuries)

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Study of the currents of political, social and cultural thought that influenced and led to the consolidation of the German territories into political entities according to the nineteenth-century model of the national state.

HIST 4017 - Reading Seminar: Caribbean History Topics

Three credits. Three hours of seminar per week.

Seminar of readings and study of specific topics related to the history of the Caribbean. It covers particular aspects of the political, cultural and socio-economic development of various countries in the region. In some cases, comparative topics can be dealt with that relate aspects of the historical development of the Caribbean. Students will be able to take the course a maximum of three times without repeating the topics.

HIST 4025: Lecture Seminar: Topics in the History of Europe**THEME: EUROPEAN CINEMA BETWEEN THE WARS (1918-1945)**

Three credits. Three hours of seminar per week Study of various topics in the history of Europe, including religion, family, culture, industrialization, wars, political regimes, and the consolidation of the European community. The student may repeat the course a maximum of three times as long as the topic is different. Face-to-face hybrid and online course.

HIST 4026 - Seminar on Readings in the History of the Americas

Three to nine credits. Three hours of seminar per week.

This seminar includes the discussion and analysis of a series of readings on a topic of current historiographical interest in the field of history of the Americas. It discusses and analyzes the scope and limits of the historiographical approaches examined, as well as the ways in which these new historiographical approaches have transformed the dominant understandings of the subject under study. Finally, it examines the possible research topics that emerge from these discussions. The specific thematic focus of the course will change each semester. The course can be taken up to three times with different topics.

HIST 4027 - Cultural History Reading Seminar

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 spearhead the course explores and distinguishes the use of particular concepts and strategies that have been used by historians and other scholars to develop different narratives of cultural history. Among them, it examines the dispute, appropriation and negotiation with respect to different representations and the practices linked to them. It includes topics such as: gender, the 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 course can be taken up to three times with different topics.

HIST 4028: Pacific Ocean Reading Seminar TOPIC: The Comparative Study of the European Impact on Pacific Ocean Native Cultures

Three credits. Three hours of seminar per week. Prerequisite: Be an undergraduate student. Comparative study on the peoples of the Pacific Ocean. Topics such as geography, archaeology, ethnology, customs, religion, economy, exploration, colonization, military conflicts, post-war, national movements, nuclear testing and ecology, among others, may be discussed. The emphasis may vary, according to the selection of the archipelagos, their islands and the issues to be highlighted. The course can be taken up to three times with different topics. Hybrid and online face-to-face course.

HIST 4046 - History and Epic Poetry

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

Comparative study of the stages in the formation of social values in the West in the light of great epic poems.

HIST 4057 - Seminar Readings: Topics in U.S. History

Three credits. Three hours of seminar per week.

Seminar of readings on various topics of U.S. history From aboriginal North America to the present day, including: colonization, revolution of independence, territorial expansion, slavery and civil war, immigration, world wars, industrialism and urbanization, ethnic minorities, political parties, and transformations of the federal state. The student will be able to repeat the course a maximum of three times with different topics.

HIST 4080 - Introduction to Family History in Colonial Latin America

Three credits. Three hours of lecture a week.

Overview of the history of the family during the colonial period and the mentality of that time in Latin America. Brief and concise presentation of the different aspects that characterized this family group, with special emphasis on Mexico.

HIST 4085 - History of Contemporary Latin America 1850 to the Present

Three credits. Three hours of lecture a week. Prerequisite: HIST 3212.

Analysis of the historical roots of contemporary problems in Latin America, including; miscegenation, economic underdevelopment, the political condition, the position of the American countries in the system of international politics, and the development of the consciousness of the being of America. The course is based on the examination and analysis of contemporary texts on each of the issues mentioned.

HIST 4095 - History of the Caribbean

Three credits. Three hours of lecture a week.

Haiti's colonial training serves as an introduction to the course. The revolution and its aftermath are analysed in order to understand the socio-economic and political problems. The Dominican Republic is being studied in parallel. The second part is dedicated to Cuba. Particular attention is given to the sugar economy, the republic and the revolutionary process up to the present.

HIST 4097: History of Cuba

Three credits. three hours of lecture per week General examination of Cuban history from its origins to the present. (c) face-to-face, hybrid and online course.

HIST 4099 - Dominican Social History

Three credits. Three hours of lecture a week.

A global view of Dominican history. The process of economic, political and social development from colonization to the middle of the twentieth century is presented.

HIST 4105 - Cultural History of Mexico

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

A panoramic view of the development of Mexican national culture beginning with its pre-Hispanic roots, the creation of a regional consciousness in its three most dramatic manifestations; the struggle for independence, reform and revolution. The course is based on a detailed analysis of representative texts from each of the periods, culminating with an analysis of the theme of "the Mexican" and the contemporary thought of the country.

HIST 4115 - U.S. Colonial History (1607-1776)

Three credits. Three hours of lecture a week.

It covers the beginning and evolution of the thirteen colonies that eventually became the United States of America. Special emphasis on the factors that led to the confrontation with England and the declaration of independence.

HIST 4118 - History of Commerce in the United States (1850-1990)

Three credits. Three hours of lecture a week.

Analysis of the historical-commercial and social process that has determined the development of the economic, military and political power of the United States between 1850-1990. A study of the development of trade and industry and its effects on the domestic and foreign policy of the United States.

HIST 4145: History of Japan

Three credits. To situate the student in the context of ancient and medieval Japan in order to make him understand, through the historical-socio-cultural and economic ideas that sustain them, modern and especially contemporary Japan, with its adjustment to the new changes, emphasizing the national and international position that its historical actuality demands. Face-to-face, hybrid and online course.

HIST 4155 - Problems of Contemporary Spain

Three 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 conflictive transition from a rural-agrarian society with a traditional structure to an industrial-urban society is analyzed. The analysis of the process is framed in the context of capitalist growth conditioned by external dependence. Particular emphasis is placed on the development of social movements and the awakening of nationalities.

HIST 4165 - History of Brazil

Three credits. Three hours of lecture a 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 America receive special attention.

HIST 4171 - History of Russia to the Eighteenth Century

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

Introductory course in Russia from the beginning to the eighteenth century. It includes the discussion of politics, economics, culture, and social issues. It is divided into the following stages: Pre-Kievan Russia, the Kievan state, the Mongol invasions, Muscovy, and imperial Russia up to Catherine the Great. Includes source analysis.

HIST 4172 - History of Russia since the 19th Century

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

Introductory course on the history of Russia from the reign of Alexander I to the present, from the political and economic point of view. It includes analysis of primary sources and readings by renowned researchers to discuss local affairs and international relations. The emphasis may be on the 19th or 20th century, according to the readings assigned.

HIST 4175 - Political and Economic History of Russia

Three credits. Three hours of lecture a week.

Discussion of the political and economic evolution of Russia from the Kiev period to the present. It will pay special attention to the role of the peasantry, the industrial revolution, Soviet institutions, and international relations.

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Hist 4176: Cultural History of Russia since the Nineteenth Century

Three credits. Three hours of lecture and discussion per week. Introductory course on the cultural history of Russia from the 19th century onwards. It is based on the analysis of the writings of Russian thinkers, both in literature and in political and economic theory, as well as on 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 policy regarding cultural manifestations. Face-to-face, hybrid and online course.

Hist 4177: History of Eastern Europe

Three credits. two hours of lecture and one hour of discussion per week. Prerequisites:

Permission from the Director.

The history of Eastern Europe from the beginning to the First World War is studied in a panoramic way, and then moves on to a more detailed study of the twentieth century. It includes analysis of Russia's relationship with Germany, Poland, the Czech Republic, Slovakia, Hungary, Bulgaria, Albania, Romania, the former Yugoslavia (Slovenia, Croatia, Bosnia, Serbia, Montenegro, Kosovo and Macedonia) and the Baltic republics (Estonia, Latvia and Lithuania). Face-to-face, hybrid and online course.

HIST 4185 - Asian Civilizations

Three credits. Three hours of lecture a week.

The course will cover the beginnings of the key centers of Asian civilization in Mesopotamia, India and China, as well as the historical development of the political-economic system and of social and religious institutions up to the seventeenth century. It will also deal with the extension of the aforementioned cultures to other parts of Asia, such as the Middle East and South-East Asia, Korea and Japan. Emphasis may be placed on a particular civilization to allow for the presentation of more specific topics.

HIST 4186 - Impact of Western Imperialism in Asia

Three credits. Three hours of lecture a week.

The impact of European commercial activities and political dominance on traditional Asian cultures from 1650 to the present. The rise of new elites and nationalist movements in China, Japan, India, and Southeast Asia.

HIST 4187 Contemporary Problems in Asia

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

The key problems that the new Asian nations have faced after World War II up to the present. The efforts of the nations of Asia to achieve economic development and political unification of their countries. The internal struggles to decide their orientation on the problems of political ideology and social change. Face-to-face, hybrid and online course.

HIST 4188 - History of Traditional Japan

Three credits. Three hours of lecture a week.

Introduction to the history of Japan from prehistoric times to the 19th century when modernization began.

HIST 4205 - Roman Empire and Christian Movements 1st-6th Centuries

Three credits. Three hours of lecture a week.

Interrelations between the Roman Empire and the Christian community, Greco-Roman culture and early Christianity.

HIST 4207 - History of Classical Greece

Three credits. Three hours of lecture a week.

An examination of the historical context of the flourishing of classical Greek culture.

HIST 4211 History of Africa I

Three credits. Three hours of discussion a week

General history of Africa from its origins to the end of the slave trade in 1870. (c) face-to-face, hybrid and online course

HIST 4212 History of Africa II

Three credits. Three hours of discussion a week

General History of Africa from the Colonial Partition of the Continent to the Post-Independence Period Today. Face-to-face, hybrid and online course

HIST 4225 - Theory of History

Three credits. Three hours of lecture a week.

The purpose of the course is to become aware of the task of the historian and the researcher; Above all, the most important aspects of historical analysis such as: causal relationships, laws in history and their predictive character, chronological history and explanatory history, etc. It also studies how the main modern historiographical schools have dealt with these theoretical problems. At the same time, with the intention of developing a theory about what is being researched and of knowing the usefulness of the discipline, the students carry out an original research of primary sources in the general archive of Puerto Rico and in the Puerto Rican collection.

HIST 4226 Methodology of Historical Research

Three credits. Three hours of lecture a week. Prerequisite: HIST 4225

The emphasis of the course is on the discussion of the methodology of the main auxiliary sciences of history: demography, statistics, prosopography, economics, etc. In addition, we study the different structures of a historical monograph and the mechanical aspects of it such as: bibliography, footnotes, citations, etc. As in the theory of history course, students do a primary source investigation. (c). Face-to-face, hybrid and online course.

HIST 4227 Research Seminar on the History of the Americas (THEME: History and Transculturation in Migratory Movements in Latin America and the Caribbean)

Three credits. Three hours of seminar per week.

The course studies the relationship between the epistemological foundations and the methodological postulates that guide the ways of making history within the specific field of history of the Americas. The scope and limits of the sources available for research within this field of study are discussed and analyzed, as well as the general challenges of the research. The student will elaborate the discussion of these issues in the context of a specific thematic focus that will change each semester. It requires the student to carry out a research paper related to the topic that guides the course that semester. It should be based on primary and secondary sources. The student will be able to repeat the course up to three times with different topics.

Theme: History and Transculturation in Migratory Movements in Latin America and the Caribbean. This seminar focuses on research, focused on the history and transculturation of migratory movements in Latin America and the Caribbean. It will study and analyze the main migratory movements to Latin America and the Caribbean during the 19th and 20th centuries. Face-to-face, online and hybrid course.

HIST 4240 - History of Public Health

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

It examines the historical development of public responsibility for the maintenance of sanitation, prevention, and disease management during the 18th and 21st centuries. Among the topics covered are the concepts and construction of health and disease; the role of disease in shaping public health; the emergence of a public health infrastructure; changes in the knowledge and practice of science; the impact of social, cultural and political interests on public health and criticism in the discipline itself. The course omits the detailed examination of healing in antiquity and the Middle Ages, although it makes references to them. A rather chronological thematic structure will be adopted in order to be able to make

comparisons across the centuries and between different parts of the world.

HIST 4245 - History of Puerto Rico, 20th Century to the Present

Three credits. Three hours of lecture a week. Prerequisite: HIST 3241-3242 or HIST 3245.

The course begins with the socio-economic situation of the island in 1899 and the formation of political parties and the workers' movement. The political evolution of the country is analyzed through the different governors and legislative majorities. Social, cultural, economic, and political changes throughout the 20th century to the present receive careful analysis.

HIST 4325 - Independent Study in History

Three credits. Three hours of independent study. Prerequisites: HIST 4225, HIST 4226. Authorization from the course professor, academic advisor and director of the history department. Co-requisites: Can be taken concurrently with any of the Level 4 courses.

Directed research in the area of history, for concentration students, on topics, theoretical approaches or specific problems of the discipline, of individual interest. The course may be taken a maximum of three (9) credits under different topics. An interdisciplinary perspective will be encouraged.

HIST 4346 Seminar of Readings on Nationality in Puerto Rico

Three credits. Three hours of seminar per week

Critical seminar of readings on the phenomena of ethnicity, nationality, nationalism, national identity and the relationship of these with variables, such as gender, race, sexuality, social class and sovereignty, applied to the historical case of Puerto Rico. Face-to-face, hybrid and online course.

HIST 4355 - Afro-Antillean Societies

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

Introduction to the origins and development of Afro-Antillean societies.

HIST 4381 - England: Society and Culture, Eleventh to Eighteenth Centuries

Three credits. Three hours of lecture a week.

The Norman Conquest and its impact; Anglo-French relations and their influence on English constitutional history; problems of medieval English society; the Tudor state and the religious problems of the sixteenth century; Elizabethan society; origins and development of the English Revolution; Hanoverian rule, the agricultural revolution of the eighteenth century; the first English empire and the impact of its dismantling; Beginnings of the English Industrial Revolution.

HIST 4391 - Puerto Rico History Reading Seminar I

Three credits. Three hours of lecture a week. It can be repeated up to a maximum of six credits.

Seminar of readings on the historical roots of certain aspects of the political, socioeconomic and cultural development of Puerto Rico. In some cases, comparative topics can be discussed that relate aspects of Puerto Rico's historical development with other Caribbean or Latin American societies. The student will be able to repeat the course a maximum of three times with different topics.

HIST 4392 - History of Puerto Rico II Seminar of Readings

Three credits. Three hours of lecture a week. It can be repeated up to a maximum of six credits.

Seminar of readings on the historical roots of certain aspects of the political, socioeconomic and cultural development of Puerto Rico. In some cases, comparative topics can be discussed that relate aspects of Puerto Rico's historical development with other Caribbean or Latin American societies.

HIST 4990 - Introduction to the Historical Study Tour

Three credits. Three hours of lecture a week. Prerequisite: Authorization from the teacher and/or the principal.

Course prior to the historical study trip in which the student will learn about the history and culture of the foreign countries to be visited.

HIST 4995 - Historical Study Tour

One to three credits. Three hours of discussion a week and visits to historical sites. Prerequisite: HIST4990 or permission of the teacher and/or principal.

Study trip to learn about the history and culture of foreign countries.

ENGLISH 3001 - English Literature to Neoclassicism

Three credits. Three hours of lecture a week.

Representative authors and movements of major importance from the beginnings of English literature to the middle of the eighteenth century. Face-to-face, hybrid and online course.

ENGLISH 3002 - English Literature from Romanticism to the Present

Three credits. Three hours of lecture a week.

Representative authors and trends of major importance in the development of English literature from the end of the eighteenth century to the present. Face-to-face, hybrid and online course.

ENGLISH 3013 - Fundamentals of English Grammar Level 3-I Students

Three credits. Three hours of discussion a week. Prerequisites: INGL 3004 or 3102 and have obtained level 3 in the placement test of the Department of English for the Humanities.

The first part of a 2-semester course on English grammar for students who have achieved level 3 in the placement test. In a communicative environment, they analyze the grammatical forms of natural language and put them into action in their own speech and writing. Explicit knowledge of grammatical forms and their functions will help them incorporate these structures into their own developing grammatical system, when they are psycholinguistically ready.

ENGLISH 3014 - Fundamentals of English Grammar Level 3-11 Students

Three credits. Three hours of discussion a week. Prerequisites: INGL 3003-3004 or 3101-3102, have obtained level 3 in the Humanities English Department placement test; and INGL 3013.

The second part of a 2-semester course on English grammar for students who have obtained level 3 in the placement test. In a communicative environment, they analyze the

grammatical forms of the natural language and put them into action in their own speech and writing. Explicit knowledge of grammatical forms and their functions will help them incorporate these structures into their own developing grammatical system, when they are psycholinguistically ready.

INGL 3016 - Communication in the Health Field

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

Prerequisites: Level four or higher on the English placement test.

Study of theory and research in human communication in the context of the health field, including: the interaction between beneficiaries and providers; communication in health care organizations; health care campaign; 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; images of health in the mass media; how gender, race, age, ethnicity, and language influence health communication; and the cultural meanings of health and disease. The nature of communication processes that influence and/or are influenced by health and health care contexts will be emphasized. Face-to-face, hybrid and online course.

INGL 3017 - 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 (CFF) literature, including language as a determinant of worldview (Whorfian theory), invented languages, and language as a literary tool in the science fiction/fantasy genre. Novels, short stories, television shows, and films will be used to explore some of the basic fundamentals of speculative literature and linguistics.

INGL 3031 - Developing the Functions of Oral English - First Level I

Three credits. Three hours of discussion and one hour of lab per week.

Prerequisites: INGL 3003-3004 or level one placement test.

Vocabulary, social formulas, pronunciation, and grammatical structures necessary to develop, within an interactive context, the linguistic functions of oral English at the basic level. Additional practice by attending the language lab.

INGL 3032 - Developing the Functions of Oral English - First Level II

Three credits. Three hours of discussion and one hour of lab per week.

Prerequisite: INGL 3031.

Vocabulary, social formulas, pronunciation, and grammatical structures necessary to develop, within an interactive context, the linguistic functions of oral English at a basic level. Additional practice by attending the language lab.

INGL 3036 - Literature and Creative Arts: A Cross-Cultural Perspective

Three credits. An hour and a half of lecture and an hour and a half of discussion per

week. Prerequisite: Level 4 or 5 on the English placement test, or take an advanced test in English (level 4 and 5) or 580 on the CEEB.

Interdisciplinary course examining essays, short stories, poetry, plays, novels, films and medical writings that deal, from various cultural perspectives, with the relationship between literature, the aching body, the social meanings of illness, and the healing arts.

INGL 3037 - The Role of the Literary Journal in Contemporary Literary Production.

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Interdisciplinary course that examines the role of the literary magazine in the production of contemporary literature. An overview of the history of the literary magazine in the 20th and 21st centuries is presented. Literature from literary journals and student magazines in North America, the Caribbean, Latin America, Great Britain, and other regions of the world will be studied. In addition to examining contemporary literary trends, the course analyzes literary standards, editorial techniques, and aesthetics in magazine graphic design. The final project of the course is the production of an issue of the multilingual literary magazine *Tonguas*.

ENGLISH 3041 - Developing the Functions of Oral English - Second Level I

*Three credits. Three hours of discussion and one hour of lab per week.
Prerequisite: INGL 3101-3102, INGL 3031-3032 or level 2 in the placement test.*

Vocabulary, idiom, pronunciation, and grammatical structures necessary to develop, within an interactive context, the linguistic functions of oral English at a basic-high level. Additional practice by attending the language lab.

INGL 3042 - Developing the Functions of Oral English-Second Level II

*Three credits. Three hours of discussion and one hour of lab per week.
Prerequisite: INGL 3041.*

Vocabulary, idioms, pronunciation, and grammatical structures necessary to develop, within an interactive context, the linguistic functions of oral English at a basic-high level. Additional practice by attending the language lab.

ENGLISH 3045 - Literature and Ecology

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Interdisciplinary course that examines essays, short stories, novels and films that deal with the relationship between humans and the natural and non-human world during the contemporary era of planetary changes, globalization, and increased commercial and technological dependence.

ENGLISH 3051 - Developing the Functions of Oral English-Third Level I

Three credits. Three hours of discussion a week. Prerequisite: INGL 3101-3102, INGL 3041-3042 or Level 3 on the placement test in the department.

Vocabulary, idiom, pronunciation, and grammatical structures necessary to develop, within an interactive context, the linguistic functions of oral English at a low-intermediate level. Additional practice by attending the language lab.

INGL 3052 - Developing the Functions of Oral English-Third Level II

Three credits. Three hours of discussion and one hour of lab per week. Prerequisite: INGL 3051.

Vocabulary, idiom, pronunciation, and grammatical structures necessary to develop, within an interactive context, the linguistic functions of oral English at a low-intermediate level. Additional practice by attending the language lab.

ENGLISH 3061 - Oral and Written English for Public Communication

Three credits. Three hours of lecture and one hour of laboratory time per week. Prerequisite: first year of English (first level).

A course offered to a limited number of public communication students. It teaches students correct verbal expression and the wording of topics clearly and in an effective manner. Oral and written communication techniques will be used in conjunction with a verbal enrichment program in the laboratory.

ENGLISH 3062 - Oral and Written English for Public Communication

Three credits. Three hours of lecture and one hour of laboratory time per week. Prerequisite: first year of English (first level).

Course to be offered to a limited number of public communication students. It teaches students correct verbal expression and writing topics clearly and effectively. Oral and written communication techniques will be used in conjunction with a verbal enrichment program in the laboratory.

ENGLISH 3065 - Intercultural Communication

Three credits. Three hours of lecture a week. Prerequisite: INGL 3101- 3102.

Theory and Practice as a Tool for Students to Communicate Effectively across cultural barriers. Topics to be discussed include perception, values, language, non-verbal communication, social organizations and international points of view. By means of comparisons in the above areas, the differences in communication processes will be emphasized. Face-to-face, hybrid and online course.

ENGLISH 3071 - Developing the Functions of Oral English - Fourth Level I

Three credits. Three hours of discussion and one hour of lab per week.

Prerequisite: INGL 3101-3102 and level four on the placement test. Students who took INGL 3103-3104 will not be admitted.

Vocabulary, idioms, pronunciation, and grammatical structures necessary to develop, within an interactive context, the linguistic functions of oral English at a high-intermediate level. Additional practice by attending the language lab.

ENGLISH 3072 - Developing the Functions of Oral English - Fourth Level II

Three credits. Three hours of discussion and one hour of lab per week.

Prerequisite INGL 3071.

Vocabulary, idiom, pronunciation, and grammatical structures necessary to develop, within an interactive context, the linguistic functions of oral English at a high-intermediate level. Additional practice by attending the language lab.

INGL 3081 - Acquiring English through Literature I

Three credits. An hour and a half of lecture and two hours of discussion per week. Prerequisites: ENGLISH 3003-3004 or 3102-3102 and level one or two of English Humanities.

Introductory course focused on the acquisition of the English language through the study and critical analysis of literary works. Emphasis will be placed on understanding the grammatical, syntactic and aesthetic use of language, as well as the analysis of structural components of different literary genres.

INGL 3082 - English Acquisition through Literature II

Three credits. An hour and a half of lecture and two hours of discussion per week. Prerequisites: ENGLISH 3003-3004 or 3101-3102, at a humanities level of English.

Introductory course focused on the acquisition of the English language through the study and critical analysis of literary works. Emphasis will be placed on understanding the grammatical, syntactic, and aesthetic use of language, as well as the process of creative writing, character representation, and performance.

INGL 3083 - Activist Journalism in the United States

Three credits. Three hours of seminar per week.

Study and practice of activist journalism, ranging from letters to corporations, politicians, and editors, to articles and columns, culminating in a final investigation and column on a local issue. Each student will post their best work on the internet. The course will examine journalistic coverage of news and social causes from a broad spectrum of opinions.

ENGLISH 3107 - Language and Gender.

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Introduction to the study of differences based on the use of gender in language. This course is of interest to students of linguistics, communications, translation, literature, and education.

INGL 3108 - Literature of the American Frontiers

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

The American frontiers from the beginnings of European contact to the present, with an emphasis on the relationship between frontier ideologies, indigenous cultures, and national development in the New World.

ENGLISH 3109 - Personal Identity: The Literature of Growth

Three credits. Three hours of lecture a week.

Study of the theme of growth and initiation to adult life. Readings of fiction that deals with the varied ways in which young men and women acquire their identity and maturity.

ENGLISH 3125 - Communication and Popular Culture

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

Examination of the relationship between communication and popular culture. Scientific field studies and critical methods are employed to study the ways in which communication creates, mediates, and controls cultural change and stability.

ENGLISH 3126 - Science Fiction

Three credits. Three hours of lecture a week. Prerequisite: first year of English.

Study of science fiction from H.G. Wells to the present, with emphasis on the characteristics of the literary techniques used in novels and short stories of the genre; and how science fiction deals with social problems and the effects of technology. Face-to-face, hybrid and online course.

ENGLISH 3128 - Fantasy in Literature

Three credits. Three hours of lecture a week. Prerequisite: ENGLISH 3101-3102 and English proficiency for class discussion.

Study of the representation of the fantastic in literature. Face-to-face, hybrid and online course.

ENGLISH 3156 - Literature and Contemporary Issues in Caribbean Development

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

An interdisciplinary introductory course that examines essays, short stories, novels, plays, and films that deal with contemporary issues in the economic and cultural development of the Caribbean from various perspectives. Option to fulfill the literature requirement of the general education component. Face-to-face, hybrid and online course.

INGL 3165 - Shakespearean Performance

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: one of the following: INGL 3103-04 or INGL 3011-12

o Level 5 on the English Department Placement Test or Advanced English Placement.

Study of Shakespeare and the Shakespearean text from a dramatic and representational perspective, with readings and stage work by students. Designed for non-literature majors; of special interest to students of drama, education, and communications.

INGL 3175 - Poetry Writing

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

Prerequisites: One of the following: 1. INGL 3103-04 or INGL 3011-12 or 2. Level 5 in the Dept. Placement Test English or Level 3 or higher on the College Board Advanced Placement Test (AP).

Intensive study of poetry writing techniques. This course can be repeated up to a maximum of two times (6 credits).

INGL 3190 - Organizational Communication

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

The study and practice of communication in various organizational environments.

ENGLISH 3191 - Introduction to Verbal Communication: Conversational English

Three credits. Two half-hour lab periods per week. Prerequisite: For students majoring in nutrition or dietetics.

Speaking practice to correct bad speaking habits and increase fluency and accuracy in the conversation. ^{Herself} Requires practice in the laboratory of languages.

ENGLISH 3192 - Introduction to Verbal Communication: Conversational English

Three credits. Two half-hour lab periods per week. Prerequisite: For students majoring in nutrition or dietetics.

The course emphasize basic precepts of the communication process. Practice in the language lab is required.

ENGLISH 3205 - The Grammar and Use of English I

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103- 3104; Level 5 Placement Test; Students who are English speakers or students who have passed Honours English in General Studies will not be admitted. Other students will be admitted according to the score obtained in the grammar diagnostic test.

Strengthening the knowledge and skills of non-native English speakers in grammar and the use of English. Intensive practice in the formation of the negative, frequency adverbs, verb tenses, modals, gerundal and infinitive phrases, prepositions and punctuation in terms of their relationship with grammatical structure. Face-to-face, hybrid and online course.

ENGLISH 3207 - The Grammar and Use of English I

Three credits. Three hours of discussion a week. Prerequisites: INGL 3101-3102; level 5 in the placement test; ENGLISH 3205.

Strengthening the knowledge and skills of non-native English speakers in the grammar and use of English. Intensive practice in relative clauses, noun clauses, parallel structures, adverbial clauses and conditional clauses.

ENGLISH 3212 - Advanced English II

Three credits. Three hours of discussion a week. Prerequisite: INGL 3211.

Development of reading, discussion, and writing skills through experience, interpretation, and evaluation of the novel, Shakespearean drama, and the complex texture of poetry. Research work related to literary study will be required.

ENGLISH 3215 - Mystery Fiction as Literature

Three credits. Three hours of lecture a week.

Study of the literary aspects of mystery fiction and its relationship to the great literary works of authors such as Dostoyevsky, Dickens, Twain, Borges, Conrad and James. Plot structures are emphasized. Characterization and psychology, the environment and the reader's involvement. It includes a historical overview of this literary form.

ENGLISH 3216– Biography

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Introduction to the study of biography and autobiography.

INGL 3217– Drama

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Introduction to the Study of Drama.

ENGLISH 3218– Fiction

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Introduction to the study of the novel and the short story.

ENGLISH 3219– Poetry

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Introduction to the Study of Poetry. Face-to-face, hybrid and online course.

INGL 3220 - Literary Analysis: Reading and Writing the Screenplay

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Principal's permission.

Literary analysis of film scripts written in English. Study of the script as a literary text in its use of environment, time and space, characters, plot and central structure. Writing descriptive or analytical essays on the theoretical and artistic materials discussed in class and short scripts, whether original or adaptations of narratives.

ENGLISH 3221 - Introduction to Literature I

Three credits. Three hours of lecture a week.

Appreciation and analysis of the essay, the short story and the novel.

ENGLISH 3222 - Introduction to Literature II

Three credits. Three hours of lecture a week.

Appreciation and analysis of drama and poetry.

ENGLISH 3224 - Introduction to Language: Readings

Three credits. Three hours of lecture a week. Prerequisite: ENGLISH 3103-3104 or advanced placement test in English.

The study of representative readings by various authors on the nature of language and the psychological and sociological aspects of communication. Face-to-face, hybrid and online course.

ENGLISH 3226 - The African American Experience

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Introduction to African American Literature from the Eighteenth Century to the Present. Readings in all literary genres, as well as works of history and sociology dealing with the development of African-American consciousness.

ENGLISH 3227 - U.S. English Phonetics and Phonics

Three credits. Three hours of lecture a week.

Correct pronunciation techniques and rhythm with oral exercises. Special attention will be given to individual speech defects.

ENGLISH 3228 - Women's Literature

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Study of selected works written by women. Exploration of how women have conceived their status in society and how they have represented their roles through poetry, fiction, drama and literary essays.

ENGLISH 3229 - The Caribbean Experience in Literature

Three credits. Three hours of lecture a week. Prerequisite: ENGLISH 3103- 3104

Introduction to Caribbean literature in English with an emphasis on the contemporary period. Included are readings of all literary genres by writers such as V.S. Naipaul, Shiva Naipaul, Jean Rhys, George Lamming, Michael Anthony, Jamaica Kincaid, Errol John, Derek Walcott, Earl Lovelace, and Kamaut Brathwaite. Attention is given to the development of distinctively Caribbean techniques and themes. Face-to-face, hybrid and online course.

INGL 3231 - Advanced Composition

Three credits. Three hours of lecture a week.

Compositions, annotations, summaries, discussion exams, book reports. Research work during the second semester. One-on-one lectures with the instructor. Face-to-face, hybrid and online course.

INGL 3232 - Advanced Composition

Three credits. Three hours of lecture a week.

Compositions, annotations, summaries, discussion exams, book reports. Research work during the second semester. One-on-one lectures with the instructor. Face-to-face, hybrid and online course.

ENGLISH 3235 - Translation: Fundamental Principles

Three credits. Three hours of lecture a week. Prerequisite: INGL 3101- 3102.

Grammar and syntax of written English, studied through translation. Study of idiomatic expressions, verbal structure and vocabulary. Face-to-face, hybrid and online course.

INGL 3236 - Writing Scientific Material

Three credits. Three hours of lecture a week. Recommended for natural science students and students related to scientific material instead of second-year English. Prerequisite: INGL 3103-3104.

A wide range of scientific readings on various topics. Essays on these subjects with special attention to the composition and writing of descriptive and analytical reports and theoretical essays with emphasis on

synthesizing the data provided by scientific materials by various authors. Face-to-face, hybrid and online course.

INGL 3237 - Introduction to Journalistic Writing

Three credits. Three hours of lecture a week. Prerequisite: ENGLISH 3103-3104 or more advanced course.

Methods of obtaining and reporting the news. Internship in writing in-depth articles, editorials, literary and sports criticism. Emphasis on news writing.

ENGLISH 3238 - Introduction to Literary Creation: Poetry

Three credits. Three hours of lecture a week. Prerequisites: Teacher's permission.

Introduction to poetic creation. Intensive individual work and group discussion of poetry writing. Face-to-face, hybrid and online course.

ENGLISH 3245 - Literary Translation

Three credits. Three hours of lecture a week. Prerequisite: INGL 3235 and teacher's permission.

The most advanced theory of translation and some readings in this field. The exercises to be translated will be mostly literary texts, such as: poems, short stories and essays of good literary quality that will be translated from Spanish to English. Face-to-face, hybrid and online course.

ENGLISH 3249 - Introduction to the Creole Languages of the Americas

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: Advanced placement test in English or INGL 3103-3104, or level 5 in the placement test or INGL 3011-3012.

A study of the historical and linguistic perspective on language formation in the Americas as complete linguistic vehicles. Face-to-face, hybrid and online course.

INGL 3251 - American Literature to 1865

Three credits. Three hours of lecture a week.

The development of American literature from its colonial origins to 1865 based on the most important authors and currents. Face-to-face, hybrid and online course.

INGL 3252 - American Literature from 1865 to the Present

Three credits. Three hours of lecture a week.

The development of American literature from 1865 to the present, with readings by the most representative authors. Face-to-face, hybrid and online course.

ENGLISH 3256 - Theory and Practice of Interpersonal Communication

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Study of the perception, description, analysis and improvement of human communication. Emphasis on the verbal and nonverbal dimensions of communications and primary message systems. Face-to-face, hybrid and online course.

ENGLISH 3257 - Introduction to Public Speaking

Three credits. Three hours of lecture a week. Prerequisite: INGL 3255, prior preparation in the voice-over or authorization of the teacher.

General and introductory course in the theory and practice of public speaking in English. Critical analysis of discourses. Face-to-face, hybrid and online course.

INGL 3258 - Parliamentary Practices in English

Three credits. Three hours of lecture a week. Prerequisite: INGL 3255 or prior preparation in voice-over or authorization from the teacher.

Practice in oral English through participation in parliamentary processes. Special attention to the drafting of a constitution, the conduct of formal meetings, the presentation of motions, the voting system, how to adjourn a session and the drafting of minutes.

INGL 3259 - The Immigrant Experience

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

A study of the literature that reflects the experiences of different groups of immigrants to the United States of America. Face-to-face, hybrid and online course.

ENGLISH 3266 - Non-verbal communication

Three credits. Three hours of lecture a week. Prerequisite: INGL 3256 or teacher's permission.

The study of the non-verbal behavior of human communication and its contribution to the communication process from the intra and intercultural perspectives. Face-to-face, hybrid and online course.

INGL 3275 - Theories of Human Communication

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

An introduction to the nature and functions of human communication as an area of study. It examines the construction of theoretical models in communication and human systems of symbols and signs, including theories of humanistic, scientific, and technological aspects in the areas of interpersonal, intercultural, organizational, and nonverbal communication. Face-to-face, hybrid and online course.

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INGL 3285 - Puerto Rican Literature Written in the United States

Three credits. Three hours of discussion a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

The study of literature by Puerto Rican writers in English in the United States with special emphasis on the development of themes, techniques, and language. Face-to-face, hybrid and online course.

INGL 3286 - Fiction Writing

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

Prerequisites: One of the following: 1. INGL 3103-04 or INGL 3011-12 or 2. Level 5 in the Dept. Placement Test English or 3. Level 3 or higher on the College Board Advanced Placement (AP) test. Intensive individual work and group discussion of fiction writing.

INGL 3287 - Ethics and Communication

Credits. Two hours of lecture and one hour of discussion per week. Prerequisites: one of the following: English 3103-3104, or English 3011-3012, or Level 5 on the Faculty of Humanities Language Skills Exam, or Advanced Placement in English. It requires complete proficiency and fluency in the use of English.

Approach to the nature and function of ethics in human communication. Emphasis on critical recognition and assessment of ethical issues in communication and the need to develop tolerance for disagreement and ambiguity.

INGL 3291 - Writing Literary Criticism I

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Fluency in the use of English, with knowledge of English syntax and mastery of a wide vocabulary. (This course is designed for students of the English literature concentration and must be taken in the second year of studies. It is a requirement for students of the concentration in literature).

Introduction to literary analysis, critical theory, and writing literary criticism. Students will write a series of critical essays. Face-to-face, hybrid and online course.

INGL 3292– Seminar

Three credits. Three hours of lecture a week. Prerequisite: INGL 3291.

Study of different critical approaches to one or more literary works. Practice in literary research and writing literary criticism.

ING 3315 - The Pronunciation of American English

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English.

Intensive study and practice of standard American English. The emphasis of the course is on the pronunciation of English used by the media (network English). Face-to-face, hybrid and online course.

INGL 3347 - The Rhetoric of Identity

Three credits. One hour of lecture and two hours of discussion per week. Prerequisites: INGL 3103, INGL 3104, INGL 3011, INGL 3012 or level five on the English Department placement test or level three or higher on the College Board Advanced English placement test.

Critical study of rhetorical artifacts, from a variety of contexts, around a range of issues associated with the social construction of identities.

INGL 3375 - The Gay and Lesbian Narrative

Three credits. Three hours of lecture a week. Prerequisites: score of 4 or 5 on the English placement test; INGL3103-3104.

Theoretical basis of what constitutes lesbian and homosexual literature in general and lesbian and homosexual narrative. Analysis and discussion of short stories, films, autobiographical writings and novels that fall within the definition of this genre.

INGL 3401 - English-speaking Afro-Caribbean Creole I

Three credits. Two hours of lecture and 3 hours of discussion per week.

Elementary-level immersion classes in a particular dialect of English-based Afro-Caribbean Creole whose goal will be a basic competence in speaking, pronunciation, comprehension, reading, use of vocabulary in its cultural context and the grammar of this dialect. The dialect selected as the main objective of instruction of the course may vary from year to year, in addition, special studies of the West African dialects of Jamaica and the East West Indies are conducted. It provides students with initial preparation for future research in Creole-speaking communities by training them in the analysis of written and oral data in various dialects of this language, and in effective communication with the speakers who participate in their research. This course has the equivalent of CREO 3401 in the department of languages and literature.

INGL 3402 - The Afro-Caribbean Creole II

Three credits. Two hours of lecture and 3 hours of discussion per week. Prerequisite: ENGLISH 3401.

Intermediate-level immersion classes in a particular dialect of English-based Afro-Caribbean Creole whose goal will be a basic competence in speaking, pronunciation, comprehension, reading, use of vocabulary in its cultural context, and the grammar of this dialect. The dialect selected as the primary instructional objective of the course may vary from year to year. In addition, special studies will be conducted of the dialects of South America, Central America, North America, and the East Antilles. It provides students with intermediate-level preparation for future research in Creole-speaking communities, as it trains them in the analysis of written and oral data in various

dialects of this language; and effective communication with the speakers involved in your research.

ENGLISH 3415 - AIDS: A Rhetorical Perspective

Three credits. Three hours of lecture and discussion per week. Prerequisite: Teacher's permission.

Study of selected works on AIDS from a rhetorical perspective or approach. Includes: strategies, rhetorical perspectives (study of genre, dramatic perspective, rhetorical demand) y AIDS metaphors. Emphasis on AIDS as a physical and social epidemic, and community ethics.

ENGLISH 4000 - Seventeenth Century English Literature

Three credits. Three hours of lecture a week.

Study of the works of John Donne and the metaphysical poets, Ben Jonson and the chivalric poets, John Milton. Face-to-face, hybrid and online course.

ENGLISH 4001 - Shakespeare: The Early Works

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Excellent command of English. It is recommended to have passed English 3001.

Study of comedies, tragedies, and history representative of Shakespeare's early production and the study of his development as a playwright in the first half of his career.

ENGLISH 4002 - Shakespeare: The Late Works

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Excellent command of English. It is recommended to have passed English 3001.

Study of tragedies, comedies, and romances representative of Shakespeare's early production and the study of his development as a playwright in the second half of his career. Face-to-face, hybrid and online course.

INGL 4005 - Literature, Orality and Performance

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Fluency in the use of English. A second year of literature is recommended.

Theory, techniques and intense practice in the oral interpretation and performance of literary texts. Selection, analysis, and oral performance of texts in individual and group readings. Materials on oral culture and performance are also discussed.

ENGLISH 4006 - Group Discussion

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, INGL 3011-3012, or Humanities English Department Placement Exam Level 5, or Advanced

Level in English. Fluency in the use of English. A second year of English literature is recommended.

Study and training in group dynamics and leadership.

INGL 4007 - Argumentation and Debate

Three credits. Three hours of lecture a week. Prerequisite: INGL 3255 or counselor's permission, 6 credits in spoken English.

Theory and procedure of argumentation and debate. Practice in Argumentative Expression by persuasive. Particular attention to the development of critical thinking.

INGL 4009 - The Renaissance in England

Three credits. Three hours of lecture a week.

The reception and influence of the Renaissance in England as reflected in the literature of the time.

INGL 4015 - The British Novel of the Eighteenth Century

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Fluency in the use of English. A second year of English literature is recommended.

The development of the British novel from its beginnings to Jane Austen. Readings by major authors, including Defoe, Richardson, Fielding, Sterne, and Austen.

INGL 4016 - The British Novel of the Nineteenth Century

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Fluency in the use of English. A second year of English literature is recommended.

The development of the British novel in the nineteenth century, with readings by major authors including the Brontes, Dickens, Elliot, and Hardy.

ENGLISH 4017 - Romanticism

Three credits. Three hours of lecture a week. Prerequisite: second year of English.

English Romantic poets, including Blake, Wordsworth, Coleridge, Shelley, Keats, and Byron. Main aspects and tendencies of English Romanticism, as well as the study of each author individually.

INGL 4019 - Satire

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Study of satire, its history, its conventions, strategies and the genres in which it appears. Reading and analysis of works from antiquity, always emphasizing satire in English from medieval times to the present.

INGL 4029 - Studies in Literature and Film

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Level 5 or higher on the English Department Placement Test or pass the Advanced Placement Test in English.

Course on specialized topics that reflect formal and critical tendencies in the study of literature and cinema. Topics vary each semester. The course can be taken up to three times on different topics. Face-to-face, hybrid and online course

INGL 4035 - British Drama from the Middle Ages to the Eighteenth Century

Three credits. Three hours of lecture a week. Prerequisites: INGL 3103-3104 or 3011-3012, or level five on the Humanities English Department placement test, or advanced level in English fluency in English usage.

Study of the development of British drama from the Middle Ages to the end of the 18th century excluding Shakespeare.

INGL 4037 - Introduction to Literary Theory: Practical Theory and Critical Writing

Three credits. An hour and a half of lecture and a half hour of discussion per week. Prerequisites: INGL 3103-3104 or 3011-3012, or level five on the humanities English placement exam, or advanced level in English fluency in English usage. A second year of English is recommended.

Basic introduction to the theory. Discussion of theoretical terms, groups of thoughts, and focus on their socio-historical context. It provides students with the tools to write critically, incorporating strategies learned from critical texts.

INGL 4038 - Queer Sexualities in Film.

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: one of the following: INGL 3103-3104 or INGL 3011-3012 or level five on the humanities placement exam. Fluency is required.

Analysis of identities and practices related to sexualities, desires and representations in cinema.

ENGLISH 4039 - Shakespeare in the Movies

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: one of the following: INGL 3103-3104 or INGL 3011-3012 or level five on the English Department placement test or level four or higher on the College Board Advanced Placement Test. High level of fluency.

Study of films based on Shakespeare's plays, and the ways in which film has been used to popularize, interpret, and transform the Shakespearean text. The course will consider the history of Shakespeare in film from the silent film era, the attempts of early talkies to bring the bard to film audiences, to the renewal of Shakespeare due to the work of directors such as Oliver, Wallis, Zeffirelli, Branagh in more recent times, and the transformation of Shakespeare's texts through the extensive changes of directors such as Kurosawa. The symbiotic relationship between Shakespeare's texts and the filmic medium will be explored. Face-to-face, hybrid and online course.

ENGLISH 4046 - Globalization and World Literature

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Interdisciplinary course that examines, from multiple perspectives, literary genres and films that focus on contemporary issues of globalization, power and development, and their literary and theoretical considerations and representations.

ENGLISH 4048 - The Asturian Legend in Literature and Popular Culture

*Three credits. One hour of lecture and two hours of discussion per week.
Prerequisite: Fluency in English. Face-to-face, hybrid and online course.*

Study of the origins of the legend of King Arthur during the Middle Ages in Wales, England, Ireland and France, tracing its development, transmission and transformation until the twenty-first century in literary texts and popular culture. The course will focus on the development and adaptations of Asturian materials from their origin to modern adaptations and approaches. The course will explore the power of myth and legend and analyze the processes of historical change, cultural exchange, adaptation, and appropriation.

ENGLISH 4049 - Special Topics in Caribbean Literature and Culture

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

A specialized course on topics about Caribbean society and its literary expression, through literary analysis and other areas such as cinema, history, music, politics, performance, religion or popular culture. Topics vary by semester. The course can be taken up to three times, when different topics are involved.

ENGLISH 4055 - Film and Literature

Three credits. Three hours of lecture a week.

Study of the close relationship between cinema and literature. Literary texts followed by film versions are examined with discussion of techniques, differences between media, changes in film interpretation and their effectiveness. This includes writers who have been influenced by film or who write screenplays. Face-to-face, hybrid and online course.

INGL 4056 - Special Topics in American Literature

*Three credits. Two hours of lecture and one hour of discussion per week.
Prerequisites: ENGLISH 3103-3104 or 3011-3012, or advanced level five English Humanities or take an advanced exam in English.*

A specialized course on topics that reflect contemporary currents or themes in the study of American literature and culture. Topics vary each semester; It can be repeated up to a maximum of three times. (Equivalent to nine credits.) Face-to-face, hybrid and online course.

INGL 4057 - Communication and Sexualities

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

Prerequisites: INGL 3103-3104 or INGL 3011-3012, or have obtained level five in the English Humanities Department placement test.

Introductory course of lectures and discussion on the relationships between sexualities and communication. The course is designed for the student to develop critical thinking skills when analyzing problems related to discourses on sexualities and/or communicative processes. More specifically, the course examines the creation, articulation, production, reproduction, objection, containment, and change of sexual identities through discursive practices and social interaction.

INGL 4058 - Bilingual Theatrical Production

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

Prerequisites: 4 to 6 credits of practical theatre such as TEAT 3011-12 (acting), TEAT 4101-01 (costumes), TEAT 4211-12 (directing), etc. or by consent of the teacher. One of the following English courses: INGL 3103-3104, INGL 3011-3012, Level 5, English Department Placement Test, or an appropriate accommodation at an advanced level in English.

This elective course is designed to introduce students to the process of creating a bilingual theatrical production, starting with the study of a text. The text you select can be written in Spanish or English and will be translated into the other language. The students will use both scripts – Spanish and English in their participation to dramatize them in a complete production. They will be able to participate as actors, assistant director, stage manager, costume designers, set designers, playwrights and promoters. At the same time, they must keep a diary and make a final written report of their semester activities to stage the text and its translation. The course will culminate in a production of the selected drama and its translation. This course is equivalent to TEAT 4058.

ENGLISH 4065 - Caribbean Literature, Masculinity and Cultural Development

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Interdisciplinary course that explores key concepts in masculinity in the Caribbean and internationally as social constructions through literature, films and popular culture. It provides students with an introduction to the study of men and male behavior as a socio-cultural product and with recent debates on the topic. This course is an option to fulfill the literature requirement of the general education component. Face-to-face, hybrid and online course.

INGL 4069 - US/Latino/a Drama

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

This course explores Latino drama with an emphasis on theatrical plays and traditions in the United States since the 1950s, particularly as they relate to Puerto Rican, Cuban, and Chicano communities, among others. It is an option to fulfill the literature requirement of the general education component.

INGL 4076 - Special Topics on Communication

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: Level 5 or higher on the Faculty of Humanities Placement Exam or Advanced Placement Exam. Fluency in English.

Specialized course on trends and issues in the study of human communication. Topics vary by semester. It can be taken up to three times under different themes.

INGL 4095 - The Victorian Era

Three credits. Three hours of lecture a week.

A study of the various aspects of the Victorian era as reflected in the literature of the time. Face-to-face, hybrid and online course.

ENGLISH 4096 - Twentieth-Century Poetry

Three credits. Three hours of lecture a week.

The most outstanding poets in the English language from 1914 to the present.

INGL 4097 - British Literature of the Restoration and the Eighteenth Century

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Fluency in the use of English. A second year of English literature is recommended.

Study of the literature (excluding the novel) of the extended eighteenth century (1660-1800) with emphasis on the most important techniques and authors, including Dryden, Swift, Pope, and Johnson.

ENGLISH 4105 - Language Change

Three credits. Three hours of lecture a week. Prerequisite: INGL 3225 or 4205 or teacher's permission.

Study of the field of language in time and space, and the social motive for change. Face-to-face, hybrid and online course.

ENGLISH 4106 - Introduction to Discourse Analysis

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Fluency in the use of English. It is recommended to have passed INGL 3225 or 4205.

The linguistic theory of discourse organization analysis. The theory is applied to areas such as language, education, literary analysis, and language acquisition research. Face-to-face, hybrid and online course.

ENGLISH 4115 - Introduction to Rhetorical Criticism

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: at least one course in oral communication in English humanities or permission from the teacher. Fluency is required.

Introduction to the methods, theories, and practice of rhetorical criticism.

ENGLISH 4125 - Introduction to Semantics

Three credits. Three hours of lecture a week. Prerequisite: first year of English.

Introduction to the study of the meaning of words and expressions, their variants and their universal use. Of interest to students of communication, literature, translation and linguistics.

INGL 4127 - The Politics of Representation in American Filmmaking and Literature

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the English Department Placement Test or Level Three on the College Board English Placement Test.

A historical account of the representations made of ethnicity, gender, or race in American film and literary production, from the early 20th century to the present. The interdisciplinary approach of this study of narrative focuses on the diversity of representations made of "otherness" in a variety of texts, through its analysis at crucial moments in the historical and ideological development of the nation, and examining the concepts that cultural criticism contributes to the understanding of the method and meaning of representation and how it affects identity. Face-to-face, hybrid and online course.

ENGLISH 4145 - Communication in the Family

Three credits. One hour of lecture and two hours of discussion. Prerequisites: one of the following, INGL 3103-3104 or INGL 3011-3012 or level 5 on the placement test. INGL 3275 or 3256.

It explores the family structure as a communicative system, taking into consideration aspects related to its interactions, functioning, and communication. The teaching materials cover topics such as material relationships, parent-child relationships, and intergenerational relationships. Processes inherent to communication in the family (conflicts, assertiveness, social support, intimacy, decision-making, cultural and ecological factors) and problems faced by the family of the new millennium are studied. Various family types and methods of analysis are also discussed. Face-to-face, hybrid and online course.

ENGLISH 4205 - The Study of Language: Introduction to Linguistics

Three credits. Three hours of lecture a week. Prerequisite: INGL 3103-3104, or INGL 3011-3012, or Level 5 on the Humanities English Department Placement Exam, or Advanced Level in English. Fluency in the use of English. A second year of English is recommended.

Contemporary linguistic theory, including phonetics and phonemics, morphology, syntax, discourse analysis as well as linguistic variation and change. Face-to-face, hybrid and online course.

ENGLISH 4206 - Modern English Grammar: The Structure of Sentence and Clause.

Three credits. Three hours of lecture a week.

Syntactic functions, types of clauses, definition of parts of speech. Face-to-face, hybrid and online course.

ENGLISH 4207 - Introduction to Transformational Grammar

Three credits. Three hours of lecture a week. Prerequisite: Have passed six credits in language or linguistics courses.

Introduction to linguistic principles from the point of view of the transformational grammarians. Study of the linguistic processes by which thoughts are expressed in English. Principles and History of Transformational Grammar.

ENGLISH 4208 - Development of Modern English

Three credits. Three hours of lecture a week.

English in the Indo-European language family. The eras of "old English", "middle English" and "early modern English". The Historical Background of Modern American English. Face-to-face, hybrid and online course.

ENGLISH 4209 - The Structure of Sentence and Clause

Three credits. Three hours of lecture a 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.

INGL 4215 - The Contemporary Novel

Three credits. Three hours of lecture a week.

Study of the contemporary novel, its currents and themes, from 1940 to the present. Texts from the British, or the American, or other English-language literatures will be included

INGL 4215 - Contemporary Novelistics

Three credits. Three hours of lecture per week

Study of the contemporary novel, its currents and themes, from 1940 to the present. British, or American, or other English-language texts will be included.

INGL 4216 - The Drama of the Twentieth Century

Three credits. Three hours of lecture a week.

The most important dramas written in the English language since 1914.

INGL 4217 - Contemporary Drama

Three credits. Three hours of lecture a week.

Drama in England and the United States from 1940 to the present.

ENGLISH 4218 - American Literature and "The American Dream"

Three credits. Three hours of lecture a week.

Study of literature that reflects the development and loss of faith in "the American dream", and the traditional values of American society. Face-to-face, hybrid and online course.

INGL 4219 - The American Novels of the Nineteenth Century

Three credits. Three hours of lecture a week.

These are the most representative works of the novelists and short story writers of this period.

ENGLISH 4225 - Values and Myths in Literary Genres and American Cinema.

Three credits. Three hours of lecture a week.

Study of select genres in North American literature and cinema such as: western, comedy, horror, gangsterism, film noir and others. Emphasis on narrative style, thematic content, ideology, values, myths, and reality reflected in both means of expression. Face-to-face, hybrid and online course.

INGL 4230 - Introduction to Human Communication Research

Three credits. Three hours of lecture a week. Prerequisite: Six credits in English Communication Humanities and English 3103-3104, or English 3011-3012 or Level 5 on the English Department Placement Test or Advanced Level in English.

Introduction to the theoretical and practical issues that determine the procedures most commonly used in human communication research. Face-to-face, hybrid course y online.

ENGLISHL 4235 - Comparative Analysis of the Syntactic Structures of English and Spanish

Three credits. Three hours of lecture a week.

Detailed comparison of American English and Puerto Rican Spanish from the point of view of phonetics, phonemics, inflection, and respective intonation.

ENGLISH 4236 - Comparative Analysis of the Syntactic Structures of English and Spanish

Three credits. Three hours of lecture a week. Prerequisite: second year of English.

Inflection, morphology, sentence and clause structure of English and Spanish.

ENGLISH 4237 - Introduction to Linguistic Research

Three credits. Three hours of lecture a week. Prerequisite: INGL 3225 or ENGLISH 4205.

Methods for conducting field and library research in the area of linguistics. Face-to-face, hybrid and online course.

INGL 4238 - The Novels of the Twentieth Century

Three credits. Three hours of lecture a week.

The novel and short story in the English language and its most representative authors from 1914 to the present.

INGL 4256 - Literature by Latino/a Writers in the U.S.

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

Study of the literary works of Latino/a writers in the U.S. and their contribution to a multifaceted literary tradition. From a transnational perspective, themes and concepts such as assimilation,

bilingualism, biculturalism, etc. are explored. And the historical, cultural, social and political contexts from which the works are produced are analyzed. Face-to-face, hybrid and online course.

INGL 4265 - Magical Realism in American Narrative

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: Director's Permission

The comparative study of the variety of moments in which magical realism flourishes in the North American narrative tradition. Theoretical, literary, and film texts will be included.

ENGLISH 4336 - The Dark Side of Human Relationships

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: At least one English Oral Communication in the Humanities course or permission from the teacher. Fluency in English is required.

An exploratory and critical study of interpersonal communication studies that focuses on the role that darker behaviors play in human relationships. It attempts to shed light on the dark side of social behavior (e.g., deception, addiction, jealousy, infidelity, gossip, conflict, regret, taboo, betrayal, guilt) while addressing the ideology of optimism from the study of interpersonal relationships from the perspective of human communication.

INGL 4346 - Theory of Contemporary Rhetoric

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: one of the following: English 3103-3104, or English 3011-3012, or a level five in English humanities, or an advanced exam in English.

Introduction to the history and development of rhetorical theory, paying particular attention to the contemporary period.

INGL 4347 - Theory of Classical Rhetoric

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: English 3103-3104, or English 3011-3012 or a level 5 in English humanities or take an advanced exam in English.

Introduction to the history and development of rhetorical theory in the Western world, paying particular attention to the classical period.

ENGLISH 4365 - Seminar on the History of Literature

Three credits. Three hours of lecture. Prerequisite: 12 credits of English.

The development of literary practices from their historical frameworks. One can study the literature of an era or movement, theories of literary history as a method of organizing the study of literature, and/or the works of writers selected for their influences on the development of literature.

INGL 5005 - Critical Writing Seminar

Three credits. Three hours of lecture a week. Prerequisite: Director's Permission

Composition of literary criticism based on literary analysis. Advanced research techniques. Advanced composition of literary criticism and theses on literary topics.

INGL 5017 - Writing the Story

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

Prerequisite: Teacher consent based on a writing sample.

Intensive individual work in the writing of the story.

ENGLISH 5035 - Study Trip in Literature, Communication or Linguistics.

Three credits. Prerequisites: None for undergraduate students. For graduate students, approval from the department chair is required for the course to count toward the degree. All students need the teacher's approval and the ability to be involved in the travel portion of the course. Pay for the trip on time.

A combination of study and travel through which students will be able to have contact with places, cultural artifacts and the history of topics in literature, communication and linguistics. Different variants of study trips will be offered to give students the experience of traveling to countries linked to the literature, communication or linguistics that is the object of study and to get involved with the culture, language, history, art and architecture discourse of the times, authors and types of literature or to acquire direct experience of the topics in communication or linguistics under study. Can be repeated up to 3 times.

ITAL 3001 Intensive Italian I

Three credits. Requirement: ITAL 3001L – Intensive Italian Laboratory I (2.5 hours– 0 crs.)

This course is aimed at beginner students and is focused on the development of communicative competence through the practice of the four functional skills of the Italian language (listening, speaking, reading and writing) and contact with culture.

ITAL 3002 Intensive Italian II

Three credits. Prerequisite: ITAL 3002L – Intensive Italian Laboratory II (2.5 hours– 0 crs.)

(Prerequisite: ITAL 3001) Continuation of the ITAL 3001 course.

The course is focused on the development of communicative competence through the practice of the four functional skills of the Italian language (listening, speaking, reading and writing) and contact with culture.

ITAL 3035 Intermediate Italian

Three credits. (Prerequisite: ITAL 3002) Complete the introductory cycle to the study of the Italian language.

Communicative competence is strengthened through the practice of the four functional skills of the language and contact with culture, while new grammar points at an intermediate level are introduced. Reading and analysis of texts and writing are emphasized.

ITAL 4016 Speaking Techniques

Three credits. (Prerequisite: ITAL 3035)

Develop oral communicative competence in Italian in communication situations of everyday, academic and professional life such as self-presentation, review, presentation of documents, argumentative report and debate, based on multimedia documents. The language registers, rhetorical and cultural strategies, vocabulary and grammatical elements required in each situation or discursive genre studied will be addressed. In order to provide a common content base for the techniques addressed, current materials related to the contemporary Italian world have been chosen. This is an intensive oral practice course.

ITAL 4017 Advanced Composition and Grammar

Three credits. (Prerequisite: ITAL 3035)

Develop communicative competence written in Italian through the study of discursive genres of everyday, academic and professional life such as: the diary, the description, the review, the letter and the dissertation. Language registers, rhetorical strategies, vocabulary and, above all, the grammatical elements necessary for the appropriate elaboration of each discursive genre studied will be addressed. This is an intensive writing course.

ITAL 4011 Introduction to Italian Literature I

Three credits. (Prerequisite: ITAL 3035)

Study of key texts of Italian literature from the Middle Ages to the beginning of the seventeenth century, and the literary schools or periods that frame them, with special emphasis on the study of literary history, critical reading, and literary analysis.

ITAL 4025 The Divine Comedy

Three credits. (Prerequisite: ITAL 3035)

Dante and his times: his vision of the universe. Study of the fundamental themes of the book, as well as its artistic, poetic and cultural values.

ITAL 4030 The Italian Renaissance

Three credits. (Prerequisite: ITAL 3035)

A complete picture of the development of literary currents, representative authors and constituent elements of the Italian Renaissance, from the humanism of the fourteenth and fifteenth centuries to the late Renaissance of the sixteenth century. It also examines the much-discussed "questione della lingua italiana" in the broader context of the literary genres of the second Italian Renaissance, such as the treatise, the epic poem, the historiography and the lyric.

ITAL 4036 Petrarch and Boccaccio, early humanists

Three credits. (Prerequisite: ITAL 3035)

This course will address the life, work, and world of Petrarch and Boccaccio. He will present them not only as founders of the Italian language and literature, but as true promoters and protagonists of the humanist movement between the first and second Renaissance.

ITAL 4037 Italian Renaissance Theatre

Three credits. (Prerequisite: ITAL 3035)

Detailed study of sixteenth-century Italian theatre, with particular attention to selected comedies, tragedies and pastoral dramas by Ariosto, Machiavelli, T. Tasso, Aretino, Trissino and G.B. Giraldi Cinzio. Emphasis on the Italian Renaissance readaptation of Greek and Roman plays.

ITAL 4801 Dante: The Divine Comedy I (3 crs.)**ITAL 4802 Dante: The Divine Comedy II (3 crs.)****ITAL 4012 Introduction to Italian Literature II**

Three credits. (Prerequisite: ITAL 3035)

Study of key texts of Italian literature from the seventeenth 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.

ITAL 4009 Neorealism in Literature and Film

Three credits. (Prerequisite: ITAL 3035)

Study of novels and films that mark the era of Italian neorealism in twentieth-century cinema and literature in order for intermediate and advanced students to have a historical, political, social and literary vision of Italy from 1929 to 1955. Lecture and discussion on topics such as: the history of the genre and the link between literature and cinema; the depiction of fascism, anti-fascism and war; the crisis of the bourgeois class; the "questione del mezzogiorno", the Holocaust and racial persecution; the concept of diversity and identity; the "resistance" and political commitment of intellectuals; The portrait and condition of the Italian woman.

ITAL 4015 Contemporary Italian Writers

Three credits. (Prerequisite: ITAL 3035)

Reading and discussion of the most important works by Alberto Moravia, Italo Svevo, Ignazio Silone, Carlo Levi and Cesare Pavese.

ITAL 4031 Nineteenth-Century Italian Literature– 1

Three credits. (Prerequisite: ITAL 3035)

Reading and analysis of the works of those authors whose dramatic, novel and poetic production stand them out as representative of the time.

ITAL 4032 Nineteenth-Century Italian Literature– 2

Three credits. (Prerequisite: ITAL 3035)

Reading and analysis of the works of those authors whose dramatic, novel and poetic production stand them out as representative of the time.

ITAL 4045 Italian Theatre of the 20th Century

Three credits. (Prerequisite: ITAL 3035)

Study and analysis of the most representative works of Italian theatre of the twentieth century.

ITAL 4008 From Baroque to Romanticism

Three credits. (Prerequisite: ITAL 3035)

Elective course of lectures and discussion of readings aimed at students who have an advanced command of the Italian language. The literature of the seventeenth and eighteenth centuries on the Baroque and the Enlightenment is analyzed. Attention is paid to the general characteristics and in particular to authors such as Marino, Della Valle, Sarpi, Galileo, Parini, Alfieri, Vico, Metastasio and Goldoni.

ITAL 4115 Gender in Italian Literature

Three credits. (Prerequisite: ITAL 3035)

The study of the concept of gender and its implications for both the reading of classical and modern Italian texts, as well as for the interpretation of films.

ITAL 4101 History of the Italian Language

Three credits. (Prerequisite: ITAL 3035)

Where does the Italian language come from? What are its origins, which are shared with other Romance languages such as Spanish, French, Portuguese, etc.? How has Italian evolved and changed over the centuries? How did Italians communicate in the past? When and why words like *bravo*, *casino*, *anima*, *minister*, and many others, have lost their original meaning and acquired a different one? This course provides a scientific and historical answer to these (and other) questions, and offers a diachronic linguistic analysis of the development of the Italian language from Latin. No prior knowledge of Latin is required, as all examples will be translated and explained. In this internal evolutionary perspective of language, the changes that occurred in phonetics and morphosyntax will be studied, with some references to lexicology, semantics and pragmatics. On the other hand, factors external to the language will be taken into account, and the socio-cultural changes that have influenced literary styles, and that have raised a historical debate on the Italian language model ("la questione della lingua") will be analyzed.

ITAL 4102 Italian Linguistics

Three credits. (Prerequisite: ITAL 3035)

Where does the Italian language come from? What are its origins, which are shared with other Romance languages such as Spanish, French, Portuguese, etc.? How has Italian evolved and changed over the centuries? How did Italians communicate in the past? When and why words like *bravo*, *casino*, *anima*, *minister*, and many others, have lost their original meaning and acquired a different one? This course provides a scientific and historical answer to these (and other) questions, and offers a diachronic linguistic analysis of the development of the Italian language from Latin. No prior knowledge of Latin is required, as all examples will be translated and explained. In this internal evolutionary perspective of language, the changes that occurred in phonetics and morphosyntax will be studied, with some references to lexicology, semantics and pragmatics. On the other hand, factors external to the language will be taken into account, and the socio-cultural changes that have influenced literary styles, and that have raised a historical debate on the Italian language model ("la questione della lingua") will be analyzed.

ITAL 4125 Sociolinguistics

Three credits. (Prerequisite: ITAL 3035)

This course examines linguistic variations in Italy and presents the relationship between Italian society and its linguistic forms and attitudes. In this context, the linguistic varieties of modern Italian are presented and analysed in four dimensions of variation: 1) geolinguistic, regional and dialectal (diatopia); 2) social variables such as social status, gender, age, profession, etc. (dystratia); 3) variety of contexts, such as formal vs. informal, written vs. oral, language registers, codes, jargons, etc. (diaphasy); and (4) media such as television, radio, newspapers, advertising, etc. (diamesia). In the same way, different types of Italian are identified: standard, neo-standard, regional, popular and codes of the technical or specialized language in Italian. The course also deals with aspects such as the language of immigrants and minorities in Italy, and the Italian spoken outside Italy.

ITAL 4001 Italian Civilization I

Three credits. (Prerequisite: ITAL 3035)

Study of the patterns of Italian life and culture and its literature represented in the works of its outstanding writers through readings, class discussion, and written and oral works.

ITAL 4002 Italian Civilization II

Three credits. (Prerequisite: ITAL 3035)

Study of the patterns of Italian life and culture and its literature represented in the works of its outstanding writers through readings, class discussion, and written and oral works.

ITAL 4006 Independent study in Italian

Three credits. (Prerequisite: ITAL 3035 and authorization from the professor, academic advisor and the head of the department; submit to the director in the semester before the start of the course, a proposal of the topic to be developed following the procedures established by the department)

Guided research concerning topics, theoretical propositions of specific problems in the discipline according to the student's personal interests. The course can be taken a maximum of 3 times.

ITAL 4026 Italian for Business

Three credits. (Prerequisite: ITAL 3035)

This course is aimed at students who have an intermediate knowledge of the Italian language and a particular interest in the field of economics and commerce. It provides a complete picture of the cultural and political context in which work takes place in Italy and provides students with the basic vocabulary that will enable them to interact with the Italian trading system.

ITAL 4038 Introduction to Italian Cinema

Three credits. (Prerequisite: ITAL 3035)

Introduction to Italian cinema from 1896 to the present. It is aimed at students with intermediate or advanced knowledge of the Italian language. Through the study of films and their main directors, students will have a panoramic view of Italian history and culture of the 20th century. Lecture and discussion on the following topics and genres: silent films (1896-1929), cinema during the fascist period, the Holocaust, World War II

y the "resistance", the cycle of neorealism, the problems during the post-war period, existential cinema and introspective, the lyricism of Pasolini, the southern emigration, the experimentation of Fellini in the sixties, the "comedy all'italiana", the "spaghetti western" genre, the political, social and ideological cinema, the Italian cinema in the new millennium.

ITAL 4055 Language Culture Cinema

Three credits. (Prerequisite: ITAL 3035)

Study of the Italian language and culture through cinematographic art.

ITAL 4057 The Italian Novel in the Cinema

Three credits. (Prerequisite: ITAL 3035)

The novel and the Italian language studied through the art of cinema.

ITAL 4065 Didactics of the Italian Language

Three credits. (Prerequisite: ITAL 3035)

The course covers various theoretical and practical aspects of the teaching of Italian as a foreign language. First, the basic notions of second language acquisition will be presented, including some elements of psycho- and neuro-linguistics and a historical outline of language teaching methods. Second, the principles of language teaching and learning will be examined. The core of the course will provide students with the skills to create basic teaching materials and language classes (collecting, evaluating and adapting sources, selecting or creating exercises and activities, using technologies, assessing language proficiency, etc.). The theories are applicable to all levels of Italian language learning, but students will have to work and prepare didactic material only for the beginner level of the Italian language. Finally, a typology of student profiles will be identified, and the approaches related to them will be described.

ITAL 4200 Imagination and Literature in Italian Culture: An Interdisciplinary Perspective

Three credits. (Prerequisite: ITAL 3035)

The links between Italian literature and culture have been a topic 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 the 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 Calvin to Dante. In particular, it will be analysed how literature and imagination complement each other in such a way that they almost imperceptibly allow us to visualise and construct spaces through reading, analysis, film interpretations or other artistic forms. This course will be offered in face-to-face, hybrid and online modalities.

ITAL 4216 Advanced Study in Italian

Three credits. (Prerequisite: ITAL 3035)

Development of communication skills at an advanced level. Course content may vary from semester to semester.

ITAL 4994 Topics: Language, Literature and Culture

One to three credits (Prerequisite: ITAL 3035)

A course on variable topics in which different aspects of the Italian language, literature or culture are discussed. Some examples of topics are: the history of the Italian language, introduction to Italian linguistics, Italian dialects, methods of teaching Italian as a second language, applied linguistics, acquisition of second or foreign languages, classroom materials and practices, assessment strategies, technologies and teaching of Italian as a second language, the discourse of fascism, the discourse of the Mafia, the literature of the Mezzogiorno, advanced themes of Italian grammar. The course may be repeated up to a maximum of 6 credits under different topics.

JAPO 3001 Japanese I

Three credits.

The course is a comprehensive approach to the development of the four functional skills (listening, speaking, reading and writing) for beginning learners. This integrated course focuses on a global communicative competence by balancing accuracy, fluency and complexity. The course introduces students to a unique culture in the world and provides them with a solid foundation for further study.

JAPO 3002 Japanese II

Three credits. (Prerequisite: JAPO 3001)

The course is a comprehensive approach to the development of the four functional skills (listening, speaking, reading and writing) for beginning learners. This integrated course focuses on a global communicative competence by balancing accuracy, fluency and complexity. The course introduces students to a unique culture in the world and provides them with a solid foundation for further study.

JAPO 3003 Experimental Japanese

Three credits. (Prerequisite: JAPO 3002)

Emphasis on the development of a basic skill in written communication and on the reinforcement of the skill in oral communication that has been developed in previous courses.

JAPO 4216 Advanced Japanese Studio

Three credits. (Prerequisite: JAPO 3003)

Development of communication skills at an advanced level. Course content may vary from time to time.

LATI 3015 Classical Latin for Researchers I

Three credits.

Study of Latin through the morphosyntactic analysis of classical Latin, with emphasis on verbal morphosyntax. It focuses on the study of the conjugation of regular verbs, both in their personal and non-personal forms (infinitive and participle), with the main objective of enabling the student to access Latin texts with a more complex syntax. The study of grammatical forms is accompanied by the reading, analysis and translation of fragments of prose by some of the most representative poets, orators and historians of classical Rome, such as Cicero, Quintilian, Ovid and Seneca.

LATI 3001 Intensive Latin I

Three credits.

Elementary course in Latin grammar and syntax. Introduction to the study of the Latin language. Emphasis on verbal morphology (the perfect tenses of the indicative mood, subjunctive mood, noun forms, periphrastic conjugations) and syntax (subordination). Vocabulary study and translation of texts.

LATI 3002 Intensive Latin II

(Prerequisite: LATI 3001)

Elementary course in Latin grammar and syntax. Introduction to the study of the Latin language, level 2. Emphasis on verbal morphology (the perfect tenses of the indicative mood, subjunctive mood, noun forms, periphrastic conjugations) and syntax (subordination). Vocabulary study and translation of texts.

LATI 3003 Intensive Latin III

Three credits. (Prerequisite: LATI 3002)

Reading and commentary on Latin texts of medium difficulty; Emphasis on grammatical analysis, with a view to strengthening and expanding the student's knowledge of Latin grammar.

LATI 4005 Independent Study in Classical or Medieval Latin

Three credits. (Prerequisites: LATI 3003 or its equivalent, authorization of the professor, the academic advisor and the director of the department; submit to the director, the semester prior to taking the course, a proposal of the topic to be developed following the procedure established by the department)

Directed research in classical or medieval Latin on themes, theoretical approaches or problems of individual interest to the discipline. The course can be taken a maximum of three times (9 credits) under different topics.

LITE 3011 Modern and Contemporary Literature (I)

Three credits. Three hours of lecture a week.

Panorama of European Literature from the Sixteenth Century to the Present Day; Study of genres (lyric, epic, novel, drama, etc.) and variants of the literary tradition (humanism, baroque, neoclassicism, romanticism, realism, etc.). Attention should be paid to the national manifestations of this European literature. Face-to-face, hybrid and online course.

LITE 3012 Modern and Contemporary Literature (II)

Three credits. Three hours of lecture a week.

Panorama of European Literature from the Sixteenth Century to the Present Day; Study of genres (lyric, epic, novel, drama, etc.) and variants of literary tradition (humanism, baroque, neoclassicism, romanticism, realism, etc.). Attention should be paid to the national manifestations of this European literature. Face-to-face, hybrid and online course.

LITE 3013 Literature and Cultures: From the Avant-Garde to the Second Millennium

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

The course proposes an exposition of the themes, 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 high school students 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 Bachelor's Degree in Comparative Literature. Face-to-face, hybrid and online course.

LITE 3014 Literature and Culture: Caribbean Studies

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

The course presents the complex multicultural diversity of the Caribbean from its earliest representations to the twenty-first century, studying its diversity through a comparative and interdisciplinary methodological approach. It addresses issues of aesthetics, representation, intercultural dialogue, and explores how issues of coloniality and decoloniality, race, gender, and sexuality impact the creative expression of Caribbean writers and artists working within a variety of literary genres and diverse cultural forms. The course will be a route that will travel through the different areas of the insular and continental Caribbean (Hispanic, French, Creole, Anglo and Dutch) attending to 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 interested in the subject. This course is an option to fulfill the core component of the undergraduate program in comparative literature. Face-to-face, hybrid and online course.

LITE 3045 Introduction to Comparative Studies in Literature

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

A requirement course in which the student is introduced to the basic elements of comparative studies in literature and research in the field. It is divided into three units: the first explores the dimensions of the literary; the second, the history and trajectory of the discipline, its main approaches and the current debates about it; and the third, the minimum protocols of literary research from the bibliographic search to the writing of an analytical essay. Face-to-face, hybrid and online course.

LITE 3051 - Classical Literature

Three credits. Three hours of lecture a week.

A panoramic course in Western literature, from its beginnings to the fall of the Roman Empire, and the literatures of the Near East and India which, in one way or another, have influenced the literary development of the West.

LITE 3052 - Classical Literature

Three credits. Three hours of lecture a week.

A panoramic course in Western literature, from its beginnings to the fall of the Roman Empire, y the literatures of the Near East and India which, in one way or another, have influenced the development of the West.

LITE 3061 Medieval and Pre-Renaissance Literature (I)

Three credits. Three hours of lecture a week.

Problems presented by the concept of medieval literature. These are features that distinguish it from the classical one (Augustine, Boethius). Medieval Latin Literature. Formation of Modern National Literatures; genres and new elements they introduce. Studies of the culminating works and authors: Beowulf, Chaucer, "The Song of Roland", "Le Romano de la Rose"; Tristan und Isolde, "Parsifal"; and "The Song of the Nibelungs". The Italian Trecento: Dante, Petrarch and Boccaccio. Literature of the Humanism and Pre-Renaissance period. Face-to-face, hybrid and online course.

LITE 3062 Medieval and Pre-Renaissance Literature (II)

Three credits. Three hours of lecture a week. Prerequisite: LITE 3061

Problems presented by the concept of medieval literature. These are features that distinguish it from the classical one (Augustine, Boethius). Medieval Latin Literature. Formation of Modern National Literatures; genres and new elements they introduce. Studies of the culminating works and authors: Beowulf, Chaucer, "The Song of Roland". "Le Romano de la Rose", Tristan und Isolde, "Parsifal", "The Song of the Nibelungs". The Italian Trecento: Dante, Petrarch and Boccaccio. Literature of the Humanism and Pre-Renaissance period. Face-to-face, hybrid and online course.

LITE 3081 - Workshop: Theory and Practice of the Short Story

Three credits. Three hours of workshop per week. Prerequisite: permission from the teacher or principal.

It will attend to the theoretical and practical training of current and future cultivators of the story. It will include a historical review of the genre in various Western literatures (Spanish, Latin American, Italian, Russian, English and French) and an analysis of its formal and thematic evolution in various historical periods. Special attention will be paid to the diversity of techniques that characterize the genre in the current era, as well as its relationships with other genres. The students' creative work will be discussed in seminar-type sessions. The workshop is offered mainly for students who have already started in storytelling, and it is recommended that they interview at the literature office before enrolling.

LITE 3082 - Workshop: Theory and Practice of the Short Story

Three credits. Three hours of workshop per week. Prerequisite: permission from the teacher or principal.

It will attend to the theoretical and practical training of current and future cultivators of the story. It will include a historical review of the genre in various Western literatures (Spanish, Latin American, Italian, Russian, English and French) and an analysis of its formal and thematic evolution in various historical periods. Special attention will be paid to the diversity of techniques that characterize the genre in the current era, as well as its relationships with other genres. The students' creative work will be discussed in seminar-type sessions. The workshop is offered mainly for students who have already started in storytelling, and it is recommended that they interview at the literature office before enrolling.

LITE 3095 - Currents of European Romanticism

Three credits. Three hours of lecture a week.

Investigation of the sources and development of Romanticism and the paths it followed across Europe.

LITE 3101 Literary Theory I

Three credits. Three hours of lecture a week.

It proposes to offer the student a careful and detailed analysis of modern and contemporary theories, of the currents of literary and poetic criticism of our time and of that which precedes it. It will also extend its attention to recent literary studies (analytical, aesthetic and comparative). Face-to-face, hybrid and online course.

LITE 3102 Literary Theory II

Three credits. Three hours of lecture a week.

It proposes to offer the student a careful and detailed analysis of modern and contemporary theories, of the currents of literary and poetic criticism of our time and of that which precedes it. It will also extend its attention to recent literary studies (analytical, aesthetic and comparative). Face-to-face, hybrid and online course.

LITE 4015 Literature as a Source of Historical Research

Three credits. Three hours of lecture a week.

Seminar to develop the ability to use literary sources for historical research and to assimilate from literary research the techniques of contemporary historical methodology. Face-to-face, hybrid and online course.

LITE 4036 - The Antillean Novel: Myths and Reality

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

A typology of the Antillean novel based on the study of language, myths and themes.

LITE 4037 Literature and Medicine in the Middle Ages

Three credits. One and a half hours of discussion and one and a half hours of lectures per week.

This course will investigate medieval literary and medical practices and discourses. It will emphasize medieval literary depictions of a variety of healing practices: medical, astrological, spiritual, and others. Medieval and modern discourses of illness and healing will be contrasted to reflect on the historical and cultural contexts around medical knowledge and practices from different eras and cultures. Face-to-face, hybrid and online course.

LITE 4046 - History and Epic Poetry

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

Comparative study of the stages in the formation of social values in the West in the light of great epic poems.

LITE 4056 - Humanities in Action

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Seminar with variable content and based on the study of audiovisual and performance languages: cinema, television and ceramics: theatre, dance, plastic arts, music, aimed at reflecting on the humanistic disciplines and their meaning in today's world. Each time it is offered, it will deal with different topics.

LITE 4080 Gender Issues 1: The Detective Story

Three credits. Three hours of lecture a week.

Origins and development of the detective story from Poe to Borges; special attention to the problems of literary theory it raises, e.g. The specialization of the story and narrative structures. This course replaces LITE 5068. Face-to-face, hybrid and online course.

LITE 4086 - The Comic Vision

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011- 3012.

Study of the theory and practice of comedy in theatre and modern narrative including its themes, techniques, characters and ideological perspectives.

LITE 4105 - Analysis and Interpretation of Literary Texts

Three credits. Three hours of workshop per week. Prerequisite: One year of literature.

Daily work in class with the analysis and interpretation of literary texts of different genres.

LITE 4111 - Shakespeare, Racine, Calderón

Three credits. Three hours of lecture a week.

A comparative study of three great seventeenth-century dramatists of tragedy and high comedy.

LITE 4112 - Shakespeare, Racine, Calderón

Three credits. Three hours of lecture a week.

A comparative study of three great seventeenth-century dramatists of tragedy and high comedy.

LITE 4121 - Themes of Love in Italian Literature

Three credits. Three hours of lecture a week. Prerequisite: LITE 3051- 3052, 3011-3012.

A panoramic study of love themes in Italian literature as they appear in poetry, drama, novel, etc., from the first imitators of the Provençal troubadours to the twentieth century.

LITE 4122 - Love Themes in Italian Literature

Three credits. Three hours of lecture a week. Prerequisite: LITE 3051-3052, 3011-3012 and LITE 4121.

A panoramic study of love themes in Italian literature as they appear in poetry, drama, novel, etc., from the first imitators of the Provençal troubadours to the twentieth century.

LITE 4131 - European Literature of the Twentieth Century

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011- 3012.

Thematic and formal study of the main authors with special emphasis on the radical social changes reflected in the literature.

LITE 4132 Twentieth-Century European Literature

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011- 3012.

Thematic and formal study of the main authors with special emphasis on the radical social changes reflected in the literature. Face-to-face, hybrid and online course.

LITE 4141 - Thomas Mann

Three credits. It can be repeated up to a maximum of six credits.

Study and annotated reading of Thomas Mann's major works, including short stories and some essays. Special attention will be given to the problem of the novelist and the artist, in general, in the twentieth century. In addition, other themes exclusive to Mann will be emphasized, such as: representation, neo-classicism, the introduction of myth into literature and irony.

LITE 4142 - Thomas Mann

Three credits.

Study and annotated reading of Thomas Mann's major works, including short stories and some essays. Special attention will be given to the problem of the novelist and the artist, in general, in the twentieth century. In addition, other themes exclusive to Mann will be emphasized, such as: representation, neo-classicism, the introduction of myth into literature and irony.

LITE 4152 - Methodology and Literature

Three credits. Three hours of lecture a week.

Texts and research.

LITE 4165 - The Literature of the Enlightenment

Three credits. Three hours of lecture a week.

Study of the most important and representative writers of the eighteenth-century Enlightenment including Voltaire, Diderot, and the encyclopedists Swift, Pope, Lessing, and Rousseau.

LITE 4181 - Current Trends in Literary Criticism

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

An analysis of the current concepts of literary criticism and the various methods applied to literary studies, oriented towards the integration of historical, psychological or aesthetic methods.

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LITE 4182 Current Trends in Literary Criticism

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

An analysis of the current concepts of literary criticism and the various methods applied to literary studies, oriented towards the integration of historical, psychological or aesthetic methods. Face-to-face, hybrid and online COURSE.

LITE 4191 - Contemporary Drama

Three credits.

Thought and Poetry in the European Theatre of Our Time. The return to mythical-religious realities in their subject matter and experimental techniques in dramaturgy and stage interpretation. Works by Claude, Giradaux, Cocteau, Anouilh, Sartre, Camus, Darlach, Kafka, Carrol, Auden and Isherwood, O'Neill, Eliot, Fry and other authors will be studied.

LITE 4192 - Contemporary Drama

Three credits.

Thought and Poetry in the European Theatre of Our Time. The return to mythical-religious realities in their subject matter and experimental techniques in dramaturgy and stage interpretation. Works by Claude, Giradoux, Cocteau, Anouilh, Sartre, Darlach, Kafka, Carrol, Auden and Isherwood, O'Neill, Eliot, Fry and other authors will be studied.

LITE 4201 - Antillean Lyrics and Poetry

Three credits. Three hours of lecture a week.

Introduction to the world of Antillean letters, in general, and poetry, in particular. Comparative table of Antillean literatures in Spanish, French and English. Similarities and differences between the chosen authors will be analysed and particular importance will be given to the critical bibliography, historical sources and analysis of the works.

LITE 4202 Antillean Lyrics and Poetry

Three credits. Three hours of lecture a week.

Introduction to the world of Antillean letters, in general, and poetry, in particular. Comparative table of Antillean literatures in Spanish, French and English. Similarities and differences between the chosen authors will be analysed and particular importance will be given to the critical bibliography, historical sources and analysis of the works. Face-to-face, hybrid and online course.

LITE 4211 - The Experimental Novel

Three credits. Three hours of lecture a week.

Study of the development of the avant-garde novel during the last twenty years, highlighting the productions of France, Spain, Italy and Latin America.

LITE 4212 - The Experimental Novel

Three credits. Three hours of lecture a week.

Study of the development of the avant-garde novel during the last twenty years, highlighting the productions of France, Spain, Italy and Latin America.

LITE 4225 - Black Poetry: Forms and Structures

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011-3012 or teacher's permission.

LITE 4226 The Poetry of the Renaissance: The Sonnet

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011-3012, 3101.

Study and analysis of the structure and themes of the main sonnets of the canzoniere of "Petrarch", with a further focus on his imitators in Italy, France, Spain and England. Face-to-face, hybrid and online course.

LITE 4241 - Seminar on Comparative Literature

No Credit. Three hours a week.

Seminar course in which, on the one hand, history is studied and, above all, the questions and debates of the discipline of comparative literature. On the other hand, a theme, an approach, a genre or an era is studied that is structured and analyzed from a comparative perspective. Both aspects prepare the student to formulate a comparative working hypothesis and a proposal that will serve as the basis for their baccalaureate thesis.

LITE 4242 - Seminar on Comparative Literature

No Credit. Three hours a week.

During the second part of this course, the student must apply the knowledge and skills developed throughout the concentration, especially those that were emphasized in the first part of the course. Their training will be evidenced in the preparation of a thesis, a final requirement for graduation.

LITE 4245 - Evolution of the Ancient Novel

Three credits. Three hours of lecture a week. Prerequisites: LITE 3011 and LITE 3012.

A panoramic course that explores the ancient Greco-Roman novel, its narratives, its themes, its resources, its socio-cultural environment and its audience, among other aspects, and its role in the development of later narrative forms, from the Middle Ages to the present day. He ventures into literary and cinematographic narrative forms.

LITE 4255 Symbolist Movements in Modern Poetry

Three credits. Three hours of lecture a week.

Origins, Masters, and Theories of French Symbolism; its influence, across Europe. Face-to-face, hybrid and online course.

LITE 4265 - Literature and Colonialism in the Americas

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011-3012 or teacher's permission.

Impact of the Phenomenon of Colonialism on the Literature of Colonizers and Colonized in the Americas. Special interest will be paid to the West Indies from the time of discovery to the present day.

LITE 4275 - Hero and Anti-Hero: Evolution of Modern Man

Three credits. Three hours of lecture a week.

The literary development of the ambiguous, contradictory, and complex personality of modern man in European literature of the seventeenth and eighteenth centuries.

LITE 4281 - The Renaissance in Renaissance Literatures

Three credits. Three hours of lecture a week.

A search for Renaissance man's thinking about himself and his own achievements as reflected in Italian, Portuguese and Spanish literatures from the 15th to the 17th centuries.

LITE 4282 - The Renaissance in Renaissance Literatures

Three credits. Three hours of lecture a week.

A search for Renaissance man's thinking about himself and his own achievements as reflected in Italian, Portuguese and Spanish literatures from the 15th to the 17th centuries.

LITE 4285 MARRIAGE, LOVE, AND VIOLENCE IN PRE-MODERN EUROPE

Three credits. Three hours of lecture a week.

Study of marriage and pre-modern amorous expressions and their relationship to power and violence in late medieval, Renaissance and Baroque texts.

LITE 4295 - Socio-Semiolinguistic Literary Research of Narrative

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011- 3012.

Systematic theoretical analysis of literary research based on the latest contributions of: Benveniste, Todorov, Lotman, Hendricks, Van Dijk, Prott, Petosi. This analysis integrates linguistics, literature with sociology, psychology, and anthropology.

LITE 4301 - Nineteenth-Century Drama from Classicism to Naturalism

Three credits. Three hours of lecture a week.

A view of the major literary and philosophical currents in nineteenth-century European drama, from Goethe's "Gotz von berlichingen" to Strindberg's "Ghost Sonata."

LITE 4302 - Nineteenth-Century Drama from Classicism to Naturalism

Three credits. Three hours of lecture a week. Prerequisite: LITE 4301.

A view of the major literary and philosophical currents in nineteenth-century European drama, from Goethe's "Gotz von Berlichingen" to Strindberg's "Ghost Sonata."

LITE 5005 - The Baroque Theatre

Three credits. Three hours of lecture a week. Prerequisite: 4th year high school students or graduates with permission from the principal.

Interdisciplinary study of the main English, Spanish, French and German dramatic texts of the seventeenth century, as well as various descriptions of the relevant performances.

LITE 5006 The Modern Tale

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

Theoretical and practical study on the genre of the short story and its evolution. Face-to-face, hybrid and online course.

LITE 5007 - Post-Brechtian Theatre: Theory, Texts and Productions

Three credits. Three hours of lecture a week.

Study of the theory and significant works of the German playwright Bertolt Brecht and its impact on contemporary theater.

LITE 5008 Boccaccio, Hita, Chaucer

Three credits. Three hours of lecture a week. Prerequisite: LITE 3061- 3062 or director's permission.

Comparative study of three major collections of late medieval short fiction, "The Decameron", "The Book of Good Love" and "The Canterbury Tales", in their respective social and literary contexts. Face-to-face, hybrid and online course.

LITE 5036 - The Deed of Private Shame

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: LITE 3011, LITE 3012, LITE 3101 or authorization from the department director.

Lecture and discussion course, aimed at advanced undergraduate and graduate students, on an interdisciplinary topic of great humanistic interest: the writing of private shame. It will start with a definition of shame in its traditional sense and then analyze, with the support of key theoretical and critical essays on the concepts of shame and guilt, works of world literature (autobiographies, dramas, novels, short stories, films) in which "writing" a private shame is, explicitly or implicitly, a core issue.

LITE 5038 - Medieval Epic Poetry: Problems of Content and Form

Three credits. Three hours of lecture a week.

Comparative study of "the Iliad", "Odyssey", "Aeneid" and the most famous medieval songs of deeds.

LITE 5040 - Narrative Topics: The Middle Ages

Three credits. Three hours of lecture a week.

Thematic and formal study of the most representative works of the different narrative cycles of the Middle Ages. Emphasis on the Breton cycle.

LITE 5045 - Roman Literature

Three credits. Three hours of lecture a week. Prerequisite: for baccalaureate or master's students with permission from the principal.

Development of Roman literature from the beginning to Cornelius Tacitus.

LITE 5046 - Homer and Virgil

Three credits. Three hours of lecture a week. Prerequisite: LITE 3051-3052, or 3061-3062, or 3011-3012

Analysis and comparative interpretation of the Homeric epics "Iliad" and "Odyssey" and the Virgilian "Aeneid" in view of their morphological and cultural background.

LITE 5047 - The Greek Tragedy

Three credits. Prerequisite: LITE 3051-3052.

Study of the birth, evolution, content and forms of Greek tragedy through its three great masters: Aeschylus, Sophocles and Euripides.

LITE 5055 - Molière and the Comic Tradition

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Comparative study of Molière's comedies against the great representatives of the genre in antiquity: Aristotle, Plato and Terence.

LITE 5065 - From Manuscript to Editing: Problems and Methods

Three credits. Three hours of lecture a week. Prerequisite: for baccalaureate or master's students with permission from the principal.

Introduction to the problems and process of the study of literary manuscripts and editions. It has two aspects: one theoretical and critical; another, practical. Each year one or two problems will be chosen to work as a team and prepare an anthology, an annotated edition, an epistolary, a bilingual edition, etc.

LITE 5066 - Literary Semiotics I: Semiotics of Narrative

Three credits. Three hours of lecture a week.

Introduction to the methodology and analytical practice of one of the branches of literary semiotics, the semiotics of narration, through its most representative exponents: V. Propp, C. Bremond, R. Barthes, T. Todorov, U. Eco, A.J. Greimas, T. Van Dijk.

LITE 5067 - Literary Semiotics II: Post-Structuralist Orientations

Three credits. Three hours of lecture a week. Prerequisite: LITE 5066 or LITE 3101.

Introduction to the methodology and analytical practice of some of the most notable manifestations of literary semiotics of the last decade through the study of its model or representative exponents: Roland Barthes, M. Bakhtin, J. Lacan, J. Kristeva, J. Derrida, B. Johnson, G. Hartman.

LITE 5075 Colonial Representations

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011- 3012, LITE 3101 and director's permission.

Study and analysis of the representation of colonial identity in European and American texts. Face-to-face, hybrid and online course.

LITE 5076 - Post-colonial cultural representation

Three credits. Three hours of lecture a week. Prerequisite: LITE 3011-3012 and LITE 3101.

Interdisciplinary study of the effect of colonialism on the literary and film production of third world cultures.

LITE 5105 - Mythology and Literature

Three credits. Three hours of lecture a week.

Texts and research.

LITE 5231 - The Modern Novel

Three credits. Three hours of lecture a week.

Study and analysis of this literary genre from Balzac to the present day.

LITE 5232 - The Modern Novel

Three credits. Three hours of lecture a week.

Study and analysis of this literary genre from Balzac to the present day.

LITE 5305 Autobiographical Writings: The "I" in Western Narrative

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Examination of the various instances of the "self" in Western narrative. The autobiography, the epistle, the diary, the memoir and the testimony are studied based on a reflection on the problems of the literary genre and the theoretical debates that these so-called "minor texts" have provoked. Both primary and secondary texts are worked on. Face-to-face, hybrid and online course.

LITE 5335 - Aspects of Women's Writing

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Comparative study of the theories about women's writing and the creative texts of European, North American and Latin American women writers.

LITE 5486 - St. John of the Cross, Western and Traditional Semitic Tradition

Three credits. Three hours of lecture a week. Prerequisite: Have a baccalaureate degree or special permit.

Comparative study between St. John of the Cross and medieval and Renaissance European annotated poetry; biblical, Hebrew and Christian exegesis; Qur'anic exegesis and annotated Arabic poetry.

LITE 5487 - St. John of the Cross, Western Tradition and Semitic Tradition

Three credits. Three hours of lecture a week. Prerequisite: Have a baccalaureate degree or permit

MUSI 3011 Music History Panorama

Three credits. Three hours of lecture a week.

Overview of the history of music, with emphasis on the comparative study of musical styles. Of special interest to music education students.

MUSI 3012 Music History Panorama

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3011.

Overview of the history of music, with emphasis on the comparative study of musical styles. Of special interest to music education students.

MUSI 3035 - Music in Recreation

Three credits. Two hours of lecture and one hour of laboratory time per week.

Study of the aspects that are part of the musical education of the individual, such as singing, rhythm, instrumental and auditory experiences, techniques to develop the musical culture of the people through recreational activities.

MUSI 3045 - Music and Musicians of Puerto Rico

Two credits. Two hours of lecture per week.

Puerto Rican works, composers, and performers from the nineteenth century to the present. Lectures illustrated with recordings and by performers.

MUSI 3047 - Dance and Music

Three credits.

A historical overview of dance in all its manifestations: ballet, folkloric, modern and religious. The Influence of Dance on Musical Styles. The course also includes, as a practical component, the study and analysis of dance music composition, in terms of the following aspects: rhythm, melody, phrasing and time counting. Criteria for identifying appropriate music for certain dance genres will also be considered.

MUSI 3055 - The Opera House

Two credits. Two hours of lecture per week.

Study of the most significant operatic works of the different periods, especially those that are generally in repertoire. Course illustrated by audiovisual media.

MUSI 3065 - Music in the Americas

Three credits. Three hours of lecture a week.

A global vision of the musical repertoire of both Americas. Course illustrated by audiovisual media and by performers.

MUSI 3071 - Minor Vocal Group I

A credit. Four hours of lecture per week. Prerequisite: pass audition before the corresponding director.

Regular participation in the activities of one of the following vocal musical groups: concert choir; "choralis sine nomine"; Lyric Theatre Studio. Public performance of the different corresponding repertoires.

MUSI 3072 - Minor Vocal Group II

A credit. Four hours of lecture per week. Prerequisite: MUSI 3071.

Regular participation in the activities of one of the following vocal musical groups: concert choir; "choralis sine nomine"; Lyric Theatre Studio. Public performance of the different corresponding repertoires.

MUSI 3073 - Minor Vocal Group III

A credit. Four hours of lecture per week. Prerequisite: MUSI 3072.

Regular participation in the activities of one of the following vocal MUSIcales groups: concert choir; "choralis sine nomine"; Lyric Theatre Studio. Public performance of the different corresponding repertoires.

MUSI 3074 - Minor Vocal Group IV

A credit. Four hours of lecture per week. Prerequisite: MUSI 3073.

Regular participation in the activities of one of the following vocal musical groups: concert choir; "choralis sine nomine"; Lyric Theatre Studio. Public performance of the various repertoires

MUSI 3075 - Vocal Technique I

A credit. Half an hour of lecture and half an hour of laboratory per week.

This course will be screened in a normal sequence of four semesters. The class schedule will be fixed with the teachers in a special enrolment in the music department during the normal enrolment period. Prerequisite: MUSI 3025.

Individual training in the principles of vocal technique (breathing, vocalization and imposition) and in those of phrasing and style applied to the classical repertoire of art, opera and oratory songs.

MUSI 3081 - Minor Instrumental Group I

A credit. Two hours of lecture per week. Prerequisite: pass audition before the corresponding director.

Regular participation in the activities of one of the following instrumental university musical groups: "collegium musicum"; jazz and popular music orchestra; brass instrument ensemble;

Woodwind Ensemble: Percussion instrument ensemble; University Chamber Orchestra. Public performance of the different corresponding repertoires.

MUSI 3082 - Minor Instrumental Group II

A credit. Two hours of lecture per week. Prerequisite: MUSI 3081.

Regular participation in the activities of one of the following instrumental university musical groups: "collegium MUSIcum"; jazz and popular music orchestra; brass instrument ensemble; woodwind instrument set; percussion instrument ensemble; University Chamber Orchestra. Public performance of the different corresponding repertoires.

MUSI 3083 - Minor Instrumental Group III

A credit. Two hours of lecture per week. Prerequisite: MUSI 3082.

Regular participation in the activities of one of the following instrumental university musical groups: "collegium musicum"; jazz and popular music orchestra; brass instrument ensemble; woodwind instrument set; percussion instrument ensemble; University Chamber Orchestra. Public performance of the different corresponding repertoires.

MUSI 3084 - Minor Instrumental Group IV

A credit. Two hours of lecture per week. Prerequisite: MUSI 3083.

Regular participation in the activities of one of the following instrumental university MUSIcales groups: "collegium MUSIcum"; jazz and popular music orchestra; brass instrument ensemble; woodwind instrument set; percussion instrument ensemble; University Chamber Orchestra. Public performance of the different corresponding repertoires.

MUSI 3085 - Instrumental Technique I

A credit. Half an hour of lecture and half an hour of laboratory per week. This course will be screened in a normal sequence of four semesters. The class schedule will be set with the teachers in a special enrolment that will be carried out in the music department during the normal enrolment period. Prerequisite: MUSI 3025.

Individual training in the principles of technique, phrasing, style, and repertoire of an instrument recognized by the Western tradition of concert music (piano, woodwind, brass, and strings).

MUSI 3095 - World Music

Three credits. Three hours of lecture a week.

An overview of some major areas of world music, including folk, folk, and tribal music. Musical forms, instruments, aesthetics, are research topics with an emphasis on the relationship between music and the cultures of Asia, Africa and Europe.

MUSI 3105 Music in the Twentieth Century

Three credits. Three hours of lecture a week. Prerequisite: MUSI 4025.

The study of the different styles and schools that have developed in Western music during the 20th century. Concentration course in Music for students of the Faculties of Humanities.

MUSI 3115 Diatonic Harmony

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3275

Theoretical, analytical, and practical study of the harmonic vocabulary of the eighteenth century (Bach) with emphasis on the harmonization of choral melodies and analysis of works of the classical style (Mozart and Haydn). Concentration course in Music for students of the Faculties of Humanities and Education.

MUSI 3125 - The Historical Development of Music in Puerto Rico

Three credits. Three hours of lecture a week.

General music course in which the sociocultural aspects of music in Puerto Rican society from the time of Spanish colonization to the present are studied. The different varieties of music will be presented in recordings and live; They will be appreciated and analysed from a historical, ethnomusicological and aesthetic point of view.

MUSI 3145 - Introduction to the Repertoire of Musical Art

Three credits. Three hours of lecture a week.

Introductory course to music aimed at developing the student's skills that allow them to listen to and appreciate music through the study of the basic elements that constitute it. The history of music will be studied in a general way, including the most representative styles and works of each era.

MUSI 3175 - Introduction to Reading and Dictation

Three credits. Three hours of lecture a week.

Introductory course in which the fundamentals of music theory, reading and intonation and dictation are studied.

MUSI 3176 - Introduction to Reading and Dictation II

Three credits. Prerequisite: MUSI 3175.

Music theory, reading and intonation and ear training started in MUSI 3175.

MUSI 3181 - Band I

A credit. Prerequisite: Play a band instrument and read music. Admission through a prior interview with the conductor of the symphonic band.

Participation in the symphonic band of the University of Puerto Rico. Performance of traditional and contemporary repertoire.

MUSI 3182 - Band II

A credit. Prerequisite: Play a band instrument and read music. Admission through a prior interview with the conductor of the symphonic band.

Participation in the symphonic band of the University of Puerto Rico. Performance of traditional and contemporary repertoire.

MUSI 3183 - Band III

A credit. Prerequisite: MUSI 3181-3182. Admission through a prior interview with the conductor of the symphonic band.

Participation in the symphonic band of the University of Puerto Rico. Performance of traditional and contemporary repertoire.

MUSI 3184 - Band IV

A credit. Prerequisite: MUSI 3181-3182, 3183. Admission through a prior interview with the symphonic band conductor.

Participation in the symphonic band of the University of Puerto Rico. Performance of traditional and contemporary repertoire.

MUSI 3201 - Choir I

A credit. Two hours of lecture and special rehearsals per week. Prerequisite: admission through prior interview with the choir director.

Choir of mixed voices and a cappella singing. Study and presentation of choral works. Secular, religious and folk songs.

MUSI 3202 - Choir I

A credit. Two hours of lecture per week. Prerequisite: MUSI 3201. Admission through a prior interview with the choir director.

Choir of mixed voices and a cappella singing. Study and presentation of choral works. Secular, religious and folk songs.

MUSI 3203 - Choir II

A credit. Two hours of lecture and special rehearsals per week.

Continuation of MUSI 3201-3202.

MUSI 3204 - Choir II

A credit. Two hours of lecture and special rehearsals per week.

Continuation of MUSI 3201-3202.

MUSI 3211 - Choir III

A credit. Two hours of lecture and special rehearsals per week.

Continuation of MUSI 3203-3204.

MUSI 3212 - Choir III

A credit. Two hours of lecture and special rehearsals per week.

Continuation of MUSI 3203-3204.

MUSI 3235 - Music Appreciation

Two credits. Two hours of lecture per week.

Music as a source of aesthetic enjoyment. Musical genres and forms: folk songs, fugue, sonata, symphony, and other musical compositions.

MUSI 3275 Reading and Dictation I

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3176

Intensive study of the essential elements of music through the study of theory and music theory, and ear training. Course of concentration in Music, Faculty of Humanities and Faculty of Education.

MUSI 3276 - Basic Piano I

A credit. Two hours of lecture per week. Prerequisites: MUSI 3176 or mastery of the material shown through examination to be administered by the department's faculty committee. Co-requirement: MUSI 3275.

Study of harmonization using primary chords, progressions, basic chords (tonic, sub-dominant, dominant), major scales, improvisation, sight-reading and repertoire. Aimed at music concentration students with little or no experience playing piano. His methodology includes lectures and practice of piano skills. (Replaces MUSI 3001-3002)

MUSI 4003 - Basic Piano II

A credit. Two hours of lecture per week. Prerequisite: MUSI 3276. Corequisite: MUSI 4061.

Development of skills started in basic piano I, up to an intermediate level. It encompasses the study and refinement of major and minor scales, seventh chords, harmonization using mainly primary and secondary chords, improvisation, modes and other scales, sight-reading, and repertoire. His methodology includes lectures and practice of piano skills.

MUSI 4004 Basic Piano III

A credit. Two hours of lecture per week. Prerequisite: MUSI 4003

Development of the skills learned in Basic Piano II and the expansion of them in the areas of technique, repertoire, sight-reading, harmonization and improvisation.

MUSI 4005 Basic Piano IV

A credit. Two hours of lecture per week. Prerequisite: MUSI 4004

Development of the skills learned in Basic Piano III and the expansion of them in the areas of technique, repertoire, sight-reading, harmonization and improvisation.

MUSI 4015 - Music in the Baroque and Classicism

Three credits. Three hours of lecture per week and a supervised audition. Prerequisite: MUSI 3275.

Study of the music of the seventeenth and eighteenth centuries with special importance in the stylistic analysis of selected works. The course will be illustrated by audio-visual media and will be required for music concentration students.

MUSI 4025 - Music in Romanticism and Impressionism

Three credits. Three hours of lecture a week. Prerequisite: MUSI 4015.

Study of the music of the 19th and 20th centuries with special importance in the stylistic analysis of selected works.

MUSI 4035 - Music in the Middle Ages and the Renaissance

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3275 and 4025.

Study of music from Gregorian chant to English madrigal, with special emphasis on the stylistic analysis of selected works.

MUSI 4041 - Minor Vocal Group V

A credit. Four hours of lecture per week. Prerequisite: MUSI 3074.

Regular participation in the activities of one of the following vocal musical groups: concert choir; "Choralis sine nomine": Lyric Theatre Studio. Public performance of the different corresponding repertoires.

MUSI 4042 - Minor Vocal Group VI

A credit. Four hours of lecture per week. Prerequisite: MUSI 4041.

Regular participation in the activities of one of the following vocal musical groups: concert choir; "choralis sine nomine"; Lyric Theatre Studio. Public performance of the different corresponding repertoires.

MUSI 4043 - Minor Vocal Group VII

A credit. Four hours of lecture per week. Prerequisite: MUSI 4042.

Regular participation in the activities of one of the following vocal musical groups: concert choir; "choralis sine nomine"; Lyric Theatre Studio. Public performance of the different corresponding repertoires.

MUSI 4044 - Minor Vocal Group VIII

A credit. Four hours of lecture per week. Prerequisite: MUSI 4043.

Regular participation in the activities of one of the following vocal musical groups: concert choir; "choralis sine nomine"; Lyric Theatre Studio. Public performance of the different corresponding repertoires.

MUSI 4045 - Vocal Technique II

A credit. Half an hour of lecture and half an hour of laboratory per week.

Prerequisite: MUSI 3275.

This course will be screened in a normal sequence of four semesters. The class schedule will be fixed with the teachers in a special enrolment in the music department during the normal enrolment period. Individual training in the principles of vocal technique (breathing, vocalization and imposition) and in those of phrasing and style applied to the classical repertoire of art, opera and oratory songs.

MUSI 4055 - Instrumental Technique II

A credit. Half an hour of lecture and half an hour of laboratory per week.

Prerequisite: MUSI 3275.

This course of study will be projected in a normal sequence of four semesters. The class schedule will be fixed with the teachers in a special enrolment in the music department during the normal enrolment period. Individual training in the principles of technique, phrasing, style, and repertoire of an instrument recognized by the Western tradition of concert music (piano, woodwind, brass, and strings).

MUSI 4061 Reading and Dictation II

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3275.

Study of the rhythmic and melodic problems contained in the works of composers. Analysis, intonation, interpretation and dictation of elements of musical syntax representative of the various styles. Melodic, rhythmic and harmonic dictations. Sight-reading in all keys. Course of concentration in Music, Faculty of Humanities and Faculty of Education.

MUSI 4062 Reading and Dictation III

Three credits. Three hours of lecture a week. Prerequisite: MUSI 4061

Third semester of theory. Study of the rhythmic and melodic problems contained in the works of composers. Analysis, intonation and interpretation, melodic, rhythmic and harmonic dictations. Reading intoned at first sight in all keys. Course of concentration in Music, Faculty of Humanities and Faculty of Education.

MUSI 4063 - Reading and Dictation IV

Two credits. Two hours of lecture per week. Prerequisite: MUSI 4062.

Fourth semester of theory, including advanced melodic and harmonic reading and dictation. Recommended for students of concentration in music.

MUSI 4071 - Choir IV

A credit. Two hours of lecture and special rehearsals per week.

Continuation of MUSI 3211-3212.

MUSI 4072– Choir IV

A credit. Two hours of lecture and special rehearsals per week.

Continuation of MUSI 3211-3212.

MUSI 4081 - Minor Instrumental Group V

A credit. Two hours of lecture per week. Prerequisite: MUSI 3084.

Regular participation in the activities of one of the following instrumental university musical groups: "collegium musicum"; jazz and popular music orchestra; brass instrument ensemble; Woodwind Ensemble; Percussion instrument ensemble; University Chamber Orchestra. Public performance of the different corresponding repertoires.

MUSI 4082 - Minor Instrumental Group VI

A credit. Two hours of lecture per week. Prerequisite: MUSI 4081.

Regular participation in the activities of one of the following instrumental university musical groups: "collegium musicum"; jazz and popular music orchestra; brass instrument ensemble; Woodwind Ensemble: Percussion instrument ensemble; University Chamber Orchestra. Public performance of the different corresponding repertoires.

MUSI 4083 - Minor Instrumental Group VII

A credit. Two hours of lecture per week. Prerequisite: MUSI 4082.

Regular participation in the activities of one of the following instrumental university musical groups: "collegium musicum"; jazz and popular music orchestra; brass instrument ensemble; set of wooden instruments. Percussion instrument ensemble; University Chamber Orchestra. Public performance of the different corresponding repertoires.

MUSI 4084 - Minor Instrumental Group VIII

A credit. Two hours of lecture per week Prerequisite: MUSI 4083.

Regular participation in the activities of one of the following instrumental university musical groups: "collegium musicum"; jazz and popular music orchestra; brass instrument ensemble; Woodwind Ensemble: Percussion instrument ensemble; chamber orchestra of the university Public performance of the various corresponding repertoires.

MUSI 4085 - Musicological Bibliography

Three credits. Three hours of lecture a week. Prerequisite: MUSI 4035, 3115, 4105.

Study of the bibliographic materials of musicological research (such as monumental editions, complete works, facsimiles, thematic indexes, catalogues, etc.) and of its main editorial procedures.

Two credits. Two hours of lecture and one hour of laboratory time per week.

Overview of the history of music, with an emphasis on the comparative study of musical styles. Of special interest to music education students.

MUSI 4095 - Musicology Seminar

Three credits. Three hours of lecture a week. Prerequisite: MUSI 4085.

Introduction to the main topics of Musicology and musical research techniques. Conducting research using primary music sources in archives and collections culminating in the preparation of a monograph.

MUSI 4105 - Modal Tailstock

Two credits. Two hours of lecture and one hour of lab per week. Prerequisite: MUSI 3115 and 4025.

Study of the modal counterpoint of the sixteenth century (Palestinian-style). Exercises in contrapuntal species. Knowledge of double and triple counterpoint and the techniques of imitation, inversion, retrogradation, augmentation, decrease, etc.

MUSI 4115 - Tonal Tailstock

Two credits. Two hours of lecture and one hour of lab per week.

Prerequisite: MUSI 4105.

A study of eighteenth-century harmonic tonal counterpoint (in the style of Bach).

MUSI 4121 - Vocal Technique III

A credit. Half an hour of lecture and half an hour of laboratory per week.

Prerequisite: MUSI 3275.

This course will be screened in a normal sequence of four semesters. The class schedule will be fixed with the teachers in a special enrolment in the music department during the normal enrolment period. Individual training in the principles of vocal technique (breathing, vocalization and imposition) and in those of phrasing and style applied to the classical repertoire of art, opera and oratory songs.

MUSI 4122 - Vocal Technique IV

A credit. Half an hour of lecture and half an hour of laboratory per week.

Prerequisite: MUSI 3275.

This course will be screened in a normal sequence of four semesters. The class schedule will be fixed with the teachers in a special enrolment in the music department during the normal enrolment period. Individual training in the principles of vocal technique (breathing, vocalization and imposition) and in those of phrasing and style applied to the classical repertoire of art, opera and oratory songs.

MUSI 4131 - Instrumental Technique III

A credit. Half an hour of lecture and half an hour of laboratory per week.

Prerequisite: MUSI 3275.

This course will be screened in a normal sequence of four semesters. The class schedule will be set with the teachers in a special enrolment that will be carried out in the music department during the normal enrolment period. Individual training in the principles of technique, phrasing, style, and repertoire of an instrument recognized by the Western tradition of concert music (piano, woodwind, brass, and strings).

MUSI 4132 - Instrumental Technique IV

A credit. Half an hour of lecture and half an hour of laboratory per week.

Prerequisite: MUSI 3275.

This course will be screened in a normal sequence of four semesters. The class schedule will be set with the teachers in a special enrolment that will be carried out in the music department during the normal enrolment period. Individual training in the principles of technique, phrasing, style, and repertoire of an instrument recognized by the Western tradition of concert music (piano, woodwind, brass, and strings).

MUSI 4133 - Instrumental Technique V

A credit. Half an hour of lecture and half an hour of laboratory per week.

Prerequisite: MUSI 4132.

This course will be screened in a normal sequence of four semesters. The class schedule will be set with the teachers in a special enrolment that will be carried out in the music department during the enrolment

period. Individual training in the principles of technique, phrasing, style, and repertoire of an instrument recognized by the Western tradition of concert music (piano, woodwind, brass, and strings).

MUSI 4134 - Instrumental Technique VI

A credit. Half an hour of lecture and half an hour of laboratory per week.

Prerequisite: MUSI 4133.

This course will be screened in a normal sequence of four semesters. The class schedule will be set with the teachers in a special enrolment that will be carried out in the music department during the enrolment period. Individual training in the principles of technique, phrasing, style, and repertoire of an instrument recognized by the Western tradition of concert music (piano, woodwind, brass, and strings).

MUSI 4141 - Instrumental Technique VII

A credit. One hour of lab time per week. Prerequisite: MUSI 4134.

Individual training in the principles of technique, phrasing, style, and repertoire of an instrument recognized by the Western concert music tradition (piano, woodwind, brass, and strings).

MUSI 4142 - Instrumental Technique VIII

A credit. One hour of lab time per week. Prerequisite: MUSI 4141.

Individual training in the principles of technique, phrasing, style, and repertoire of an instrument recognized by the Western concert music tradition.

MUSI 4151 - Vocal Technique V

A credit. Prerequisite: MUSI 3075, 4045, 4121, 4122.

Individual training in the principles of technique, phrasing, style and vocal repertoire.

MUSI 4152 - Vocal Technique VI

A credit. Prerequisite: MUSI 3075, 4045, 4121, 4122.

Individual training in the principles of technique, phrasing, style and vocal repertoire.

MUSI 4153 - Vocal Technique VII

A credit. Prerequisite: MUSI 3075, 4045, 4121, 4122.

Individual training in the principles of technique, phrasing, style and vocal repertoire.

MUSI 4154 - Vocal Technique VIII

A credit. Prerequisite: MUSI 3075, 4045, 4121, 4122.

Individual training in the principles of technique, phrasing, style and vocal repertoire.

MUSI 4155 - Introduction to Instrumentation

Two credits. Two hours of lecture and one hour of supervised audition Prerequisite: MUSI 3115.

Study of musical instruments in general with a view to achieving an auditory recognition of them, their combinations and their special effects, as well as a knowledge of their notation problems.

MUSI 4161 - Orchestration I

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3115, 4155.

Practical study of the problems of instrumental arrangements through written exercises of progressive difficulty, covering from small ensembles to each of the sections of the symphony orchestra.

MUSI 4162 - Orchestration II

Three credits. Three hours of lecture a week. Prerequisite: MUSI 4161.

Continuation of MUSI 4161. The exercises will cover up to the preparation of a complete orchestral score.

MUSI 4175 - Choral Conducting and Vocal Repertoire

Four credits. Four hours of lecture per week. Prerequisite: MUSI 3275 and 3115.

Intensive study of the vocal and musical techniques necessary for the organization of school choirs.

MUSI 4177 - Instrumental Conducting and Score Readings

Three credits. Prerequisite: MUSI 4001, 4045, 4055, 4155.

Traditions and techniques in the direction of instrumental groups. Detailed study of terminology, transport and notation of musical instruments used in traditional and experimental combinations.

MUSI 4185 - V-Band

A credit. Four hours of lecture per week. Prerequisite: MUSI 3184.

Participation in the university's symphonic band. Performance of traditional and contemporary repertoire.

MUSI 4186 - Band VI

A credit. Four hours of lecture per week. Prerequisite: MUSI 4185.

Participation in the university's symphonic band. Performance of traditional and contemporary repertoire.

MUSI 4187 - Band VII

A credit. Four hours of lecture per week. Prerequisite: MUSI 4186.

Participation in the university's symphonic band. Performance of traditional and contemporary repertoire.

MUSI 4188 - Band VIII

A credit. Four hours of lecture per week. Prerequisite: MUSI 4187.

Participation in the university's symphonic band. Performance of traditional and contemporary repertoire.

MUSI 4195 Colour Harmony

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3115

Practical and analytical study of the harmonic vocabulary of the Romantic period. Work on the harmonization of melodies and analysis of selected works from Schubert to Wagner. Course of the concentration in Music, Faculty of Humanities

MUSI 4200 Phenomenology of Popular Music

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3275 and 3115

It analyzes the philosophical, theoretical, and historical foundations of popular music as an original manifestation. This course is elective for Music concentration students from the College of Humanities or Music Education.

MUSI 4201 Chamber Music

A credit. One hour of contact a week. Prerequisite: Instrumental Technique o Member of the sixth semester.

This course will have the opportunity to bring together instrumentalists and singers in various combinations from duets to nonetos. The ensemble will be able to participate in public performances of the corresponding repertoires. This course is a graduation requirement for Music concentration students in the Faculty of Humanities.

MUSI 4205 - Modal Harmony

Two credits. Two hours of lecture and one hour of laboratory time per week.

Practical and analytical study of the post-Romantic and Impressionist harmonic vocabulary, from Mussorgsky to Bartok. Harmonization of melodies characteristic of these styles and analysis of selected works.

MUSI 4215 - Form and Analysis Seminar

A credit. Two hours of lecture per week. Prerequisite: Required for concentration in music.

Analytical study (rhythm, melody, motif, phrase, period, groups and melodic incisions), beginning with the minor forms and encompassing the instrumental forms of the eighteenth and nineteenth centuries. Compositional techniques and stylistic difference.

MUSI 4216 Compositional Technique I

A credit. One hour of contact a week. Prerequisite: MUSI 4195 or teacher's permission.

Individual teaching of the techniques of handling sound material and the principles that govern its structuring. Compositional practice to deepen the acquisition of skills necessary for the mastery of

the different components and parameters that constitute a musical creation. This course is elective for Music concentration students from the College of Humanities or Music Education.

MUSI 4225 - Seminar on Form and Analysis

A credit. Prerequisite: Required for concentration in music.

Analytical study (rhythm, melody, motif, phrase, period, groups and melodic incisions), beginning with the minor forms and encompassing the instrumental forms of the eighteenth and nineteenth centuries. Compositional techniques and stylistic difference.

MUSI 4235 - Great Musical Works and Great Performers of Our Time

A credit. Prerequisite: MUSI 3115 and two courses between 4015-4025 and 4035.

Interpretation of cycles of great musical works by outstanding concert artists of our time, in coordination with a series of explanatory lectures.

MUSI 4241 - Form & Analysis I

Two credits. Two hours of lecture and one hour of laboratory time per week. Prerequisite: MUSI 3001- 3002, 4015, 4061, 3155.

Detailed stylistic analysis of works written in the generally most cultivated musical forms throughout history presented in order of increasing difficulty.

MUSI 4242 - Form & Analysis II

Two credits. Two hours of lecture and one hour of laboratory time per week. Prerequisite: MUSI 3001-3002, 4015, 4061, 3115 and 4241.

Detailed stylistic analyses of works written in the musical forms generally most cultivated throughout history and presented in order of increasing difficulty.

MUSI 4251 - Introduction to Composition

Two credits. Two hours of lecture and one hour of lab per week. Prerequisite: MUSI 4105, 4161, 4205, 4241, 4242.

The student will become aware of the composer's problems when writing original pieces, employing simple forms and small ensembles. The course will allow you to coordinate all the knowledge and skills acquired in the other music theory courses.

MUSI 4252 - Introduction to Composition II

Two credits. One hour of lecture and two hours of laboratory per week. Prerequisite: MUSI 4251.

Musical composition work with emphasis on contemporary techniques including the electro-acoustic medium.

MUSI 4265 - Introduction to Electronic Music

Three credits. An hour and a half of lecture and an hour and a half of laboratory per week. Prerequisite: MUSI 4155 or 4161 and MUSI 4195 or 4241.

The student is familiarized with the use of the synthesizer and with the operation of recorders, control consoles, oscillators, oscilloscopes and other electronic equipment. Class projects consist of the creation of an electronic sound file and the composition of short illustrative pieces.

MUSI 4266 - Electronic Music II

Three credits. Three hours of lecture a week. Prerequisite: MUSI 4265.

Analog system deep learning. Composition within the medium making use of the techniques learned and facing the problem of form. Use, application and interrelation of this music with other arts and media: theatre, dance, visual arts, literature, television, etc.

MUSI 4271 - Experimental Music Workshop I

Two credits. One hour of lecture and three hours of laboratory time per week.

Prerequisite: MUSI 4195, 4045 or 4055.

Study, creation and performance of avant-garde music.

MUSI 4272 - Experimental Music Workshop II

Two credits. One hour of lecture and three hours of laboratory time per week.

Prerequisite: MUSI 4195, 4045 or 4055.

Study, creation and performance of avant-garde music.

MUSI 4305 - El Concertó

Two credits. Two hours of lecture per week. Prerequisite: MUSI 3025, 4061, 3115 and 3011-3012.

Monographic course that traces the chronological development of the form we know today as concertó for soloist and orchestra.

MUSI 4315 - Instrumentation and Harmony in Popular Music

Three credits. Three hours of lecture a week. Prerequisite: MUSI 3115, 4195, 3025, 4061.

Study and practice of the harmonization and orchestration of popular melodies according to professional criteria.

PORT 3031 Intensive Portuguese I

Three credits.

Introductory course to Portuguese with emphasis on language structure and communication. The course pursues communicative competence through the practice of the four functional skills of the Portuguese language (listening, speaking, reading and writing). Requirement: PORT 3031L – Intensive Portuguese Laboratory I (2.5 hours– 0 crs.)

PORT 3032 Intensive Portuguese II

Three credits. (Prerequisite: PORT 3031) Second part of Intensive Portuguese 3031.

Requirement: PORT 3032L – Intensive Portuguese Laboratory II (2.5 hours– 0 crs.)

Introductory course to Portuguese with emphasis on language structure and communication. The course pursues communicative competence through the practice of the four functional skills of the Portuguese language (listening, speaking, reading and writing).

PORT 3033 Intensive Portuguese III

Three credits. (Prerequisite: PORT 3032) Corequisite: PORT 3033L – Intensive Portuguese Laboratory III (1 hour– 0 crs.)

Review of grammatical knowledge using literary selections that will enrich vocabulary and relate the student to the analysis of literary texts. It will alternate with oral and written translation and composition exercises.

PORT 4003 Brazilian Art

Three credits. (Prerequisite: PORT 3033)

Panoramic course of Brazilian art from the Baroque period to the present day. The course is offered entirely in the Portuguese language and tries to relate art to the social, political and religious context of each era. The course is presented in the format of illustrated lectures, organized by themes, connecting eras and relating artists of the past and present.

PORT 4005 Advanced Grammar and Composition

Three credits. (Prerequisite: PORT 3033)

It develops communicative competence written in Portuguese through the study of discursive genres of daily, academic and professional life such as: narration, description, review, letter and dissertation. Language registers, rhetorical strategies, vocabulary and, above all, the grammatical elements necessary for the appropriate elaboration of each discursive genre studied will be addressed. This is an intensive writing course.

PORT 4006 Portuguese Literature I

Three credits. (Prerequisite: PORT 3033)

The course offers an overview of Portuguese literature, from its origins in the 12th century to the 20th century. The first part corresponds to the study of the main literary movements, since the twelfth century, through the discussion and analysis of their representative texts. In the second part, the outstanding authors of contemporary Portuguese fiction are presented.

PORT 4007 Brazilian Cinema and Its Cultural and Social Contexts

Three credits. (Prerequisite: PORT 3033)

The study of the history of Brazilian cinema, from silent cinema to the present day, through different analytical and thematic approaches that concern the society and culture of Brazil and its link with the socio-economic and cultural forces that border on the Brazilian Renaissance and the Caribbean. The filmic context facilitates the study of the everyday use of idiomatic expressions of Brazilian Portuguese. The course follows a chronological criterion.

PORT 4008 Brazilian Literature I

Three credits. (Prerequisite: PORT 3033)

The course is an introduction to literature through the reading of texts ranging from the colonial era, 16th century, to the late 19th century. The study of these periods seeks to stimulate the appreciation of Portuguese in literature and in the context of world literature; and to deepen the knowledge and mastery of the Portuguese language through characteristic texts.

PORT 4010 Independent study in Portuguese

Three credits. (Prerequisite: PORT 3033)

Directed research in the area of Portuguese around themes, theoretical approaches or problems of the discipline, of individual interest. The course may be taken a maximum of two times (6 credits) under different topics.

PORT 4012 Brazilian Literature II

Three credits. (Prerequisite: PORT 3033)

The course proposes a journey through the literary periods from the beginning of the 20th century to the present day in Brazilian literature: pre-modernism, modernism and contemporary literature. Through the selected texts, Brazilian literature will be presented in its socio-cultural, historical and political perspectives. Likewise, the customs and nuances of the Brazilian language and culture will be studied and analyzed.

PORT 4015 Brazilian Culture

Three credits. (Prerequisite: PORT 3033)

In this advanced Portuguese course, you present a panoramic view of Brazil and explore Brazilian cultural diversity across the country's five geographic regions. Relevant cultural manifestations and their main exponents are studied with a historical background and the identification of important social problems. The class includes reading and discussion of texts, oral, written and group work along with the use of audiovisual resources to document and analyze the material addressed. Students develop their critical and investigative skills and aesthetic sensitivity, while improving their comprehension, speaking, reading and writing skills in Portuguese.

PORT 4016 Speaking Techniques

Three Credits (Corerequisite: PORT 3033)

The course develops oral communicative competence in Portuguese in communication situations of daily, academic and professional life such as presentation, review, presentation of documents, argumentative report and debate, based on multimedia documents. The language registers, rhetorical and cultural strategies, vocabulary and grammatical elements required in each situation or discursive genre studied will be addressed. The techniques addressed in each class come from current materials related to the Lusophone world. This is an intensive oral practice course.

PORT 4017 Portuguese for the business world

Three credits (prerequisite: PORT 3033)

This course is aimed at students of the concentration in modern languages with a specialization in Portuguese. This course will develop students' oral, written and cultural skills, based on everyday business communication situations adapted from real sources.

PORT 4020 Marginality in the Brazilian Novel and Short Story

Three credits. (Prerequisite: PORT 3033)

Literary study of Brazilian marginality through short stories and novels. The course is based on the critical analysis of canonical works and authors such as Graciliano Ramos, Clarice Lispector and Jorge

Amado, as well as representative authors of the twentieth century. It is aimed at students of the concentration in modern languages with a specialization in Portuguese.

PORT 4020 Brazilian Sociolinguistics

Three credits. (Prerequisite: PORT 4005)

This advanced course in Brazilian sociolinguistics introduces 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. You will learn about the theoreticians-methodologists of the current known as Variationist Sociolinguistics, with emphasis on the pioneering studies of William Labov. The sociolinguistics of Brazilian Portuguese will allow us to identify the theoretical-methodological principles of variationist sociolinguistics involved in the analysis of the variable rule. You will also study the basic fundamentals of Interactional Sociolinguistics and Brazilian Musical Sociolinguistics. The theoretical and methodological contributions of sociolinguistics to the teaching of Portuguese as a foreign language will be recognized. Finally, the field of language planning and policy will be presented. The course will be offered in the following modalities: face-to-face, hybrid and online.

PORT 4021 Didactics of Portuguese

Three credits. (Prerequisite: PORT 4005)

Advanced Portuguese course in which several existing pedagogical methods for teaching Portuguese as a foreign language will be studied. As a starting point, the different theoretical and practical aspects presented by experts in the didactics of Portuguese will be used. You will learn about the curricular integration of other subjects for playful and innovative teaching. This course aims to provide the student with the basic skills to create or adapt appropriate materials for the corresponding level at which Portuguese will be taught: from Kindergarten to twelfth or A1 to C2 (CEFR). Also, you will get to know the different philosophers and their educational theories, from which you will select the current philosophy used in Puerto Rico for the creation of daily or weekly objectives for the teaching of the main competencies (oral comprehension, written comprehension, oral expression, written expression and interaction). The Puerto Rico Department of Education's Foreign Language Content and Expectations Standards will be studied, used, and applied. The course will be offered in the following modalities: face-to-face, hybrid and online.

PORT 4101 Lusophone African Literatures

Three credits. (Prerequisite: PORT 3033)

This course is an introduction to the study of the literatures of the different countries of Portuguese-speaking Africa— Angola, Moçambique, Cape Verde, Guinea-Bissau and São Tomé e Príncipe – through their history and their different themes. Literature from the colonial period, literature committed to resistance and political liberation, and post-independence literature will be studied. It will reflect on cultural identities and religious differences, racial and gender discrimination, and the relationship between the language of the colonizer and different African languages.

PORT 4102 History of the Portuguese language

Three credits. (Prerequisite: PORT 3033)

In this course, you will study the formation and evolution of the Portuguese language from the Latin language by the proto-Romances up to the formation of modern Portuguese, its expansion throughout the world, its

dialectal diversity in Portugal and Brazil as well as the Portuguese-lexical based Creoles, analysing the history of the Portuguese language at different linguistic levels– phonetic, phonological, morphological, syntactic and lexical.

PORT 4103 Portuguese Literature II

Three credits. (Prerequisite: PORT 3033)

This course is a continuation of the Portuguese Literature I course. Portuguese literature will be studied from the end of the nineteenth century to the contemporary era. The course will address the renewal of poetic language through Cesário Verde and Camilo Pessanha, which leads to the first modernism of the Orpheu generation of Fernando Pessoa and Mário Sá Carneiro; the new realism that emerged in the 1930s; and Surrealism and its influence on Herberto Helder's writing. The course ends with the reading of Saramago's novel *O Ano da Morte* by Ricardo Reis, which revisits the poetic universe of Fernando Pessoa.

PORT 4105 Dictatorship and Oppression in Brazilian Literature

Three credits (Prerequisite: PORT 3033)

Study and analysis of a selection of literary works written and/or published during the period of the military dictatorship in Brazil, i.e. 1964 to 1985. Special attention will be given to the narrative form and the nature of trauma and grief, taking into account the socio-political context within which this literature was produced and subsequently the cinema of that period. It is aimed at students of the concentration in modern languages with a specialty in Portuguese, thus expanding the offer of Brazilian literature of the twentieth century.

PORT 4119 Portuguese Linguistics

Three credits. (Prerequisite: PORT 4005)

This advanced course presents a general reflection on the history and formation of the Portuguese language. The course is based on the different levels of linguistic analysis: phonetics, phonology, morphology, syntax, semantics and pragmatics. Finally, issues of language policy and linguistic variations will be addressed. The course will be offered in the following modalities: face-to-face, hybrid and online.

PORT 4137 Portuguese-Hispanic Cultural Relations

Adopting a transnational and transatlantic approach, this course proposes a journey through the cultural and literary relations between Portugal and Hispanic, Iberian and Ibero-American cultures, from the end of the 19th century and throughout the 20th century. A critical reading of modern Portuguese-Hispanic relations will be offered based on some case studies: Iberianisms, Lusitanisms and Hispanisms at the end of the century; the Hispanic reception of Eugénio de Castro; Fernando Pessoa between America and Spain; the Borgesian reading of Camões; This reading will reveal, on the one hand, the cultural affinities between Portugal, Spain and Latin America, considering their common peripheral condition in the context of global modernity. On the other hand, it will also demonstrate the conflicting conditions of these relations in a post-imperial and decolonial context.

PORT 4216 Advanced Study in Portuguese

Three credits. (Prerequisite: PORT 3033)

Development of communication skills at an advanced level. Course content may vary from semester to semester.

PORT 4217 Contemporary Portuguese Culture

Three credits. (Prerequisite: PORT 3033)

This course is an introduction to Portuguese culture in the 20th century and the beginning of the 21st century, through the reading of poetry and theatre texts, essay reflection and the visualization of fictional and documentary cinema. The study of Portuguese culture in contemporary times also involves the study of the social and political transformations of the country over the last century. The course is aimed at students of the concentration in modern languages with a specialty in Portuguese, complementing the study of Portuguese literature.

PORT 4355 Poetry and Diary in Contemporary Portuguese Literature

This course proposes an interpretative and creative journey through a set of poems and diaries by contemporary Portuguese authors. The purpose is to assess the critical and disruptive potential of the aforementioned minor genres within the framework of the definition of Portuguese literary modernity. The texts will be studied in different blocks – surrealist intervention and freedom; poetry and resistance; the diary as historical memory; the philosophical journal; New Realism and the Urban World; young lyrical and anti-lyrical; daily voyeurism and banality; autofiction and critical prose. Students will be offered the interpretation, translation and elaboration of creative projects that, due to their commercial minority, challenge the contemporary world and its dominant discourses, embodying the critical vocation of modern literature.

PORT 4611 Brazilian Music

Three credits. (Prerequisite: PORT 3033)

In this advanced Portuguese course you will study the history of Brazilian music from the 18th century to the present day. During the semester, the student will learn about the different musical genres, including: modinha, lundu, maxixe, Brazilian tango, choro, marcha, marcha-rancho, frevo, samba, samba-canção, samba choro, samba de breque, samba-enredo, samba maracatu, samba reggae, sertaneja music, baião, bossa nova, canção de protesto, tropicalismo, guarânia brasileira, lambada, funk, axé, carimbo, pagode, forró, Cristã: Gospel or 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. The course can be offered in the following modalities: face-to-face, hybrid and online

RUSSIAN 3001 Intensive Russian I (5 hours– 3 crs.)

Correct: RUSSIAN 3004– Intensive Russian Laboratory I (2.5 hours– 0 crs.)

Elementary Russian course. Grammar, reading and conversation exercises. Writing practice.

RUSSIAN 3002 Intensive Russian II (5 hours– 3 crs.)

(Prerequisite: RUSSIAN 3001) Elementary Russian course. Correct: RUSSIAN 3005– Intensive Russian Laboratory II (2.5 hours– 0 crs.)

Grammar, reading and conversation exercises. Writing practice.

RUSSIAN 3003 Intensive Russian

Three credits. (Prerequisite: RUSSIAN 3002 or equivalent)

Review and extension of Russian grammar. Writing and conversation practice. Reading, translating and explaining texts.

RUSSIAN 4216 Advanced Russian Study

Three credits. (Prerequisite: RUSSIAN 3003)

This is an intermediate Russian and Russian literature course for intermediate-advanced level students. The course provides the student with an intermediate knowledge of Russian grammar, as well as intermediate conversational skills, which will enable him to appreciate Russian literature, history and culture and the way of thinking of the Russian people.

TEAT 3005 - Children's Theatre

Three credits. Three hours of lecture a week.

Studies of the bases and techniques for working with children in dramatic creativity and children's theatre production.

TEAT 3011 - Action I

Three credits. One hour of lecture and two hours of laboratory time per week.

Introduction to the study of acting techniques and development of basic skills through games, improvisations and scenes.

TEAT 3012 - Action II

Three credits. One hour of lecture and two hours of laboratory time per week.

Study and action techniques necessary for the development of the characterization.

TEAT 3015 - Party & Comedy: Teatro Siglo de Oro Español

Three credits. Three lecture hours per week Prerequisite: TEAT 3011, TEAT 3012.

Study of the elements involved in the dramatic creation of the Spanish Golden Age.

TEAT 3025 - Theatre Appreciation

Three credits. Three hours of lecture a week.

Analysis of the different elements that make up a theatrical production.

TEAT 3026-Graphic and Plastic Fundamentals of Scenic Design

Three credits.

The course is intended for the student as an introduction to the concepts, basic skills and practical aspects of visual communication necessary in the field of theatrical design. The course emphasizes the inherent particularities of each discipline within theatrical design: costumes, set design and lighting.

This course is offered in face-to-face, hybrid, and online modalities.

TEAT 3031 - Voice and Diction I

Three credits. One hour of lecture and two hours of laboratory time per week.

Introduction to the study of diction and development of basic breathing, voice, projection, posture, pronunciation skills through exercises and scenes.

TEAT 3032 - Voice and Diction II

Three credits. Two hours of lecture and one hour of laboratory time per week.

Continuation course of study and practice of voice and diction according to the dramatic text.

TEAT 3101 - History of the Theatre I

Three credits. Three hours of lecture a week.

Introduction to the development of theatre from Greece to the present day: authors, plays and representative literary movements.

TEAT 3102 - History of the Theatre II

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3101.

Introduction to the development of theatre from Greece to the present day: authors, plays and representative literary movements.

TEAT 3115 - History of Scenographic Art

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

An introductory course to the history of scenographic art from its origins to the present.

TEAT 3125 - Theatrical Makeup

Three credits. Three hours of lecture a week.

Study and practice of theatrical make-up with special emphasis on its application and use in theatrical characterization.

TEAT 3131 - Declamation and Expressive Reading

Three credits. Three hours of lecture a week.

General Principles of Recitation and Declamation. Expressive reading and different theatrical styles. Stage pronunciation.

TEAT 3132 - Declamation and Expressive Reading

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3131.

General Principles of Recitation and Declamation. Expressive reading and different theatrical styles. Stage pronunciation.

TEAT 3145 - Puerto Rican Theater Panorama

Three credits. Three hours of lecture a week.

Study of the Puerto Rican theatrical movement from its beginnings to the present. Origin and development of Puerto Rican dramatic literature representative of the different periods.

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TEAT 3161 - Pantomime I

Three credits. One hour of lecture and two hours of laboratory time per week.

Study and development of the body as an instrument of expression. Study and practice of the technique of the same.

TEAT 3162 - Pantomime II

Three credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: TEAT 3161.

Study and development of pantomime skills through exercises and improvisations.

TEAT 3171 - Puppet Workshop I

Three credits. Two hours of lecture and two hours of laboratory time per week.

Theory and practice of puppet theatre.

TEAT 3172 - Puppet Workshop II

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3171.

Theory and practice of puppet theatre.

TEAT 3181 - Experimental Theatre Workshop I

Three credits. Three hours of lecture and six hours of laboratory time per week. Prerequisite: Audition.

Planning, organizing, and operating experimental theater groups in the community or school. It includes work on the assembly of an experimental production.

TEAT 3182 - Experimental Theatre Workshop

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3181.

Planning, organizing, and operating experimental theater groups in the community or school. It includes work on the assembly of an experimental production.

TEAT 3191 - Introduction to Theatrical Production

Three credits. Two hours of lecture and three hours of laboratory work per week.

Theory and practice of theatrical production. Participation in the different phases of a production: costumes, make-up, set design, lighting, props, etc.

TEAT 3192 - Introduction to Theatrical Production

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: TEAT 3191.

Theory and practice of theatrical production. Participation in the different phases of a production: costumes, make-up, set design, lighting, props, etc.

TEAT 3301 - Contemporary Dance for Actors I

Three credits. One hour of discussion and two hours of supervised practice. Prerequisite: Time to attend artistic activities outside the venue.

Theory and practice of contemporary dance aimed at drama students. Introduction to the process of observation, recognition and control of the body in space combined with strategies for the creation of movements and gestures on stage.

TEAT 3302 - Contemporary Dance for Actors II

Three credits. One hour of discussion and two hours of supervised practice. Requirement: TEAT 3301.

Theory and practice of contemporary dance aimed at drama students. Introduction to the process of observation, recognition and control of the body. In the space combined with strategies for the creation of movement and gestures on stage.

TEAT 4005 - Theory of Drama

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Study of theories about drama and their implications.

TEAT 4006 - Theory and Practice of Theatre Criticism

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3101- 3102, 3025.

History and development of critical processes in the theatre arts: their function, their area of action, their ethical values, their effects. Practice writing through labs.

TEAT 4018 - Choreographic Staging of the Stage Production

Three credits. Three hours of practice a week.

Choreographic staging of a stage production that may vary each semester.

TEAT 4026 - Advanced Theatrical Makeup

Three credits. One hour of lecture and two hours of laboratory time per week.

Advanced techniques in the application and design of theatrical makeup. Emphasis on the creation of new methods.

TEAT 4031 - Action III

Three credits. One hour of lecture and two hours of laboratory per week. Prerequisite: TEAT 3011-3012.

Dramatic interpretation, characterization.

TEAT 4032 - Action IV

Three credits. One hour of lecture and two hours of laboratory per week. Prerequisite: TEAT 3001-3012, TEAT 4031.

Dramatic interpretation, characterization.

TEAT 4038-Stage Combat

Three credits. An hour and a half of lecture and an hour and a half of workshop per week.

Prerequisite: TEAT 3011 and TEAT 3012 This course aims to familiarize the student with the purposes and fundamentals of stage combat, safety in handling instruments for these purposes, and stage performance.

TEAT 4041 - Voice and Diction III

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

Prerequisite: TEAT 3031-3032.

Practice in stage diction as a means of characterization.

TEAT 4042 - Voice and Diction IV

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

Prerequisite: TEAT 3031-3032, TEAT 4041.

Practice in stage diction as a means of characterization.

TEAT 4051 - Pantomime III

Three credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: TEAT 3161-3162.

Study and practice of the pantomime technique acquired in courses I and II based on the characterization of characters in plays.

TEAT 4052 - Pantomime IV

Three credits. One hour of lecture and two hours of laboratory time per week.

Prerequisite: TEAT 3161-3162.

Continuation course of the study and practice of the art of pantomime in the characterization of characters in plays.

TEAT 4054 - Pantomime VI

Three credits. Three hours of lecture a week.

Advanced instruction in the techniques of the art of pantomime and their application through imaginative exercises.

TEAT 4058 - Bilingual Theatrical Production

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

Prerequisites: 4 to 6 credits of hands-on theatre such as TEAT 3011-12 (acting), TEAT 4101-01 (costumes), TEAT 4211-12 (directing), etc. or by consent of the teacher. One of the following English courses: English 3103-04, English 3011-12, level 5. Placement test in the English department or an appropriate accommodation at an advanced level in English.

This elective course is designed to introduce students to the process of creating a bilingual theatrical production, starting with the study of a text. The text you select can be written in Spanish or English and will be translated into the other language. The students will use both Spanish and English librettos in their participation to dramatize them in a complete production. They will be able to

participate as actors, assistant director, stage manager, costume designers, set designers, playwright and promoters. At the same time, they must keep a diary and make a final written report of their semester activities to stage the text and its translation. The course will culminate in a production of the selected drama and its translation. This course is equivalent to INGL 4058.

TEAT 4061 - Introduction to Technical Production I

Three credits. Two hours of lecture and three hours of lab per week.

Prerequisite: TEAT 4131 and TEAT 4132.

Theory and practice of the construction of theatrical scenography. Participation in the preparation and assembly of sets for the productions of the drama department.

TEAT 4062 - Introduction to Technical Production II

Three credits. Two hours of lecture and three hours of lab per week

Prerequisite: TEAT 4061.

Theory and practice of the construction of theatrical scenography. Participation in the preparation and assembly of sets for the productions of the drama department.

TEAT 4075: Stage Manager

Three credits, one hour of lecture and two hours of laboratory time per week.

Prerequisite: TEAT 3025

Introduction to the work of the stage manager. The course will concentrate on the organizational, administrative, practical, and production aspects necessary for the realization of a theatrical production. This course will be offered in face-to-face, hybrid, and online modalities.

TEAT 4081 - Travelling Theatre I

Three credits. Conference hours by arrangement. Prerequisite: Audition.

Study and practice of staging, performing and presenting theatrical works aimed at an audience in and outside a theatrical structure or building.

TEAT 4082 - Travelling Theatre II

Three credits. Conference hours by arrangement. Prerequisite: TEAT 4081.

Study and practice of assembling, performing and presenting theatrical works aimed at an audience in and outside a theatrical structure or building.

TEAT 4095 - Introduction to Dramaturgy

Three credits. Three hours of lecture a week. Prerequisite: Teacher's

Permit or TEAT 3101- 3102.

Introduction to the Study of Playwriting: A Search for Material and Forms Appropriate to the Art and Technique of Playwriting.

TEAT 4101 - Costume Design I

Three credits. Two hours of lecture and three hours of laboratory work per week.

Study of the history of costume from the Stone Age to the 15th century: analysis of text and character using design elements.

TEAT 4102- Costume Design II

Three credits. Two hours of lecture and three hours of lab per week.

Prerequisite: Teat 4101

Theory and practice of the design, cutting and making of theatrical costumes. I work in the costumes for the productions of the Drama Department. This course is offered in face-to-face, online, and hybrid modalities.

TEAT 4111 - Dramatic Activities

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

The course consists of exercises, improvisations, theatrical games and theater projects in order to stimulate the creative capacity of its members and provide the resources for them, in turn, to recognize and stimulate it in others. Its implementation in existing programmes in elementary or secondary education, social services and recreation will be encouraged.

TEAT 4112 - Dramatic Activities

Three credits. Three hours of lecture a week. Prerequisite: Director's Permit, TEAT 4111.

The course consists of exercises, improvisations, theatrical games and theater projects in order to stimulate the creative capacity of its members and provide the resources for them, in turn, to recognize and stimulate it in others. Its impact on existing elementary or secondary education, social services, and recreation programs will be encouraged.

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TEAT 4115 - Acting Styles

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisite: TEAT 3011-3012 and TEAT 4031-4032.

^{Herself} They will study different styles of acting through the rehearsal of representatives.

Scenes from construction sites

TEAT 4125 - Avant-garde Theatre

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3101-3102 or equivalents.

Study and analysis of authors and representative works of avant-garde theatre in Europe and America.

TEAT 4131 - Set Design I

Three credits. Two hours of lecture and three hours of laboratory work per week.

Study of the basic elements in the design of the set for experimental productions in the drama department.

TEAT 4132 - Set Design II

Three credits. Two hours of lecture and three hours of lab per week.

Prerequisite: TEAT 4131.

Study of the basic elements in the design of the scenography for the experimental productions of the drama department.

TEAT 4133 - Theory of Stage Space

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

The course is presented to the student as a reflection and analysis of the different approaches that have the concept of space, together with the concept of scenic space and scenographic space today. Through the course, the student will delve into key theoretical concepts in scenic design in graduate courses. This course is offered in face-to-face, hybrid, and online modalities.

TEAT 4135 - Medical Theatricalities

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

An interdisciplinary course in which theatre and acting techniques allow students to explore the medical humanities and health in order to develop basic knowledge relevant to them; empathy and ethical sensitivity in the medical environment, body awareness, communication skills, observation, self-reflection, textual analysis, and verbal and non-verbal language analysis.

TEAT 4141 - Dell ' Art Comedy I

*Three credits. Two hours of lecture and two hours of lab per week.
Prerequisite: TREAT 3161 and TEAT 3162.*

History, technique and style of the "commedia dell" arte. It includes hands-on work in training this style of acting.

TEAT 4142 - Dell ' Art Comedy II

*Three credits. Two hours of lecture and two hours of lab per week.
Prerequisite: TEAT 4141.*

History, technique and style of the "commedia dell'arte". It includes hands-on work in training this style of acting.

TEAT 4155 - Ibsen, Strindberg, Chekhov

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3101- 3102 or prior consultation with the teacher.

Intensive study of representative works by these authors and their contribution to modern drama (seminar type).

TEAT 4165 - Pirandello a Genet

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3101-3102 or teacher's permission.

Study of the representative works of European theatre from Pirandello to Genet.

TEAT 4175 - The Actor in Theatre, Film and TV

Three credits. Three hours of lecture a week. Prerequisite: TEAT 3011-3012, 3031-3032, and 3161-3162.

Comparative course for actors on the different acting techniques in theatre, film and television.

TEAT 4185 - Drama and Revolution

Three credits. Three hours of lecture a week. Prerequisite: prior consultation with the teacher.

An examination of the relationship between theatre and the socio-political conditions that have influenced drama. Special emphasis on drama as a literary work and historical document. The course covers everything from Greek drama to Puerto Rican drama.

TEAT 4195 - Pantomime V

Two credits. Three hours of lecture a week. Prerequisite: TEAT 3161- 3162 and 4051-4052.

Advanced instruction in the techniques of the art of pantomime and their application through intensive exercises.

TEAT 4201 - Lighting I

Three credits. Two hours of lecture and three hours of laboratory work per week.

Introductory course on the handling and installation of lighting equipment for a play. Study of the basic elements of the design of a lighting plan.

TEAT 4202 - Lighting II

Three credits. Two hours of lecture and three hours of lab per week.

Prerequisite: TEAT 4201.

Introductory course on the handling and installation of lighting equipment for a play. Study of the basic elements of the design of a lighting plan.

TEAT 4211 - Stage Direction I

Three credits. Two hours of lecture and three hours of lab per week.

Prerequisite: TEAT 3101-3102, 3191-3192.

Theory and practice of the fundamentals of stage direction.

TEAT 4212 - Stage Direction II

Three credits. Two hours of lecture and three hours of lab per week.

Prerequisite: TEAT 3101-3102, 3191-3192, 4211.

Theory and practice of the fundamentals of stage direction.

TEAT 4221 - Stage Direction for Teachers

Three credits. Three hours of lecture and workshop per week. Prerequisite:

TEAT 3101-3102, 3191-3192.

Theory and practice of the fundamentals of stage direction. Course designed for teachers.

TEAT 4222 - Stage Direction for Teachers

Three credits. Three hours of lecture and workshop per week. Prerequisite:

TEAT 3101-3102, 3191- 3192, 4221.

Theory and practice of the fundamentals of stage direction. Course designed for teachers.

TEAT 4235 - Costume Design

Three credits. One hour of lecture and three hours of workshop-practice per week. Prerequisite: TEAT 3101, TEAT 3102, TEAT 4101, and TEAT 4102.

Study, technique and practice of the historical costume pattern for the stage. Analysis and use of materials and method of dyes for textiles.

TEAT 4805 - Independent Studies in Drama Seminar

Three credits. Three hours of lecture and workshop per week.

The seminar may be taken in any of the theatrical branches whose courses are taught within the curriculum of the drama department. The project that is developed may be of a research or creative nature.

FACULTY OF NATURAL SCIENCES

Dean: Dr. Néstor M. Carballeira Cabranes

Associate Dean for Academic Affairs: Dr. Julia Vélez González

Assistant Dean of Student Affairs: Prof. Agnes Vázquez Morales

Assistant Dean of Graduate Programs: Valentin Keyantu

Assistant Dean of Administration: Carlos Pereira

Department of Biology: Dr. Carmen Maldonado Vlaar

Interdisciplinary Program: Dr. Elizabeth A. Dvorsky Sosa

Nutrition and Dietetics Program: Dr. Brenda Toro Enríquez

Department of Physics: Dr. José F. Nieves Vázquez

Department of Mathematics: Dr. María Pérez Hernández

Department of Computer Science: Dr. Remi Megret

Department of Chemistry : Dr. Liz Díaz

Department of Environmental Sciences: Dr. Jess K. Zimmerman Earp

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ACCREDITATIONS

The undergraduate program of the Department of Chemistry is certified by the ACS (American Chemical Society). Students in the Program receive a certificate from this Society and are eligible for membership if they meet the requirements.

The Bachelor's Degree in Nutrition and Dietetics is accredited by the ACEND (Accreditation Council for Education on Nutrition and Dietetics).

The Computer Science Program is accredited by ABET (Accreditation Board for Engineering and Technology) and CAC (Computing Accreditation Commission).

HISTORY

The Faculty of Natural Sciences is made up of the departments of Biology, Physics, Mathematics, Chemistry, Computer Science and Environmental Sciences; and the Interdisciplinary and Nutrition and Dietetics programs. The emergence of the Faculty of Natural Sciences is part of the Science Program that was created in 1910. It arose on July 16, 1943, when the Higher Council of Education approved an extensive reform program for the University of Puerto Rico.

In 1960, the Council of Higher Education approved the creation of graduate programs for the Master of Science degree in Biology, Physics, and Chemistry, and the Master of Arts degree in Mathematics. In 1970, the degree of Doctor of Philosophy with a specialization in Chemistry, in Science with a specialty in Environmental Maintenance, now Environmental Sciences, was authorized. The programs leading to the degree of Doctor of Philosophy with specialization in Biology and Physical Chemistry were authorized in 1981. In 1989, the degree was renamed from Master of Arts with a major in Mathematics to Master of Science. In 1994, the Bachelor of Science in Computer Science was approved. In 1999-2000, the PhD program in Philosophy with a specialty in Mathematics was approved. The authorization to start a master's degree in Computer Science was in 2022 and a master's degree in Nutrition and Dietetics in 2023.

DEGREES AWARDED

- Bachelor of Science with concentrations in: Computer Science, Interdisciplinary Studies, Biology, Environmental Sciences, Physics, Mathematics, Chemistry and Nutrition, and Dietetics.
- Master of Science with a specialty in Biology, Environmental Science, Computer Science, Physics, Mathematics, Nutrition, and Dietetics and Chemistry.
- PhD in Philosophy with specialties in Biology, Computer Science, Physics-Chemistry, Chemistry, Mathematics and Environmental Sciences.

STUDENT SERVICES

- Teaching Laboratories - 37 teaching laboratories that support the academic offerings of undergraduate courses and are aimed at learning basic laboratory methods and techniques and the application of the scientific method in a practical context.
- Néstor M. Rodríguez Rivera Library, part of the Center for Information and Technology (CITec).
- Counseling services:
 - o Office of Student Affairs of the Dean's Office of Natural Sciences (General Orientation).
 - o Academic Departments and Programs (Academic Evaluation).
- Tutoring Services - tutoring is offered for core courses and other science and mathematics courses, administered by the Center for Information and Technology (CITec).
- Computer Centers or Technology Services for Students is located in the Information and Technology Center (CITec).
- Information and Technology Center (CITec) - integrated library services, computer centers, reproduction of materials, loan of technological equipment, individual and group study rooms are offered.

Student research opportunities (externally funded programs that have been in place for many years)

- **MARC:** Minority Access to Research Careers
- **RISE:** Research Initiative for Scientific Enhancement
- **NeuroID: Neuroscience** Research Opportunity to Increase Diversity
- **PR-LSAMP:** Puerto Rico Louis Stokes Alliance For Minority Participation

RESEARCH CENTRES AND FACILITIES

The faculty's facilities have 75 research laboratories that provide support to research activity with a continuous production and wide dissemination of knowledge, as well as for the education and training of students in various areas of science. In addition, we have the following facilities or centers:

- Vulnerability Analysis and Emergency Response for Small Water Systems
- Arbimon: web-based network for storing, sharing and analysing acoustic information
- AttackPR– Academics and Training for the Advancement of Cybersecurity Knowledge in Puerto Rico
- Center for Materials Characterization (MCC)
- Center for Applied Tropical Ecology and Conservation (CREST-CATEC)
- Center for Renewable Energy and Sustainability
- Puerto Rico Center for Environmental Neuroscience (PRCEN)
- Center for Environmental Nanotechnology Innovation, Research and Education (CIREN)
- Astrophysics Circle of Puerto Rico
- CPATH: Affirming Parallel Computational Thinking in the 4-Year Undergraduate Computer Science Curriculum
- CS Lab– Cybersecurity Lab, Coding Theory
- The MegaProbe Lab– Bioinformatics Laboratory, Cybersecurity
- Emmy Noether Lab
- EnviroMentors
- Campo el Verde Station (Yunque)
- Ease of X-ray Diffraction and Crystallography
- Ease of Confocal Microscopy
- Nanoscopy Facility
- Ease of Monoclonal Antibody Production
- Nuclear Magnetic Resonance Facility
- Facility for Characterization and Synthesis of Speclab Materials
- Sequencing and genotyping facilities
- Herbarium of the University of Puerto Rico, Río Piedras Campus
- IDI-BD2K: Increasing Diversity in Interdisciplinary Big Data for Knowledge
- Animal Care Facility
- Institute of Functional Nanomaterials
- Bioinformatics Laboratory
- Theoretical Physics Laboratory
- Advanced Materials Research Laboratory (SPECLAB)
- Community Tropical Ecology Laboratory (TCEL)
- Museum of Zoology
- PRNets
- Kavita Project
- Puerto Rico Space Grant Consortium
- RC-Lab

READMISSION

To readmit to the Faculty of Natural Sciences, the student must have a minimum GPA of 2.00. Students who were previously classified in our Faculty will have

priority at the time of readmission. The student must have been admitted to the faculty and each case is dealt with individually, through an interview. Subject to room in the different concentrations.

RECLASSIFICATION

First-year student - have passed MATE-3151 (Calculus 1) with A or B. This applies to all concentrations. The requirements for concentrations are as follows:

- Biology— 3.5 GPA and have passed BIOL-3101 or BIOL-3102 or QUIM-3001
- Computer Science— 3.0 GPA.
- Environmental Science— 3.0 GPA and CINA-3005 approved.
- Physics— 3.0 GPA.
- Mathematics— 3.0 GPA.
- Nutrition and Dietetics— requires program approval.
- Interdisciplinary Program— 3.5 GPA and have one of the following courses with your lab with A or B: BIOL-3101, BIOL-3102, QUIM-3001 or FISI-3011-FISI-3013
- Chemistry— 3.5 GPA and have passed QUIM-3001-3002 with A or B.

Sophomores and up – all concentrations require an overall GPA of 3.0 and a GPA in Science and Math of 3.0. The requirements per concentration are as follows:

- Biology GPA: 3.00 Grade Point Average in
Mathematics: 3.00 Mathematics : Calculus I (4 credits, grade C or higher) GENERAL SCIENCES: (8 credits total) BIOL3101-3102 - BIOLOGY I-II (4-4 credits, courses and labs, passed with A or B)

o take combined courses in: BIOL3102
- BIOLOGY II (4 credits, passed with A or B),
QUIM 3001 - CHEMISTRY I (4 credits, with grade of C or higher) and/or FISI 3011 - Physics I and FISI 3013 - lab. (course - 3 credits, lab.- 1 credit, with grades of C or higher)

- Chemistry GPA: 3.00 Average in Math and Sciences: 3.00 Interview with Academic Advisor Required Mathematics: MATE 3151 - Calculus I (4 credits) General Sciences: (Passed with A or B) QUIM 3001-3002 - Chemistry I-II

y its laboratories (4 credits each)

- Physics GPA: 3.00 Grade Point Average in
Mathematics: 3.00 -Interview with the Academic Advisor is required Mathematics: (Passed with A or B) Chapter I (4 credits) Calculus II (4 credits)

- Interdisciplinary Program Grade Point Average: 3.00 Average in Mathematics and Mathematics: 3.00 -Interview with the Program Director is required Mathematics: Calculus I (4 credits) General Grades: (8 credits and labs.) BIOLOGIA I-II (4-4 credits) CHEMISTRY I-II (4-4 credits) FISI 3011-3013 (4 credits) Physics I and lab.

FISI 3012-3014 (4 credits) Physics II and lab.

- Nutrition and Dietetics Grade Point Average: 3.00 Average in Mathematics: 3.00 Math: Precalculus I-I or its equivalent (4 crs.) General Sciences: QUIM GEN I (4 credits) BIOL GEN I- II (1 course of 4 credits) Program approval required
- Computer Science GPA: 3.00 Grade Point Average in Math and Science: 3.00 Math: (Pass with A or B) Calculus I (4 credits) Computer Science (Pass with A or B) CCOM 3020 CCOM 3030
- Mathematics GPA: 3.00 Grade Point Average: 3.00 Interview with Academic Advisor Required Mathematics: (Passed with A or B) Calculus I (4 credits) Calculus II (4 credits)
- Environmental Sciences Overall GPA: 3.00 Average in Mathematics: 3.00 Mathematics: Calculus I (4 credits) General Sciences: (8 credits and labs.) BIOLOGY I-II (4-4 credits) CHEMISTRY I-II (4-4 credits) PHYSICS I-II (4-4 credits)

TRANSFER/STUDENT OUTSIDE THE SYSTEM AND TRANSFER (STUDENTS OF THE UPR SYSTEM)

Applies to all students, including students from other campuses of the UPR System.

- Have a minimum of 30 approved credits.
- 3.0 GPA.
- 3.0 average in science and math

Biology- GPA 3.00, GPA in Science & Math
3.00 Math: Calculus 1 4 crs. With C or more
General Science approved with A or B Biology
I-II and its laboratories (4 credits each part)

Chemistry- GPA 3.00 GPA in Science
& Math 3.00 Math: Calculus I 4 crs.

General Sciences approved with A or B Chemistry
I-II and its laboratories (4 credits each part)

Physics- GPA 2.50 Average in Science &
Math 3.00 Interview with Academic Advisor
Required Math Passed with A or B
Calculus I 4 crs.– Calculus II 4 crs.

Interdisciplinary Program

GPA 3.00 Average in Science and Math 3.00
Interview with the program director of the
program Mathematics: Calculus I 4 crs.

General Sciences 8 crs. (Courses of 4 credits each part and its
laboratories) Biology I-II (4-4 credits) Chemistry I-II (4-4 credits)
Physics I-II (4-4 credits)

Nutrition and Dietetics

GPA 3.00 Average in Science and Math
3.00 Math: Precalculus I-II or equivalent
General Sciences: General Chemistry I
4 crs. Biol General I or II 4 crs.

Computer Science

GPA 3.00 Average in Science and
Math 3.00 Math (Pass with A or
B) Calculus I Computer Science
Passed with A or B CCOM 3020
(Discrete Math) CCOM 3030
(Introduction to C. Com.)

Mathematics

GPA 3.00 Average in Science & Math 3.00
Interview with Academic Advisor Required
Math Passed with A or B Calculus I 4
crs. – Calculus II 4 crs.

Environmental Sciences

GPA 3.00 Average in Science and
Math 3.00 Mathematics Calculus I
General Classes 8 credits and labs
Biol I-II Chemistry I-II Physics I-II

GRADUATION REQUIREMENTS

The Faculty of Natural Sciences follows the rules established by the Campus to confer a degree must have: Minimum graduation and concentration index of 2.00 and be classified in the Faculty that grants the degree. Some departments have specific requirements set out in their curriculums, such as:

Molecular and Integrative Cell Biology

Students must pass concentration courses with a grade of C or higher.

Interdisciplinary Science Program

Students must pass the science-directed elective courses with a grade of C or higher.

Mathematics

All its aspects: Computational, Pure and Discrete students must pass the concentration courses with a grade of C or higher; including the optional ones in MATE.

Physics

Students must **pass concentration courses with a grade of C or higher.**

Nutrition and Dietetics

All courses included in both sections of the concentration component must be passed with a grade of C or higher.

Computer Science

Students must pass concentration courses with a grade of C or higher.

Chemistry

Students must pass QUIM 3001-3002 with A or B, concentration courses with C or higher.

MISSION FACULTY OF NATURAL SCIENCES

The mission of the Faculty of Natural Sciences is the intellectual and humanistic training of professionals in various areas of scientific endeavor. An integral part of this mission is the search for truth through research and thus solve the problems that affect humanity.

MISSION, DEPARTMENTS AND PROGRAMS

BIOLOGY

Mission

The mission of the Department of Biology of the Faculty of Natural Sciences is to offer an education of excellence at the undergraduate and graduate level and to contribute to generating knowledge on cutting-edge topics of Biology to respond and provide solutions to the challenges of the 21st century. We encourage the development of a comprehensive and interdisciplinary vision of knowledge through critical learning and scientific research. We foster an inclusive academic environment that values diversity and fosters a collaborative learning and research community.

CHEMISTRY

Mission

Chemistry is a vital and dynamic science of great importance to other sciences and modern technology. It establishes fundamental knowledge through the study of the structure, properties and reactions of matter. Chemistry helps us understand the various chemical processes in the world around us, and offers solutions to problems related to everyday life, health and the environment. It also promotes the discovery of solutions to problems that can improve quality of life. The mission of the Department of Chemistry is to provide a sound academic background, both theoretical and experimental, of competent scientists and professionals with a background in chemistry.

MATHEMATICS

Mission

The mission of the Bachelor of Science in Mathematics is to prepare graduates with a basic mathematical knowledge and a solid mathematical culture that will provide them with the foundation for their future life, regardless of the area of mathematics or the applications they select, which will open up a wide range of career opportunities. This foundation is essential for graduates to be successful and compete advantageously in their future careers in the area of mathematics

COMPUTER SCIENCE

Mission

The Department of Computer Science has a mission to prepare ethical and socially responsible professionals in Computer Science to succeed in local and international industries/organizations/government and academia. To encourage research and advanced studies in Computer Science, as well as in interdisciplinary computational research, and to encourage students to pursue graduate studies.

PHYSICS

Mission

The Department of Physics aims to become an internationally recognized center for research and education in theoretical and experimental physics. Its mission is to:

- Educate physicists who can help advance the frontiers of physics and development in Puerto Rico.
- To provide educational experiences for the academic development of all undergraduate science students, to enrich their scientific understanding of the physical world and to foster a deep understanding of physics concepts.

- Help expand the frontiers of science through the original execution of theoretical and experimental research.
- Provide an academic environment that supports a highly competitive physics culture.

ENVIRONMENTAL SCIENCES

Mission

The mission of the Department of Environmental Sciences is to apply a comprehensive, quantitative, and interdisciplinary approach to the study of natural and human systems. To provide the student with the skills and knowledge necessary to successfully advance in an academic, industrial, or government setting. Our program encompasses the disciplines of the physical sciences (e.g., biology, mathematics, chemistry, physics, geology, and engineering) as well as the social sciences (e.g., public health, sociology, economics, geography, public policy, education, and planning).

INTERDISCIPLINARY PROGRAM IN NATURAL SCIENCES

Mission

The mission of the program in *Natural Sciences-Interdisciplinary Studies (CNEI)* is to offer an interdisciplinary preparation of excellence, with a broad training in the field of natural sciences, mathematics and computer science, a mastery of the application of scientific methodology and integrated computer science to the development of effective communication skills. The flexibility of the curriculum allows students to create a baccalaureate according to their interests and career goals. The selection of the Faculty's courses and free electives, together with individualized advising, enables our graduates to pursue graduate studies, enter professional schools or enter the world of work.

PROGRAMS OF STUDY

GENERAL PROGRAM: ENVIRONMENTAL SCIENCES FIRST YEAR

First Semester
Required Courses

Second Semester
Required Courses

ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
MATE3151- Calculus I	4	BIOL 3102- General Biology II	4
QUIM 3001- General Chemistry I	4	QUIM 3002- General Chemistry II	4
CINA 3005- Introduction to Environmental Science	3	CINA 4147- Geophysics, or CINA 4157- Terrestrial and Aquatic Resources of Puerto Rico, Their Management and Maintenance, or CINA 4177- Air Resources, Their Management and Maintenance	2 or 3

SECOND YEAR

First Semester
Required Courses

Second Semester
Required Courses

LITE	3	LITE	3
ART	3	MATE 3026 - Introduction to Computer Statistics	3
BIOL 3101- General Biology I	4	CINA 4127- Techniques related to the management and conservation of the environment	4
QUIM 3015- Analytical Chemistry	4	CINA 4147- Geophysics, CINA 4157- Terrestrial and aquatic resources of Puerto Rico, their management and maintenance, CINA 4177- Air resources, their management and maintenance	2 or 3
CINA 4147- Geophysics, CINA 4157- Terrestrial and aquatic resources of Puerto Rico, their management and maintenance, CINA 4177- Air resources, their management and maintenance	2 or 3	ECON 3005- Introduction to Economics	3

THIRD YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

HUMA or CISO	3	HUMA or CISO	3
CINA 3128- Planning and Regulation of Natural Resources	2	FISI 3012- University Physics II	3
BIOL 3111- Introduction to Ecology	3	FISI 3014- University Physics Laboratory II	1
BIOL 3112- Ecology Laboratory	1	CINA 4072- Environmental Science Seminar II	1
FISI 3011- University Physics I	3	EGCN	3
FISI 3013- University Physics Laboratory I	1	Free Elective	3
Free Elective	3	Elective Concentration	3

FOURTH YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

HUMA or CISO	3	HUMA or CISO	3
EGCN	3	CINA 4997- Research	3
CINA 4071- Environmental Science Seminar I	1	Free Elective	6
CINA 4997- Research	3	Elective Concentration	3
Free Elective	6		
Elective Concentration	3		
TOTAL CREDITS			131

Directed Electives: Options to Choose From

CINA 5990 FISI 3017 CINA
 4155 QUIM 3025 BIOL
 CINA
 3126

GENERAL PROGRAM: PHYSICS FIRST YEAR**First Semester**

Required Courses

Second Semester

Required Courses

CISO 3121 (Social Sciences I)	3	CISO 3122 (Social Sciences II)	3
ESPA 3001, 3101 or 3111 (Spanish I)	3	ESPA 3002, 3102 or 3112 (Spanish II)	3
HUMA 3101 (Humanities I)	3	HUMA 3102 (Humanities II)	3
MATE 3151- Calculation I	4	MATE 3152 - Calculation II	4
QUIM 3001- General Chemistry I	4	QUIM 3002- General Chemistry II	4

SECOND YEAR**First Semester**

Required Courses

Second Semester

Required Courses

FISI 3171- Physics I	4	FISI 3172- Physics II	4
FISI 3173- Physics Laboratory I	1	FISI 3174- Physics Laboratory II	1
ART	3	Free Elective	3
ENGLISH 3001, 3101 or 3111 (English I)	3	ENGLISH 3002, 3102 or 3112 (English II)	3
Literature I	3	Literature II	3
Directed Elective	3	Free Elective	3

THIRD YEAR**First Semester**

Required Courses

Second Semester

Required Courses

FISI 3016- Introduction to Modern Physics	3	FISI 4052- Intermediate Mechanics II	3
FISI 4051- Intermediate Mechanics I	3	FISI 4069- Electromagnetism II	3
FISI 4068- Electromagnetism I	3	CINA Natural Sciences I	3
CINA Natural Sciences I	3	FISI 4032- Methods of Mathematical Physics	3
FISI 4031- Methods of Mathematical Physics	3	Directed Elective	3

FOURTH YEAR**First Semester**

Required Courses

Second Semester

Required Courses

FISI 4046- Elements of Quantum Mechanics	3	FISI 4057- Thermodynamics and Statistical Mechanics	3
FISI 4076- Intermediate Laboratory I	2	FISI 4077- Intermediate Laboratory II	2
Directed Elective	6	Directed Elective	3
Free Elective	3	Free Elective	3

Free Elective	3	Free Elective	3
		TOTAL CREDITS	129

Directed Electives: Options to Choose From

FISI 4047
 FISI 4048
 ASTR 4006
 MATE 3153
 MATE 4019
 MATE 4061
 MATE 4062
 MATE 5037
 MATE 4045
 MATE 4009
 MATE 4031
 CCOM 3030

FISI 4049
 FISI 4055
 FISI 4056
 FISI 4042
 QUIM 3025
 QUIM 4015
 FISI 5005
 METE 3901
 METE 3902
 ASTR 3055
 FISI 4058

GENERAL PROGRAM: COMPUTER SCIENCE FIRST YEAR

First Semester

Required Courses

Second Semester

Required Courses

CCOM 3981- Undergraduate Seminar in Computer Science I	1	CCOM 3982- Undergraduate Seminar in Computer Science II	2
CCOM 3030- Introduction to Computer Science	3	CCOM 3020- Discrete Mathematics	3
MATE 3151- Calculation I	4	CCOM 3033- Introduction to Computer Programming	3
English I	3	English II	3
English I	3	English II	3
Social Sciences I	3	Social Sciences II	3

SECOND YEAR

First Semester

Required Courses

Second Semester

Required Courses

CCOM 3034- Data Structures	3	CCOM 4029- High-Level Programming Languages	3
CCOM 4086- Computer Architecture I	3	CCOM 4027- Introduction to Data Management	3
MATE 3152- Cálculo II	4	MATE 4032- Upper Algebra I	3
Humanities I	3	Humanities II	3
Science with Lab. I	4	Science with Lab. II	4

THIRD YEAR

First Semester
Required Courses

Second Semester
Required Courses

CCOM 4017- Operating Systems	3	CCOM 5050- Algorithm Design and Analysis	3
CCOM 4030- Introduction to Software Engineering	3	CCOM Elective	3
MATE 4080- Applied Modern Algebra	3	MATE Elective	3
Literature I	3	Literature II	3
Free Elective	3	Free Elective	3
		ART	3

FOURTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

CCOM 5035- Theory of Computability	3	CCOM 4087 - Compiler Design	3
CCOM Elective	3	CCOM Elective	3
MATE Elective	3	Free Elective	3
Science I FCN-Faculty of Natural Sciences	3	Science II FCN- Faculty of Natural Sciences	3
Science I FEG- Faculty of General Studies	3	Science II FEG- Faculty of General Studies	3
			TOTAL CREDITS
			130

Directed Electives: Options to Choose From

CCOM
5060,
MATE
4995,
CCOM
4016,
CCOM
5677,
CCOM
5026,
CCOM
3986,
CCOM
4996

GENERAL PROGRAM: FIRST YEAR MATHEMATICS**First Semester**
Required Courses**Second Semester**
Required Courses

MATE 3018- Preparatory Course for Calculus and Analytical Geometry (MATE 3023- Precalculus I, MATE 3024- Precalculus II)	4	MATE 3151- Calculation I	4
HUMA I	3	HUMA II	3
ESPA I	3	ESPA II	3
ENGLISH I	3	ENGLISH II	3
ART	3	CCOM 3030- Introduction to Computer Science	3

SECOND YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

MATE 3152 - Calculation II	4	MATE 3153- Calculation III	4
CCOM 3033- Introduction to Computer Programming	3	MATE 4031- Linear Algebra	3
MATE 3325- Introduction to Discrete Mathematics	3	Free Elective I	3
Seminar I	1	Literature II	3
Literature I	3	CISO 3122- Introduction to Social Sciences II	3
CISO 3121- Introduction to Social Sciences	3		

THIRD YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

MATE 5001- Probability I	3	MATE 4009- Ordinary Differential Equations	3
MATE 4032- Upper Algebra I	3	MATE 5002- Statistics I	3
Course with Laboratory I (QUIM, BIOL or FISI)	4	Course with Laboratory II (QUIM, BIOL or FISI)	4

CIBI 4105- Seminar on Current Controversies in the Life Sciences o CIFI 4005- Comparative Views of the Origins of Physical Reality, Matter, and the Universe o ICFI 4995- Interdisciplinary Issues in the Physical Sciences	3	CIBI 4105- Seminar on Current Controversies in the Life Sciences o CIFI 4005- Comparative Views of the Origins of Physical Reality, Matter, and the Universe o ICFI 4995- Interdisciplinary Issues in the Physical Sciences	3
Free Elective II	3	Directed Elective I	3

FOURTH YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

MATE 5201- Advanced Calculation I	3	Directed Elective IV	3
Directed Elective II	3	Directed Elective V	3
Directed Elective III	3	Free Elective V	3
Free Elective III	3	Free Elective VI	3
Free Elective IV	3	Natural Sciences Course	3
Seminar II	1		
TOTAL CREDITS			128

Directed Electives: Options to Choose From

MATE 4033
MATE 5205
MATE 4045
MATE 5037
MATE 4019
MATE 4089 (Geometry) MATE 5206
(Convex & Discrete Geometry)

GENERAL PROGRAM: NUTRITION AND DIETETICS**FIRST YEAR****First Semester**
Required Courses**Second Semester**
Required Courses

ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
CIFI 3010- Elements of Physical Science for Nutritionists and Dietitians	3	Elective	3
BIOL 3102- General Biology II	4	TAMALE	3
MATE 3023- Precalculation I	2	MATE 3024- Precalculation II	2
TAMALE	3	NUTR 4225- Professional Aspects of Nutrition and Dietetics	1
		CISO	3

SECOND YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

QUIM 3001- General Chemistry I	4	QUIM 3002- General Chemistry II	4
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BIOL 3711- Human Biology I	3	BIOL 3712- Human Biology II	3
MATE 3151- Calculation I	4	BIOL 3101- General Biology I	4
MATE 3026- Introduction to Computer Statistics	3	NUTR 4041- Human Nutrition I	3
NUTR 4075- Food Service Systems Management	3	NUTR 4031- Food Science	3
		NUTR 4045- Applied Human Nutrition I	1

THIRD YEAR

First Semester
Required Courses

Second Semester
Required Courses

QUIM 3015- Compendium of Organic Chemistry	4	NUTR 4158- Human Biochemistry	3
NUTR 4198- Research Methods in Nutrition	2	NUTR 4159- Human Biochemistry Laboratory	1
NUTR 4055- Purchasing Food for Foodservice Systems	2	NUTR 4170- Nutrition Teaching Methodology	2
NUTR 4068- Facility Design and Equipment Purchase for Food Service Systems	2	Elective	3
BIOL 3705- Microbiology	4	NUTR 4176- Nutrition in the Community	2
BIOL 3349- Genetics	3	Elective	3
		CISO	3

FOURTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

NUTR 4042- Human Nutrition II	3	NUTR 4166- Advanced Clinical Dietetics	2
NUTR 4165- Clinical Dietetics	2	NUTR 4169- Applied Clinical Nutrition and Dietetics	1
NUTR 4175- Practice in Teaching Nutrition	1	LITE	3
LITE	3	NUTR 4085- Large-scale food production	3
NUTR 4086- Menu for Foodservice Systems	3	ART	3
CIBI 4105/ CIFI 4995/ 4005	3	Elective	3
Elective	3		
TOTAL CREDITS			138

Directed Electives: Options to Choose From

PSIC 3005

ANTR 3005

~~PSYC~~ 3257, TEED 3125,
~~ECDO~~ 3015
 ECDO EDFU 4007
 3007

GENERAL PROGRAM: SCIENCES- INTERDISCIPLINARY STUDIES (WITHOUT CALCULUS I) FIRST YEAR

First Semester Second Semester
 Required Courses Required Courses

English	3	English	3
MATE 3023- Precalculus I	2	MATE 3024- Precalculus II	2
Humanities	3	Humanities	3
CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
CINA 3005- Introduction to Environmental Science	3	ART	3

SECOND YEAR

First Semester
 Required Courses

Second Semester
 Required Courses

BIOL 3102- General Biology II	4	BIOL 3101- General Biology I	4
QUIM 3001- General Chemistry I	4	QUIM 3002- General Chemistry II	4
MATE 3151- Calculus I	4	MATE 3026- Introduction to Computer Statistics	3
Spanish	3	Spanish	3

THIRD YEAR

First Semester
 Required Courses

Second Semester
 Required Courses

FISI 3011- University Physics I	3	FISI 3012- University Physics II	3
FISI 3013- University Physics Laboratory I	1	FISI 3014- University Physics Laboratory II	1
BIOL 3349- Genetics	3	Directed Elective (Science)	7
Directed Elective (Science)	4	Free Elective	6
Free Elective	6		

FOURTH YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

Directed Elective (Science)	7	Directed Elective (Science)	6
ED GEN CN	3	ED GEN CN	3
Literature	3	Literature	3
CNEI 4011- Interdisciplinary Integration I	1	CNEI 4012- Interdisciplinary Integration II	2
Free Elective	3	Free Elective	3
		TOTAL CREDITS	125

GENERAL PROGRAM: SCIENCES- INTERDISCIPLINARY STUDIES (WITH CALCULUS I)**FIRST YEAR****First Semester**
Required Courses**Second Semester**
Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
BIOL 3102- General Biology II	4	BIOL 3101- General Biology I	4
QUIM 3001- General Chemistry I	4	QUIM 3002- General Chemistry II	4
MATE 3151- Calculation I	4	MATE 3026- Introduction to Computer Statistics	3

SECOND YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

English	3	English	3
Humanities	3	Humanities	3
BIOL 3349- Genetics	3	ART	3
Directed Elective (Science)	4	CINA 3005- Introduction to Environmental Science	3
		Directed Elective (Science)	4

THIRD YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

Spanish	3	Spanish	3
FISI 3011- University Physics I	3	FISI 3012- University Physics II	3
FISI 3013- University Physics Laboratory I	1	FISI 3014- University Physics Laboratory II	1
Directed Elective (Science)	3	Directed Elective (Science)	3
CN General Education	3	CN General Education	3
Free Elective	3	Free Elective	3

FOURTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

Directed Elective (Science)	6	Directed Elective (Science)	4
Literature	3	Literature	3
CNEI 4011- Interdisciplinary Integration I	1	CNEI 4012- Interdisciplinary Integration II	2
Free Elective	6	Free Elective	6
		TOTAL CREDITS	121

GENERAL PROGRAM: CHEMISTRY FIRST YEAR

First Semester
Required Courses

Second Semester
Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
QUIM 3001- General Chemistry I	4	QUIM 3002- General Chemistry II	4
ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
MATE 3151- Calculation I	4	MATE 3152 - Calculation II	4

SECOND YEAR

First Semester
Required Courses

Second Semester
Required Courses

QUIM 3451- Organic Chemistry I	4	QUIM 3452- Organic Chemistry II	4
LITE	3	LITE	3
FISI 3011- University Physics I	3	FISI 3012- University Physics II	3
FISI 3013- University Physics Laboratory I	1	FISI 3014- University Physics Laboratory II	1
TAMALE	3	TAMALE	3

THIRD YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

QUIM 3255- Chemical Analysis I	4	QUIM 4015- Instrumental Analytical Chemistry	4
BIOL 3101- General Biology I	4	QUIM 4055- Biochemistry	3
ESPA or ENGLISH Writing	3	MATEQUIM	4
CIBI/CIFI 4000	3	CIBI/CIFI 4000	3
Free Elective	3	Free Elective	3

FOURTH YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

ART	3	QUIM 4000- Organic Chemistry	3
QUIM 4041- Physical Chemistry I	3	QUIM 4042- Physical Chemistry II	3
QUIM 4043- Intermediate Laboratory I	2	QUIM 4044- Intermediate Laboratory II	2
Directed Elective	3	Directed Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
TOTAL CREDITS			130

Directed Electives: Options to Choose From

QUIM 4025
 QUIM 4865
 QUIM 4035
 QUIM 4999
 QUIM 5995
 QUIM 5995
 QUIM 5995
 QUIM 5995
 QUIM 5995
 QUIM 5995
 QUIM 5995
 QUIM 5995
 QUIM 5995
 QUIM 5995

GENERAL PROGRAM: BIOLOGY FIRST YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

MATE 3023- Precalculation I	2	MATE 3024- Precalculation II	2
BIOL 3102- General Biology II	4	TAMALE	3
ENGLISH	3	ENGLISH	3
CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3
		Free Elective I	3

Summer MATE 3151 - Calculation I **4**

SECOND YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

QUIM 3001- General Chemistry I	4	QUIM 3002- General Chemistry II	4
MATE 3026- Introduction to Computer Statistics	3	BIOL 3101- General Biology I	4
TAMALE	3	ART	3
Literature I	3	Literature II	3
Free Elective II	3	Free Elective III	3

Summer BIOL 3349- Genetics **3**

THIRD YEAR**First Semester**
Required Courses**Second Semester**
Required Courses

QUIM 3031- Organic Chemistry I	4	QUIM 3032- Organic Chemistry II	4
FISI 3011-13- University Physics I with Laboratory	4	BIOL 3410- Plant Organismal Biology or BIOL 3425- Animal Organismal Biology or BIOL 3705- Microbiology	4
BIOL 3410- Plant Organismal Biology or BIOL 3425- Animal Organismal Biology or BIOL 3705- Microbiology	4	ED GEN CS	3
Free Elective IV	3	Biology Elective I	3

Summer FISI 3012-14- University Physics II with Laboratory **4**

FOURTH YEAR

First Semester Required Courses

Second Semester Required Courses

Elective Biology II	3	Biology III Elective	3
Biology Lab	1	BIOL 4345- Evolution	3
BIOL 4350- Cell Biology or BIOL 4545- Cell Biochemistry	3	Biology Elective IV	3
BIOL 3111- Introduction to Ecology	3	Free Elective VI	3
Free Elective V	3		
TOTAL CREDITS			130

Directed Electives: Options to Choose From

~~BIOL 3448~~ BIOL 4805 BIOL 4806 BIOL 3782 BIOL 4056
BIOL 3576

BIOL 3781

BIOL 4990 BIOL 4999 BIOL 4328 BIOL 4330

BIOL 5026 BIOL 5037 BIOL 4345 BIOL 4360 BIOL 4415

BIOL 5495 BIOL 5538 BIOL 5548 BIOL 4440 BIOL 4455

BIOL 5600 BIOL5900 BIOL 4460

FACULTY OF NATURAL SCIENCES

- Ackerman, James D.; PhD, Florida State University, 1981; Professor
- Adam, Waldemar; PhD, Massachusetts Institute of Technology (MIT); Professor Emeritus
- Agosto Rivera, José L.; PhD, Brandeis University, 2008; Assistant Professor
- Aliev, Fouad M.; PhD, Leningrad University, 1975; Professor
- Altschuler Stern, Daniel R; PhD, Brandeis University, 1974; Professor
- Arce Nazario, Rafael; PhD, University of Puerto Rico-Mayagüez, 2007; Professor
- Arce Quintero, Rafael; PhD, University of Wisconsin, 1971; Professor Emeritus
- Bayman, Paul; PhD, University of California, 1987; Professor
- Bayro Checa, Marvin J.; PhD, Massachusetts Institute of Technology (MIT), 2010; Assistant Professor
- Bhuiyan, Lutful Bari; PhD, University of London, 1977; Professor

- Borrero Sierra, Michelle; PhD, University of North Carolina, 2001; Associate Professor

- Brokaw, Nicholas V.L.; PhD, University of Chicago, 1980; Professor Emeritus
- Burrowes Gómez, Patricia A.; PhD, University of Kansas, 1997; Professor
- Carballeira Cabranes, Néstor M.; DR. RER. NAT., University of Würzburg, 1983; Professor
- Cardona Torres, Iván; PhD, Florida State University, 1987; Professor
- Chen, Zhongfang; DSc, Nankai University, 2000; Professor
- Colón Rivera, Jorge L; PhD, Texas A&M University, 1989; Professor
- Colorado Laguna, Rafael; EdD, University of Puerto Rico (Río Piedras), 2008; Associate Professor
- Corrada Bravo, Carlos J.; PhD, University of Southern California, 2002; Professor
- Correa Matos, Nancy; PhD, University of Illinois, 2006; Associate Professor
- Cuevas Viera, Elvira; PhD, Venezuelan Institute Invest, 1983; Professor
- Cunci Pérez, Lisandro; PhD, University of Puerto Rico-Chemistry, 2013; Assistant Professor
- Dávila Díaz, Kariluz; PhD, University of Puerto Rico-Río Piedras, 2006; Assistant Professor
- Díaz Vázquez, Liz M.; PhD, University of Puerto Rico-Río Piedras, 2005; Professor
- Dvorsky, Elizabeth; PhD, University of Puerto Rico-Río Piedras, 1996; Professor
- Echegaray Echegaray, Francisco; PhD, University of California, 1988; Associate Professor
- Emmamy Khansary, Mohamad-Reza; PhD, UC Berkeley, 1981; Professor
- Feng, Xianping Peter; PhD, La Trobe University, 2001; Professor
- Fernandez Hernandez, Nivia A.; EdD, University of Puerto Rico (Río Piedras), 2000; Professor
- Figueroa Guerrero, Raúl F.; PhD, University of Iowa, 1988; Professor
- Flores Granados, David I.; PhD, CICESE, MX; 2015; Assistant Professor
- Fonseca Zamora, Luis F.; PhD, University of Puerto Rico (Río Piedras), 1985; Professor
- Gao, Qiong; PhD, Cornell University, 1987; Associate Professor
- García Arraras, José E.; PhD, Harvard University, 1981; Professor
- Ghezzi Grau, Alfredo; PhD, University of Texas at Austin, 2006; Associate Professor
- Giray, Tugrul; PhD, University of Illinois, 1997; Associate Professor
- Gong, Guihua; PhD, New York State University, 1990; Professor
- González Vargas, Carlos I.; PhD, Rutgers University, 1996; Associate Professor
- Griebenow, Kai H.; DSc, Düsseldorf University, 1992; Professor
- Guan, Puhua; PhD, Ohio State University, 1985; Professor
- Janwa, Heeralal; DSc, Syracuse University, 1986; Professor
- Joglar Jusino, Rafael; PhD, University of Kansas, 1986; Professor
- Katiyar, Ram Sharan; PhD, L.I. Cs Gandalore Ind., 1968; Professor
- Keyantuo, Valentine; PhD, Université Franché Comte, 1992; Professor

- Lasalde Dominicci, José A.; PhD, University of Puerto Rico (Río Piedras), 1988; Professor
- Liangqing, Li; PhD, University of Toronto, 1995; Professor
- Lluberes Contreras, Marie; PhD, University of Puerto Rico-Mayagüez, 2000; Assistant Professor
- Louime, Clifford; PhD, Florida Agricultural and Mechanical University, 2005; Associate Professor
- Maldonado Vlaar, Carmen S.; PhD, University of Puerto Rico, 1994; Professor
- Martínez Collazo, Antonio; PhD, The American University, 1990; Professor
- Massey, Steven Edward; DSc, University of Kent, 2004; Professor
- Medina Rivera, Luis A.; PhD, Tulane University, 2008; Professor
- Mégret Laboye, Rémi; PhD, National Institute of Applied Sciences, 2003; Associate Professor
- Meléndez Ackerman, Elvia J.; DSc, University of California, 1995; Professor
- Mir Franqui, Celia J.; EdD, University of Central Florida, 1993; Professor
- Montes González, Ingrid; PhD, University of Puerto Rico (Río Piedras), 1985; Professor
- Morell Marrero, Gerardo; PhD, University of Puerto Rico (Río Piedras), 1995; Professor
- Moreno Viqueira, Gabriel; PhD, New York State University, 1990; Associate Professor
- Motta Cruz, Noel; PhD, University of Puerto Rico (Río Piedras), 1994; Associate Professor
- Nicolau López, Eduardo L.; Ph.D., University of Puerto Rico-Chemistry, 2012; Professor
- Nieves Vázquez, José F.; PhD, University of Pennsylvania, 1980; Professor
- Nytech, Christopher; PhD, University of Puerto Rico-Environmental Sciences; 2018; Assistant Professor
- Orozco Salcedo, Edusmildo; PhD, University of Puerto Rico (Mayagüez), 2005; Associate Professor
- Ortiz Ubarri, José R.; PhD, University of Puerto Rico (Mayagüez), 2009; Professor
- Ortiz Zayas, Jorge R.; PhD, University of Colorado, 1998; Associate Professor
- Ortiz Zuazaga, Humberto G.; PhD, University of Puerto Rico (Mayagüez), 2008; Professor
- Palai, Ratnakar; PhD, University of Strachclyde, 2004; Professor
- Pantoja Pantoja, Carmen A.; DSc, University of Oklahoma, 1995; Professor
- Pope, Riccardo; PhD, Parma University, 2008; Professor
- Pennance, Philip; PhD, University of Puerto Rico (Río Piedras), 1988; Professor
- Pérez Hernández, María E.; DSc, Universidad Central de Venezuela, 1994; Professor
- Pericchi Guerra, Luis R.; PhD, University of London, 1981; Professor
- Peterson Peguero, Esther A.; PhD, University of Michigan-Ann Arbor, 2009; Associate Professor
- Pinto López, Elsa; PhD, Florida International, 2008; Professor

- Piñero Cruz, Dalice M.; PhD, University of Puerto Rico-Chemistry, 2009; Associate Professor
- Punchin Fung, Jorge G; PhD, University of Delaware, 1978; Professor
- Qiong, Gao; PhD, Cornell University, 1987; Associate Professor
- Quintero Rivera, Ana Helvia; PhD, Massachusetts Institute of Technology (MIT), 1980; Professor
- Ramírez Lugo, Juan S.; PhD, California Institute of Technology, 2010; Associate Professor
- Ramírez Ordoñez, Rosaura; PhD, University of Puerto Rico (Río Piedras), 1993; Assistant Professor
- Restrepo Bonilla, Carla E.; PhD, University of Florida, 1995; Professor
- Ríos Dávila, Rafael A.; PhD, University of Texas at Austin, 1975; Professor
- Rivera Ortiz, José M.; PhD, Massachusetts Institute of Technology, 2000; Professor
- Rivera Sanchez, Sasha; PhD, Universitat Autònoma de Barcelona, 2021; Assistant Professor
- Rodilla Luque, Fernando J.; PhD, Massachusetts Institute of Technology, 1984; Professor
- Rodríguez Berrios, Raul; PhD, University of Puerto Rico- Chemistry, 2010; Assistant Professor
- Rodríguez Fernández, Imilce A.; PhD, University of California, Los Angeles, 2012 Assistant Professor
- Rodríguez Martínez, José A.; PhD, University of Puerto Rico-Río Piedras, 2009 Associate Professor
- Rodríguez Pierluissi, Abimael; PhD, Johns Hopkins University, 1983; Professor
- Rubio Canabal, Ivelisse M.; PhD, Cornell University, 1998; Professor
- Sabat Guernica, Alberto; PhD, New York University Albán, 1990; Professor
- Santiago Valentín, Eugenio; PhD, University of Washington, 1999; Professor
- Selsby, Ronald; PhD, Ohio State University, 1969; Professor
- Shan, Lin; PhD, Vanderbilt University, 2007; Associate Professor
- Thomas, John Paul Richard; PhD, Louisiana State University, 1976; Professor Emeritus
- Tinoco, Arthur D.; PhD, Yale University, 2007; Professor
- Toranzos Soria, Gary Antonio; PhD, University of Arizona, 1985; Professor
- Toro Enriquez, Brenda; PhD, Kansas State University, 2005; Professor
- Torres Díaz, Carlos M.; PhD, University of Puerto Rico (Río Piedras), 2000; Associate Professor
- Ubrico, Marcelo R.; PhD, University of North Carolina, 1989; Professor
- Vargas Silva, Arnaldo J.; PhD, Indiana University, 2017; Assistant Professor
- Velez, Julian; PhD, University of Illinois, 2002; Professor
- Weiner, Brad; PhD, Cal. University at Davis, 1986; Professor
- Wu, Xianyong; Phd; Wuhan University, 2016; Assistant Professor

- Yu, Mei; PhD, Institute of Botany, 1998; Professor
- Zimmerman Earp, Jess K.; DSc, University of Utah, 1989; Professor
- Zou, Xiaoming; DSc, Colorado State, 1992; Professor

NATURAL SCIENCE COURSES

BIOL 3101 - General Biology I

Four credits. Six hours of lecture, discussion, and lab per week. Prerequisite: QUIM 3001. Study of the basic principles and concepts that operate in living organisms and their constituent units, emphasizing processes at the cellular level.

BIOL 3102 - General Biology II

Four credits. Six hours of lecture, discussion, and lab per week. Study of the fundamental principles of biology in the following areas: diversity in biology, ecology, anatomy, and plant and animal physiology.

BIOL 3106 - Introduction to Contemporary Biology

Three credits. Five hours of lecture, discussion, and lab per week. Introduction to the main concepts of contemporary biology.

BIOL 3110 - Ecology of Puerto Rico

Two credits. Three hours of lecture, discussion, or field trip per week. Prerequisites: BIOL 3102 or BIOL 3410 and 3420, and permission from the instructor or environmental science program director. Description of the ecological zones of life in Puerto Rico. Aspects of biogeography, climatology, threatened or endangered species, and bioconservation in Puerto Rico.

BIOL 3111 - Introduction to Ecology

Three credits. Three hours of lecture a week. Prerequisites: BIOL 3101 and BIOL 3420 or BIOL 3410 or BIOL 3102. This course is an introduction to the basic principles of modern ecology. Special emphasis will be placed on both the fundamental concepts and the applied aspects of ecology

BIOL 3112 - Ecology Laboratory

A credit. Three hours of lab time a week. Prerequisite: BIOL 3111. Laboratory exercises that offer instruction in fundamental principles and methods in Ecology.

BIOL 3349 - Genetics

Three credits. Three hours of lecture, discussion, and demonstration per week. Prerequisite: BIOL 3101-3102 and MATE 3026. Study of classical genetics, chemical nature, physical organization, changes and function of genetic material and introduction to population genetics.

BIOL 3350 - Genetics Laboratory

A credit. Three hours of lab and discussion per week. Prerequisite: BIOL 3015 or take concurrently. Exercises and experiments representative of the genetics of prokaryotic and eukaryotic organisms. The lab course is complementary to the Genetics course and is one of several labs that students in the Biology concentration can take to meet the requirement of taking a minimum of two labs to graduate.

BIOL 3365 - Molecular Biotechnology Laboratory

A credit. Three hours of lab time a week. Prerequisites: BIOL 3015 or teacher's permission. Basic techniques of recombinant DNA and their use in different research projects. Emphasis will be given to techniques used in gene identification and mapping, gene expression, medical and forensic diagnostics, gene therapy, bioremediation, and genetic engineering.

BIOL 3410 - Plant Organismal Biology

Four credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3101-3102. Study of the basic fundamentals of plant structure, physiology and diversity.

BIOL 3420 - Animal Organismal Biology

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3101-3102. Morphology, anatomy and physiology of the main groups of animals.

BIOL 3425 - Animal Organismal Biology

Four credits: Three lecture credits and one lab credit. Prerequisite: BIOL 3101 and BIOL 3102; It is recommended to have taken or take concurrently BIOL 3349. Introduction to biodiversity and the concepts and processes of comparative anatomy and physiology, reproduction, development, genetics, ecology and behavior of the Animal Kingdom, with an evolutionary perspective.

BIOL 3566– Biopsychology

Three credits. Three hours of lecture and discussion per week. Prerequisites: BIOL 3101, BIOL 3102, PSIC 3005 or PSIC 3115 or their equivalents. In the field of neuroscience and biopsychology, the various investigations that analyze the relationship between the structure and functioning of the nervous system and human behavior represent one of the most important scientific discoveries of the modern era. The integration of the discipline of Biology with the discipline of Psychology has as its main purpose to understand animal and human behavior in terms of biological mechanisms. In other words, biopsychology postulates that human behavior cannot be understood " without looking inside" the organism. Biopsychology draws on other fields such as: Molecular Biology, Neuropsychology, Neurochemistry and Health Sciences. Recent research trends in the field of Biopsychology include: the function and structure of the nervous system, the molecular and neurobiological basis of higher mental processes, learning and memory from the point of view of nervous system plasticity, the

neurobiology of mental illnesses and drug addiction among other topics.

BIOL 3576 - The Neuropsychopharmacology of Drug Use and Abuse

Three credits. Three hours of lecture a week. Prerequisites: BIOL 3101 or equivalent, BIOL 3102 or equivalent, PSIC 3005 or PSIC 3115, QUIM 3001 QUIM 3002 or equivalent. Interdisciplinary course where the fields of neurobiology, pharmacology, psychology and medicine come together with the purpose of offering a comprehensive approach to the different etiologies of drug addiction. The psychopharmacological and neurophysiological basis of the effects of the various drugs of abuse on the organization and functioning of the nervous system and human behavior is discussed in detail. A brief historical overview of drug use through the centuries is presented, and the most recent treatment alternatives available for drug dependence are discussed. The BIOL 3076 course changed the code to BIOL 3576.

BIOL 3705 - Microbiology

Four credits. Six hours of lecture, discussion, and three hours of lab work per week. Prerequisite: BIOL 3101 or BIOL 3106. General study of the morphology, physiology and genetics of microorganisms. Introduction to microbial ecology, clinical and environmental microbiology, immunology, virology, parasitology, and mycology.

BIOL 3711 - Human Biology I

Three credits. Three hours of lecture, discussion, demonstrations, and supervised independent study. Prerequisite: BIOL 3102-BIOL 3101. It does not carry credit as an elective in Biology for Biology majors. Integrated study of the anatomy and physiology associated with the structure and function of tissues, and of the systems: integumentary, skeletal, muscular, nervous, senses and endocrine. This is an introductory course offered by the Department in the area of Human Biology mainly aimed at students who are interested in pursuing studies in various health-related professions such as Nutrition, Pharmacy, Nursing, Veterinary, Physical Therapy, Medicine and Dental Medicine. It is also aimed at students in the Secondary Education Program in Biology.

BIOL 3712 - Human Biology II

Three credits. Three hours of lecture, discussion, demonstrations, and supervised independent study per week. Prerequisite: BIOL 3711. Integrated study of the structure and function of the blood, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive systems (including fetal development, pregnancy, and birth). This is an introductory course offered by the Department in the area of Human Biology mainly aimed at students who are interested in pursuing studies in various health-related professions such as Nutrition, Pharmacy, Nursing, Physical Therapy, Medicine and Dental Medicine. It is also aimed at students in the Program in Secondary Education in Biology.

BIOL 3770 - Microbiology

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3101. General study of the morphology, physiology and genetics of microorganisms with emphasis on bacteria. Introduction to mycology, virology, parasitology, immunology and applied microbiology.

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BIOL 3781 - Human Biology III

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3102 or 3420. This course is intended to give the student an overview of vertebrate anatomy and histology, with an emphasis on the basic concepts, structure, and physiology of the human body. The student will gain fundamental knowledge of the structure and function of the limbs, major organ systems, innervations, and vascular supply through lectures, tissue slide microscopy, demonstration, and dissection of cat carcass specimens.

BIOL 3782 - Human Biology IV

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3781. Integrated study of the structure and function of the circulatory, digestive, respiratory, urinary, endocrine and reproductive systems of the human body. Emphasis on laboratory work.

BIOL 4031 - Cellular Molecular Biology I

Four credits. Four hours of lecture and discussion per week. Prerequisite: BIOL 3015, QUIM 3031-3032, BIOL 3420 or BIOL 3410. Cell Structure and Function and Introduction to the Biochemistry of Proteins, Carbohydrates and Lipids.

BIOL 4032 - Cellular Molecular Biology II

Four credits. Four hours of lecture and discussion per week. Prerequisite: BIOL 4031. Structure and biochemistry of nucleic acids, molecular biology of the gene, and molecular and cellular aspects of development.

BIOL 4035 - Experiments in Developmental Biology

A credit. Three lab hours per week Prerequisite: BIOL 4031 and BIOL 4032. Introduction to the experimental analysis of concepts and principles of developmental biology.

BIOL 4036 - Molecular and Cell Biology Laboratory

A credit. Three hours of lab time a week. Prerequisite: BIOL 4031. Introduction to modern experimental techniques and methods applied to the analysis of cells and biological molecules.

BIOL 4056 - Immunology

Three credits. Three hours of lecture a week. Prerequisites: BIOL 3349 (genetics) or its equivalent or teacher's consent. Introduction to the biology of the immune system, emphasizing the cellular and molecular mechanisms and events that are part of the immune response. Emphasis will be given to topics in: molecular cellular immunology, immunogenetics, structure and function of acquired immune system receptors, immune disorders, and immunological applications that are used in diagnosis, biomedical treatment.

BIOL 4057- Biology and Management of Invasive Species

Three credits. Three hours of lecture a week. Prerequisite: BIOL3101 AND BIOL3102, and preferably one

of the following courses: BIOL3425, BIOL3410, BIOL4345, or BIOL3111. The study of the fundamental concepts related to the dispersal, establishment and propagation of species in alien habitats; the causes and consequences of biological invasions; and the development of management strategies for its control.

BIOL 4101/6101 - Sustainability, Resilience and Landscapes: Conceptual Bases, Methods and Practices

BIOL 4115 - Experimental Ecology

Three credits. Six hours of lecture, discussion, and lab work per week. Prerequisite: BIOL 3017. Topics of physiological ecology, population dynamics, evolutionary aspects, experimental design and instrumentation.

BIOL 4126 - Vertebrate Ecology

Three credits. Six hours of lecture, discussion, laboratory and field trips per week. Prerequisite: BIOL 3101-3102. Study of environmental factors influencing the activity, distribution, and behavior of vertebrates, particularly Puerto Rican species.

BIOL 4328 - Applied Microbiology

Three credits. Six hours of lecture, discussion and laboratory. Prerequisite: BIOL 3770 and teacher's permission. Lecture, discussion and laboratory on the study of microorganisms in the environment, the food industry, the clinic and research with emphasis on the laboratory techniques used in these areas of microbiology. It is aimed at advanced undergraduate students to provide them with the opportunity to further deepen their knowledge of microbiology, acquire technical skills in applied microbiology and develop the capacity to research and make scientific reports and presentations. The course will provide the opportunity for students to apply the knowledge acquired in the General Microbiology course to practical situations used in the environment, community, public health, and food industries. It will also give the student the opportunity to develop microbiological research, prepare a written research paper, and make an oral presentation.

BIOL 4330 - Industrial Microbiology

Four credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: BIOL 3770. Availability for field trips. Conference, discussion and laboratory on the study of microorganisms, processes, sample analysis and environmental and industry regulations. It is aimed at advanced undergraduate students to provide them with the opportunity to learn concepts, terminology and processes used in a field of increasing importance. Emphasis will be placed on the analysis of bio-processes, biotechnology, operations and monitoring involving microorganisms and/or their control, as well as the regulations that frame them. Whenever possible, the applications of industrial microbiology in Puerto Rico will be used as an example.

BIOL 4345 - Evolution

Three credits. Three hours of lecture a week. Prerequisite: BIOL 3015. In BIOL 4345 we will cover evolution as a concept and theory, as well as its practical applications in daily life. Simply put, evolution is a hereditary change that operates across populations and on various timescales that results in the diversity of life forms we observe. Numerous mechanisms at the micro and macro levels act synergistically, antagonistically, and sometimes independently, giving rise to evolution. An understanding of these evolutionary processes allows us to understand biology as a whole because evolution is the unifying theory of biology.

In this course, you will address some of the main questions in evolutionary biology and the methods used by researchers to formulate and answer those questions. We will also examine how modern medicine, agriculture, and conservation efforts are influenced by our knowledge of evolutionary biology. Evolution is the "big idea" and the most integrative and comprehensive substudy of biology. By the end of the course, we hope you will fully appreciate Theodosius Dobzhansky's famous statement "Nothing in biology makes sense except in the light of evolution."

BIOL 4350 - Cell Biology

Three credits. Three hours of lecture and discussion per week. Prerequisites: General Biology I (BIOL 3101) and Genetics (BIOL 3349) or equivalent. Study of the cell as a biological unit. The course is required for students majoring in biology. Concepts related to cell structure, function, and regulation are developed from the molecular level to tissues. The anatomy and physiology of eukaryotic cells is emphasized.

BIOL 4360 - Introduction to Molecular Bioinformatics

Three credits. Three hours of lecture a week. Requirements: Teacher's permission. Availability of computers with internet access. Introduction to the application of molecular bioinformatics. The course is aimed at undergraduate students who are interested in becoming familiar with the tools and principles of bioinformatics for the analysis of biological data and their application in research. Emphasis will be given to applications in the area of molecular cell biology and biomedical sciences. The course will use programs and databases available on the internet for the computational analysis of nucleic acid sequences

and proteins, and their application to biological problems. In addition, it will include mathematical concepts and statistics relevant to the study of genomes and proteomes.

BIOL 4401 - Agroecology

Three credits. Three hours of lecture a week. Prerequisites: Introduction to Ecology (BIOL3111) or Genetics (BIOL3349). The course deals with the evolution of agriculture and the integration of ecological principles into agricultural systems.

Through the analysis of scientific literature and case studies, students will learn about the current issues facing agriculture and their impact on our planet, society and society and species. Students will research existing initiatives and design recommendations to contribute to Puerto Rico's food security through their knowledge of science. The course includes field trips to learn

about different cultivation techniques and also appreciate the diversity of edible fruits with food and commercial potential in Puerto Rico. Students are expected to develop written and oral communication skills through essays and oral presentations, as well as critical analysis of primary and secondary scientific literature. The course is aimed at undergraduate students of the Faculty of Natural Sciences.

BIOL/CNEI 4201 - Health, Environment and Society: Bio-social Integration

BIOL 4415 - Invertebrates

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3101-3102. General study of the morphology, embryology, ecology and classification of invertebrates.

BIOL 4426 - Parasitology

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3102 or 3420. The biology of protozoa and helminths representative of vertebrate parasites including man and their host-parasite relationships.

BIOL 4440 - Vertebrate Biology

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3420 or 3102. Origin and adaptive radiation of vertebrates with emphasis on invasion of the main adaptation zones, evolution of terrestrial adaptations, endothermic evolution; the evolution of flight, modifications of aquatic life, reproductive strategies.

BIOL 4455 - Herpetology

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3101-3102. The systematics, evolution, and biology of amphibians and reptiles, with emphasis on species from Puerto Rico and other Antilles.

BIOL 4460 - Endocrinology

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: BIOL 3420, BIOL 4031 and BIOL 4545. Study of the endocrine system with emphasis on vertebrates, especially mammals, and its relationship with the nervous system, hormonal regulation, mechanisms of action, and cellular and systemic effects of hormones.

BIOL 4466 - Plant morphology

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3102 or 3410. Comparative morphology of a series of representative plants. Special attention to functional aspects, patterns and processes of evolution.

BIOL 4475– Immunobiology

Three credits. Two hours of discussion and four hours of lab per week. Prerequisite: 4031, BIOL 3101. Introduction to the main concepts of vertebrate immunobiology. Lecture topics cover the cells and tissues involved in vertebrate immune defenses as well as mechanisms at the molecular,

sub-cellular and cellular levels that make up the immune response. Laboratory exercises provide hands-on experience in this area.

BIOL 4477 - Anatomy of Plants

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3410 or BIOL 3102. Study of the origin, development and structure of vascular plant tissues and organs related to their function and evolution.

BIOL 4486 - Ethnobotany

Three credits. Three hours of lecture a week. Prerequisites: BIOL 3101, 3102 or BIOL 3410. QUIM 3001 and QUIM 3002. The teaching of Ethnobotany from the economic and historical perspective of the origin of plants. Evaluation and comparison of the origin and development of the main plant products used by humans over time. Study of the crops of the island of Puerto Rico, their folkloric and economic relationship.

BIOL 4545 - Biochemistry of the Cell

Three credits. Three hours of lecture a week. Prerequisite: BIOL 3101-3102. The main objective of this course is to present a holistic view of fundamental concepts related to the molecules and interactions that are required to keep the cell in a stable and dynamic state of equilibrium. Through the critical analysis of established concepts and recent studies focused on proteins, lipids and carbohydrates, the student will become familiar with the relationship between the form and function of macromolecules, the dynamic networks formed by interactions between them, the flow of information through these networks and the energy transformations that ensure cellular homeostasis. In addition, concepts of how these molecules and processes have changed and/or been conserved throughout biological evolution will be presented. The course will also present an introduction to the general properties of cell organization from cell membranes, the metabolic regulation of processes at the cell, tissue, and organism level, and the experimental techniques used for analysis

BIOL 4805 - Introduction to Animal Behavior

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3101- 3102. Comparative study of the behavior of terrestrial, fluvial and marine animals from protozoa to man. Instinct, learning, orientation and navigation. Behavior and social organization and the evolution of behavior.

BIOL 4806 - Evolutionary Medicine

Three credits. Three hours of lecture and discussion per week. Prerequisites: BIOL 3101-BIOL 3102 or equivalent, BIOL 3111 or BIOL 3319 or teacher's consent. BIOL 4345 is recommended. Lecture and discussion aimed at examining the study of diseases and other human health problems from an evolutionary, ecological, and behavioral perspective. Aimed at advanced students of the Faculty of Natural Sciences or other faculties interested in learning about new and little-known aspects of diseases with repercussions for their treatment. Emphasis will be placed on the development of critical thinking, discussion, and primary information synthesis skills.

BIOL 4980 - Biology Tutoring

A credit. Five hours a week. Prerequisites: permission from the professor and approval from the head of the department. It can be repeated up to a maximum of three credits, provided that it is in different courses. It counts only as a free elective in biology. Only for natural sciences or science education students who have A or B in the course in which they are enrolling as a tutor. Must have passed 9 credits in biology courses (except for general biology where only 6 credits will be required). Training to gain experience in teaching biology courses and laboratories.

BIOL 4990 - Introduction to Research

One to three credits. Five to fifteen hours a week. Prerequisite: Principal's permission. Supervised work on laboratory-based or field-based research projects.

BIOL 4999 - Topics in Biology.

One to three credits. One to three hours of lecture and/or discussion and/or laboratory per week. Prerequisite: Teacher's permission. A student may receive credits up to a maximum of 9 for the course, if the topics covered are different. Presentation and discussion of various topics in a specific area of biology. For example: physiology, ichthyology, malacology, oncology.

BIOL 5025 - Animal Eco Physiology

Three credits. Three hours of lecture and three hours of lab per week. Prerequisite: BIOL 3017 or its equivalent and FISI 3001-3002 or its equivalent. Study of the ways in which animals modify their physiology and behavior in response to the environment.

BIOL 5026 - Functional histology and methods

Four credits. Three hours of lecture and three hours of laboratory time per week. Prerequisites: BIOL 3240 BIOL 4031 and/or instructor's permit. Studies of the fundamentals of light microscopy, electronic visualization, image interpretation and microscopic sections for a better understanding of the morphology and morphogenesis of cells, tissues and organs in vertebrates. It includes a laboratory to develop skills in tissue preparation and in the use of modern visualization techniques and methods that will allow the localization of tissues.

molecules within cells and tissues.

BIOL 5027 - Plant Physiology

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3101-3102, director's permission. For high school or master's students. Study of physiological principles and processes in plants; with an emphasis on seed plants.

BIOL 5029 - Tropical Forest Resources

Four credits. Three hours of lecture and four hours of lab per week. Prerequisite: BIOL 3017, BIOL 3410. BIOL 5027 is recommended. Introduction to the conservation and management of tropical forest resources.

BIOL 5037 - Natural History of Puerto Rico

Three credits. Three hours a week of lectures and field trips. Prerequisites: Biol. 3102 or Biol. 3410 and 3425, and Instructor's Permit. As Puerto Rico loses green areas and alters its natural contour, knowledge about natural history becomes more important. The first step in the protection and conservation of our natural heritage is the knowledge of the richness of our biodiversity and natural resources. To the extent that the student knows the fauna, flora, ecosystems, endangered species and other important elements of the natural world of Puerto Rico, he or she will be better able to actively participate in the conservation of these elements. In the Department of Biology (Faculty of Natural Sciences) there are courses that cover aspects of biodiversity (Zoology, Botany, Ecology and Ecology of Puerto Rico) but these are basic courses at the 3000 level and with the exception of Ecology of Puerto Rico, none of these deal exclusively with the fauna, flora, ecosystems, and endangered species of Puerto Rico. This course presents a detailed study of Puerto Rico's natural history. The Faculty of Natural Sciences, in its curricular review regarding the reconceptualization of the baccalaureate, has recognized the importance of courses that emphasize Puerto Rico's problems. This course will be particularly useful for all biology students (bachelor's, master's and doctoral students) including those who have specialized in areas of biology other than organismal biology or ecology.

BIOL 5398 - Molecular Genetics

Three credits. Three hours of lecture per week. Prerequisites: Genetics (BIOL 3349) and Cell Biology (BIOL 4350). This course explores how the information content of the DNA genome (i) is organized, propagated, and altered, and (ii) functionally expressed by RNA-regulated transcription— the core molecular properties and processes of genetic systems that delineate all further investigations of organisms, clinics, and population genetics. BIOL5398 will focus on developing a modern and advanced understanding of DNA and RNA molecules, and the processes of replication and transcription. We will explore what experimental research in model organisms and humans has taught us about the molecular coding of genetic information, while also exposing gaps in our knowledge. At all times, attention will be paid to new methods of genome analysis that are dramatically increasing our understanding of the extent of genetic variation and the many modes of gene expression. In addition, students will be introduced to recombinant DNA technologies as an important way to understand molecular genetic knowledge in order to apply it to biological research.

BIOL 5495 - Taxonomy of Floriferous Plants

Three credits. Three hours of lecture and three hours of contact lab per week. Prerequisite: General Biology II (BIOL 3102) or Plant Organismal Biology (BIOL 3410). Availability for field trips during the weekends. Lecture, discussion and laboratory on the concepts, methodologies of the study of plant taxonomy, including advanced identification processes and the latest proposed classifications. It is aimed at students of Biology and Environmental Sciences in order to learn about plant biodiversity, their evolutionary histories, and the processes to identify species.

BIOL 5535 - Contemporary Parasitology (for Biology Specialists).

Three credits. Two hours of lecture and four hours of laboratory time per week. Prerequisite: BIOL 3420, 4031. Discussion of the basic biology, evolution, and physiology of each group of parasites. Examination of the interaction of each group of parasites with the defense system of vertebrate and invertebrate hosts. Emphasis on experimental approach in lectures and laboratories.

BIOL 5538 - Aquatic Entomology

Four credits. Three hours of lecture and three hours of lab per week. Prerequisite: BIOL 3420 (zoology), BIOL 3410 (botany), BIOL 3111 (ecology) or equivalent, or teacher's consent. Graduate students require permission from the department chair. Study of the ecology and taxonomy of insects that inhabit freshwater bodies, such as rivers, lakes, and reservoirs. Emphasis is placed on the study of the immature stages (larvae and nymphs) of aquatic insects with emphasis on the tropical region, but covers all aspects relevant to their study in any other area. The course includes laboratory classes.

BIOL

BIOL 5540 - Limnology

Four credits. Three hours of lecture and three hours of laboratory time per week. Prerequisites: BIOL 3420 (zoology), BIOL 3410 (botany), BIOL 3111 (ecology) or its equivalent, and QUIM 3002 or teacher's consent. Graduate students require permission from the department chair. Introduction to the basic principles of limnology, including physical, chemical, and biological aspects of rivers, lakes, and reservoirs. The course emphasizes tropical limnology, but covers all aspects relevant to study in any other area. Including laboratory and field trips.

BIOL 5548 - Neurobiology

Three credits. Three hours of lecture a week. Prerequisite: BIOL 4545 or BIOL 3010. The study of the nervous system with special attention to its development, physiology, biochemistry and anatomy.

BIOL 5565 - Fungal Biology

Three credits. Three hours of lecture and three hours of lab per week. Prerequisite: BIOL 3410 or BIOL 3770. Morphology, physiology, genetics and reproduction of the main groups of fungi. Emphasis will be placed on the role of fungi in nature and on various human aspects, including topics on biotechnology and plant and animal diseases.

BIOL 5580 - Entomology

Three credits. Three hours of lecture and three hours of lab or fieldwork per week. Prerequisite: BIOL 3420 and instructor's permission. Broad introduction to insect biology, including anatomy, physiology, and development as well as ecology, behavior, and evolution. Emphasis will also be placed on the development of practical skills in the collection, preparation and identification of specimens.

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BIOL 5600 - Marine Biology

Three credits. Two hours of lecture, one hour of discussion, three hours of laboratory work a week, and trips to the field. Prerequisite: BIOL 3111 and permission from the principal or instructor. Exploration of the diversity of marine habitats and the animals that inhabit them, physical and biological factors that can influence the distribution and ecology of organisms in diverse marine environments. Emphasis on Caribbean ecosystems.

BIOL 5900 - Proteomics in the Life Sciences

Three credits. Three hours of lecture and discussion per week. Prerequisite: BIOL 4545 or BIOL 4350. Graduate students permission from the principal. The course will be based on lecture and discussion on fundamental principles, function and characterization of proteins. It is aimed at undergraduate biology students with the purpose of developing an in-depth knowledge about the expression, structure, localization, modification, interaction and function of proteins isolated from different organisms. In addition, the course will prepare the student to understand the role that proteomics plays in the study of biological systems and pathological processes.

CIAM 5231 - Remote Sensing I

Three credits. Two hours of lecture and one hour of research per week. Prerequisite: Admission to the environmental science graduate program or professor's permit. Theoretical and practical study of methodologies for land cover and land use analysis using satellite images. It examines the physical laws essential to the study of remote sensing, systems for imaging, image correction and classification, and interpretation of results. A project is developed where the student performs an analysis to classify land cover and use using satellite images and aerial photographs of islands and tropical regions. This course is required for all students in the environmental science graduate program.

CINA 3001 - Seminar: Environmental Maintenance

No credit. A two-hour lecture period every two weeks. Prerequisite: Permission from the department director. Analysis and discussion of environmental problems and their solutions from the perspectives of different fields of knowledge. Emphasis will be placed on the importance of an interdisciplinary approach to matters concerning regulation, the use of natural resources and the quality of our environment.

CINA 3002 - Seminar: Environmental Maintenance

No credit. A two-hour lecture period every two weeks. Prerequisite: Permission from the department director. Analysis and discussion of environmental problems and their solutions from the perspectives of different fields of knowledge. Emphasis will be placed on the importance of an interdisciplinary approach in matters concerning regulation, the use of natural resources and the quality of our environment.

CINA 3003 - Seminar: Environmental Maintenance

No credit. A two-hour lecture period every two weeks. Prerequisite: Principal's permission. Analysis

and discussion of environmental problems and their solutions from the perspectives of the different fields of knowledge. Emphasis will be placed on the importance of an interdisciplinary approach to matters concerning regulation, the use of natural resources and the quality of our environment.

CINA 3004 - Seminar: Environmental Maintenance

No credit. A two-hour lecture period every two weeks. Prerequisite: Permission from the department director. Analysis and discussion of environmental problems and their solutions from the perspectives of different fields of knowledge. Emphasis will be placed on the importance of an interdisciplinary approach in matters concerning regulation, the use of natural resources and the quality of our environment.

CINA 3005 - Introduction to Environmental Science

Three credits. Three hours of discussion a week. The course is aimed at students with an interest in the study of the interaction between human activities and the environment, highlighting their impact on the biosphere, atmosphere, lithosphere, hydrosphere and anthroposphere. The topics are analyzed in an interdisciplinary way integrating the basic concepts of the discipline with up-to-date scientific knowledge on topics such as energy use, management and conservation of natural resources, cities and human population growth, environmental pollution and waste management, economics, law and environmental ethics. Performance in the course is evaluated through exams, written assignments, among others, and is offered in face-to-face mode.

CINA 3011 - Integrated Science for Special Education Students

Three credits. Three hours of lecture and one hour of demonstration per week. Prerequisites: CIBI 3001-3002, FISI 3001-3002, MATE 3001. Two-semester course for special education students of the College of Education. Concepts from biology, chemistry, and physics relevant to patterns of behavior and learning are discussed, with an emphasis on the exceptional student.

CINA 3012 - Integrated Science for Special Education Students

Three credits. Three hours of lecture and one hour of demonstration per week. Prerequisites: CIBI 3001-3002, FISI 3001-3002, MATE 3001 and CINA 3011. Two-semester course for students in the special education program of the College of Education. Concepts from biology, chemistry, and physics relevant to patterns of behavior and learning are discussed, with an emphasis on the exceptional student.

CINA 3126 - Population, Resources and Environment

Two credits. Three hours of discussion, lecture a week. The course is aimed at any student interested in learning about general demographic theories; population growth and distribution, density, age and sex distribution, and ethnic composition of populations. Emphasis on fertility, mortality, migration and the influence of these parameters on population changes. Interdependencies between populations, environmental resources, technology; the patterns of organization and hypotheses of the mechanisms that promote population stability. The course is assessed through exams, written essays, field trips, among others, and is offered face-to-face.

CINA 3127 - Economics of Puerto Rico's Natural Resources

Two credits. Two hours of discussion or lecture per week. Prerequisite: Instructor's permission. The course is aimed at any student interested in the analysis of problems of development and management of natural resources; importance of natural resources and their impact on economic development; economic principles applied in the inefficient use of natural resources, such as water, land and forest. The course is assessed through short tests, written essays, field trips, among others, and is offered face-to-face.

CINA 3128 - Planning and Regulation of Natural Resources

Two credits. Two hours of lecture or discussion. The course is aimed at providing all students with a general and comprehensive overview of the legal framework that governs the field of environmental protection and the use and management of natural resources. The Constitution of the Commonwealth of Puerto Rico, the most relevant laws, regulations and jurisprudence in the area of environmental protection and conservation and natural resources, as well as their use and development, are the object of study and discussion. Emphasis will be placed on environmental public policy, the content and preparation of environmental impact statements, and the interpretation that judicial and administrative forums have made of the different laws related to the conservation, use, management, and development of natural and environmental resources in Puerto Rico. The course is evaluated through exams, assignments, group discussions, among others, and is offered in person.

CINA 4005 - Special Topics in Mathematics for Scientists

Three credits. Three hours of lecture a week. Prerequisites: MATE 3061-3062. Study of differential equations, linear algebra, matrices and determinants. Differential vector calculus, integral theorems, line and surface integrals. Examples from all areas of science will be selected.

CINA 4071 - Seminar: Environmental Sciences I

A credit. An hour and a half of discussion or lecture per week. Prerequisite: Permission from the instructor or program director. Active participation of students in the discussion and search for solutions to environmental problems. Students will present the research projects they are carrying out.

CINA 4072 - Environmental Science Seminar II

A credit. An hour and a half of discussion or lecture per week. Prerequisites: CINA 4071, permission from instructor or program director. Active participation of students in the discussion and search for solutions to environmental problems. Students will present research projects they are pursuing.

CINA 4085 - Computational Numerical Analysis

Three credits. Two hours of lecture and a three-hour lab a week. Prerequisite: FIS1 3002, QUIM 3002 and instructor's permit. An interdisciplinary course in programming and computer basics for scientific applications with an emphasis on numerical calculations.

CINA 4115 - Modern Physics with Laboratory

Four credits. Three hours of lecture and three hours of laboratory time per week. Prerequisites: FISI 3001-3002 or FISI 3011-3012. Study of the principles of restricted relativity, classical thermodynamics, kinetic theory of gases, rudiments of statistical mechanics, and plasma physics. Study of classical experiments leading to the development of an atomic and nuclear theory such as: the experiment of Compton, Rutherford, Thompson, Bohr's theory and the work of De Broglie.

CINA 4127 - Techniques related to the management and conservation of the environment

Two credits. Three hours of lecture, discussion, lab, or field trips per week. Prerequisites: QUIM 3025, BIOL 3017, CINA 4147. Methods and techniques for accurately measuring and interpreting environmental parameters associated with environmental management and conservation. Discussion of processes such as: mining, oil refining, water purification that directly or indirectly affect the quality of our life. Design, execution and evaluation of related social surveys.

CINA 4147– Geophysics

Three credits. Three hours of lecture a week. Prerequisites: FISI 3001-3002, QUIM 3001- 3002 or taken concurrently. General characteristics of planet earth, its structure and isostasis. The solid earth: rocks and minerals, tectonic movements, the oceanic crust, island arcs, continents. Oceans: composition, structure, currents, waves and tides. The atmosphere: composition, vertical structure, energy balance, precipitation, winds, circulation patterns, climates. The interaction between solid and fluid earth: weathering and transport of rocks, sediments, soil formation.

CINA 4157 - Puerto Rico's Land and Water Resources, Their Management and Maintenance

Three credits. Four hours of lecture, discussion, lab, or field trips per week. Prerequisites: BIOL 3017, QUIM 3002, CINA 4147. The topics of this course are 1) the hydrologic cycle (including precipitation, interception and evaporation, runoff and groundwater flow, 2) watersheds and their components and how they are formed (lakes, ponds, rivers, wetlands, estuaries), 3) the ecology of lakes and streams, including the ecology of communities, energy flow and nutrient cycling, 4) water quality, 5) the impacts of human activity on the above, especially the effects of dams, 6) water management, and 7) climate change and water. The scope is global, but it focuses on the Caribbean.

CINA 4167 - Land Use and Management

Two credits. Three hours of discussion, lecture, lab, or field trip per week. Prerequisites: BIOL 3017, QUIM 3002, CINA 4147. In this course you will use critical thinking skills to understand, analyze and discuss the fundamental principles of land use and management from an environmental perspective. You will apply your knowledge to specific situations so that you can develop strategies to solve environmental planning problems that typically result from the interaction of human activities with the environment. Those aspects relevant to the problems associated with watershed

management within the conceptual and operational framework of sustainable development will be highlighted.

Classroom work, assignments, research project, and field trips will give you the experience that will allow you to apply the concepts learned to the real world. It requires you to be creative and think critically. The exams will measure, among other things, your ability to apply the concepts, techniques and skills you have acquired. After taking this course, your view of the physical world around you will change drastically. The teacher will guide you along the path of conceptual understanding of the environmental processes relevant to the use and management of the land. You are expected to make a serious commitment to developing your observational, analytical, and critical thinking skills through the careful study and application of the knowledge acquired in class.

CINA 4177 - Air Resources, Their Handling and Maintenance

Two credits. Three hours of lecture, discussion, lab, or field trips per week. Prerequisites: FISI 3002, QUIM 3002, CINA 4147. Study of the basic principles and concepts of air pollution, focusing on the atmospheric component, the impacts of air pollution on the environment, the transport and dispersion of air pollutants, dispersion models, control, sampling and analysis techniques.

CINA 4567 - Energy Sources and Transformations

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. The Interdisciplinary study of energy-related topics or "situation studies". The student applies the knowledge acquired in their previous courses to topics of current relevance. It is based on the unifying themes of local science standards that focus on conceptual connections between scientific disciplines. Unifying topics are studied in relevant everyday life situations such as: the development of a high-energy beverage, photosynthesis, the flow of energy in a tropical ecosystem, global warming
y hurricane formation.

CINA 4995 - Selected Topics in Environmental Sciences

One to three credits. Prerequisite: Teacher's permission. Select topics in environmental sciences, such as: solid waste, noise, pollution, remote sensing, geology, etc.

CINA 4996 - Natural Sciences Educational Experience

One to four credits. Ten to forty hours of internship. Prerequisites: Candidates must be third- or fourth-year students in the faculty of natural sciences and/or have permission from the internship coordinator. Depending on the area in which the internship would take place, some specific courses may be required as a prerequisite. For example, biology students are required to have passed the microbiology course and at least one of the following: industrial microbiology, applied microbiology,

or molecular biotechnology laboratory. Chemistry students are required to have passed organic and/or analytical chemistry.

Internship in Environmental Education aimed at providing practical educational experiences and proactive intervention in environmental issues in qualified institutions. It is required to have a minimum of time available in the week equivalent to the number of credits enrolled (10 hours per enrolled credit). It is required to be available and easy to travel independently and/or to appear punctually at the different places of intervention, be it schools, communities, agencies, companies and other public or private spaces around the city.

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CINA 4997 - Research

One to three credits. Hours by agreement. It can be taken up to a maximum of three times for a total of three credits. Prerequisite: Principal's permission. Preparation of the research proposal in Environmental Sciences under the supervision of a qualified mentor according to the selected topic. The proposal calls for; A) definition of the problem, B) literature review, C) definition of a research question and hypothesis, D) description of methodology for data collection and analysis. This course will be offered in the face-to-face modality.

CINA 5015 - Commercialization of Scientific and Technological Innovations and Discoveries

Two credits. One hour of lecture and one hour of discussion per week. Prerequisite: Authorization from the director of the department or program to which the student belongs. Analysis of the historical influences that have prompted invention and scientific and technical research and the role of government/academia/industry in industrial development. Definition and discussion of the application process for patents, copyrights, trademarks and the definition and protection of trade secrets. Exploring how to create markets for different ideas, products, processes, or techniques. Discussion of mechanisms to attract the interest of certain industrial sponsors to some newly created companies ("start-ups"). It also discusses different methods for calculating royalties or other forms of compensation and negotiation techniques for commercializing these discoveries and innovations.

CINA 5990 - Topics in Science, Mathematics or Technology

One to three credits. Two hours of lecture and one hour of seminar per week. Prerequisite: Authorization from the director of the department or program to which the student belongs. Study of specialized topics in science, mathematics or technology, by experts in different specialized areas, who work in industry, government or federal agencies. The student can take it more than once as long as it is with a different theme. (Maximum of nine credits.)

CCOM 3020 - Discrete Mathematics Three credits. Three hours of lecture a week. Prerequisites: MATE 3018, Pre Calculus and Analytical Geometry, or equivalent. This course is designed for students who are in their first or second year in the Computer Science program. Students will learn techniques for doing elementary math demonstrations. The course will also introduce students to topics related to sets and processes that can be enumerated or associated with some subset of the

natural numbers. The topics will be discussed, emphasizing applications of discrete mathematics in different areas of computer science.

CCOM 3030 - Introduction to Computer Science

Three credits. Three hours of lecture per week. This course provides an overview of computer science through its various areas of expertise (e.g., databases, operating systems, networks, artificial intelligence, bioinformatics). It presents fundamentals that allow us to appreciate the relevance and interrelation of the different topics in the area. The course also provides an introduction to problem-solving skills and general concepts of concurrent programming. An A or B grade on CCOM 3030 is required to take the CCOM 3033 course.

CCOM 3033 - Introduction to Computer Programming

Three credits. Three hours of lecture and 1.5 hours of workshop per week. Prerequisite: CCOM 3030 approved with A or B; MATE 3023. The course provides an introduction to the fundamentals of computer programming and problem solving through the development of algorithms, including parallel programming techniques. Students will master the basic pieces of a program starting with control structures using conditional and iterative statements with logical expressions, as well as the definition and use of variables and data types. They will develop procedures and functions for common tasks that are repeated or more complex that require decomposition, including recursive functions. They will use structured data types such as arrays, strings, files, and pointers. In addition, students will be exposed to the structure of the computer: input and output media, memory, and central processing unit. It also includes an overview of the field of Computer Science and its effect on society, including ethical principles in computing. An A or B grade on CCOM 3033 is required to take the CCOM 3034 course.

CCOM 3034 - Data Structures

Three credits. Three hours of lecture and 1.5 hours of workshop per week. Prerequisite: CCOM 3033 approved with A or B; MATE 3024. Abstract data types, their efficient implementation and application to problem solving. Introduction to asymptotic analysis of algorithms. Critical data structures such as queues, stacks, lists, and trees, their efficient deployment, and applications. Introduction to hash-tables, priority queues, and graphs. Basic sorting and search techniques. Introduction to concurrent data structures. The course has three hours of lecture per week and includes a one-and-a-half-hour workshop per week. In the workshop, students will put into practice the concepts learned in class.

CCOM 3981 - Undergraduate Seminar in Computer Science I

A credit. An hour and a half of seminar a week. Prerequisite: CCOM 3030 approved with A or B; MATE 3023. This course is designed for students who are in their first semester in the Computer Science Program. It will allow you to become familiar with topics related to computer science and undergraduate research. You will learn research skills and principles of academic integrity. This is the first step in creating an environment where students are interested and engaged in research activities. It is expected that, by the end of the course, students will have selected a research topic.

CCOM 3982 - Undergraduate Seminar in Computer Science II

Two credits. One and a half hours of seminar and half an hour of independent study per week. Prerequisite: CCOM 3981. This course is designed for students who are in their second semester in the Computer Science program. The course will allow students to be exposed to topics related to computer science and undergraduate research and put into practice what they have learned in the CCOM 3981 course. Students will select a topic, do readings, and prepare an oral presentation and poster on the selected topic; These presentations can be individual or group. Students will have the option to choose an undergraduate research project from some of the professors in the department and make their presentation on the preliminaries of the project. In addition, students will learn about employment opportunities and graduate studies in the area of Computer Science.

CCOM 3986 - Undergraduate Research in Computer Science

Three credits. Three hours of discussion and 10 hours of research a week. Prerequisite: Teacher's authorization. This course will give students in 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 where the progress made and ways to move the research project forward will be discussed. At the end of the semester, each student will submit a technical report; In addition, he will give an oral presentation or prepare a poster presentation of the research carried out. The course may be repeated up to a maximum of 6 credits.

CCOM 4017 - Operating Systems

Three credits. Three hours of lecture a week. Prerequisite: CCOM 3034 and CCOM 4086. Operating systems are the vehicle for user-level applications and serve as protection between these applications and computer resources. The diversity and functionality of computer resources, coupled with running concurrent software processes and serving multiple users, make the design and implementation of operating systems challenging. During this course, we will try to understand these challenges

and the trade-offs involved. Topics covered in the course will include: memory management, multischeduling, virtual memory, paging, segmentation, job and process scheduling, concurrency, sharing, synchronization, processor management, deadlock detection and avoidance, device and file management.

CCOM 4027 - Introduction to Data Management

Three credits. Three hours of lecture a week. Prerequisite: CCOM 3034. Introduction to the basics of organizing and managing files on secondary storage media. Introductory concepts of the database will be discussed. Techniques for managing internal and external files: search, classification, updating, compression, deletion and merging. Organize files on direct and sequential access storage devices. The student will carry out programming projects in which the concepts of the course will be implemented.

CCOM 4029 - High-Level Programming Languages

Three credits. Three hours of lecture a week. Prerequisite: CCOM 3034. This course introduces fundamental aspects of high-level programming languages, including data objects, operations, sequence control, data control, storage handling, syntax, and semantics. In addition, students are exposed to different language paradigms, e.g. imperative, parallel, functional, rule-based (logic), and object-oriented languages. The course provides hands-on experience and allows students to develop moderate-level programs in several programming languages, one for each paradigm

CCOM 4030 - Introduction to Software Engineering

Three credits. Three hours of discussion a week. Prerequisites: CCOM 4029. This course is designed for students who are in their third or fourth year in the Computer Science program. It provides a comprehensive overview of the basic principles and concepts of software engineering. It discusses elements of the software lifecycle, requirements analysis, implementation, verification and validation, as well as ethical issues related to the software development process. In addition, through a group project they gain experience that allows the student to take on positions as software designers and developers.

CCOM 4086 - Computer Architecture I

Three credits. Three hours of lecture per week. Prerequisite: CCOM 3033. In this course, students are exposed to fundamental topics of modern computer architectures. The main objective is to provide students with the knowledge necessary to understand the logical functioning of the main components of modern computers. Among the topics to be discussed are: logical design, data representation, different types of data and memories, registers, the CPU and its organization, construction and operation of buses, input and output devices and their interfaces. Different levels of abstraction of computer architecture are studied: at the logical level, at the micro level, at the machine language level, and at the operating system level. The course also discusses the core attributes of CISC and RISC architectures and points to opportunities for multi-level parallelism within the processor.

CCOM 4087 - Compiler Design

Three credits. Three hours of lecture per week. Prerequisites: CCOM 4017, CCOM 4086, CCOM 4029. Introduction to compilation, simple one-step compiler structure; Syntax and lexical analysis, parsing, introduction to type matching, intermediate code generation, introduction to code generation and optimization. Discussion of compiler design tools (e.g. Lex, yacc).

CCOM 3031 - Introduction to Data Science

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3030 or CCOM 3026. Data Science is an interdisciplinary field that requires statistics, computation, and domain expertise to solve complex problems by extracting knowledge from large data repositories. This course is

an introductory, applied, collaborative programming elective class that brings together students from different disciplines, including biology and other natural sciences, statistics, computer science, and other areas, to work on local, culturally relevant projects, using real datasets. By the end of this course, students will be able to clean and manipulate data, use relevant data science libraries to analyze, and visualize data for conclusions. Students will develop statistical thinking skills and become familiar with the collaborative, interdisciplinary tools needed for projects they may encounter in summer internships and future research experiences.

CCOM 4065 - Linear Numerical Algebra

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3033, MATE 3151. In this course, you will study numerical methods to solve matrix algebra problems. The algorithms will be studied and implemented on the computer using a high-level programming platform. Test problems will be used to illustrate the strengths and weaknesses of the methods. Topics to be studied include: properties of matrices, floating-point representation for real numbers, methods for solving linear systems (direct and iterative), least squares, and calculus eigenvalues of matrices. At the end of each topic, an example of a real-life problem for which one of the methods discussed is needed to solve the problem will be presented.

CCOM 4088 - Cyber Security

CCOM 4088 - Cybersecurity

Three credits. Three hours of lecture a week. Prerequisite: Basic knowledge of Unix, teacher approval. In this course, students will recognize the physical and logical architecture of the Internet, and the basic principles of information security. By interacting with clients and servers on the network, they will assess why networked systems are vulnerable to cyberattacks. You will distinguish how the five pillars of information security (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. Hands-on techniques will serve to motivate students to evaluate in depth more advanced techniques, and the mathematical foundations of cybersecurity (discrete mathematics, cryptography). This course will be offered in face-to-face, hybrid and online modalities.

CCOM 4205 - Computer Networking

Three credits. Three hours of lecture a week. Prerequisites: CCOM 4017. This course is designed for students who are in their third or fourth year in the Computer Science program. It provides a comprehensive overview of computer communications networks. The fundamental elements of a network are discussed, including physical characteristics, design, and protocols. The mechanisms and protocols used to establish communication routes are also discussed. Some of the most widely used applications on the Internet are presented and their protocols are discussed.

CCOM 4089 - System and Network Security

Three credits. Three hours of lecture a week. Prerequisites: CCOM 4088 and one of the following CCOM 4086 or

CCOM 4017 or CCOM 4205.

Elective course designed for undergraduate students of Computer Science consisting of lectures with interactive exercises and workshops. Students will learn secure techniques for managing information systems and networks. They will have hands-on experience managing information systems using key Internet services, learn about important information systems security issues, and be exposed to tools for analyzing, defending, and securing information systems and networks.
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CCOM 5035 - Theory of Computability

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3034 and MATE 4081. This course discusses fundamental concepts, ideas, and models of the theory of computation. A basic introduction to automata theory and languages is presented, as well as an introduction to some aspects of computability theory, such as Turing machines and decidability. Concepts from complexity theory, such as NP-completeness, are also given.

CCOM 5050 - Algorithm Design and Analysis

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3034, MATE 3152. Basic combinatorial and counting techniques. Mathematical induction. Recurrence relationships and closed-form solutions. Asymptotic notations, definitions, and properties. General techniques for the development of algorithms and data structures suitable for the solution of typical problems, their proofreading, and their asymptotic behavior in terms of time and space in the worst-case and average. Dictionary of data structures and their algorithms for access, indexes, search and classification. Algorithm graphs, string algorithms, sequence algorithms, polynomials, and matrix algorithms, and their applications. Introduction to parallel algorithms and computational complexity.

CCOM 5060 - Parallel Processing

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3034. This course is designed for students who are in their fourth year in the computer science program. It offers a broad view of parallel systems covering the following topics. Fundamental concepts of parallel computing and parallel architectures, programming systems with distributed memory (per message pass) and with shared memory, design of parallel algorithms, implementation, benchmarking and performance analysis: performance metrics, scalability and execution times. This course discusses standard tools used in high-performance applications, implementing message-pass and memory-sharing programs, and hybrid systems of these, as well as high-level tools such as functional languages. This course also discusses ethical issues concerning the use of parallel computing.

CCOM 4702 - Reverse Engineering

Three credits. Three hours of lecture a week. Prerequisites: CCOM 4086. Elective course designed for undergraduate students of Computer Science consisting of lectures with interactive exercises and workshops. Students will learn various techniques to deduce the operation and coding practices of a program from its executable and make adjustments such as circumventing licensing mechanisms and making changes or using functionalities (within the laws that protect the intellectual property of the program). They will analyze malware and learn recognized reverse engineering prevention techniques and strategies to counter them.

CCOM 4101 - Introduction to Computer Graphics

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3034 and MATE3151. Elective course designed for undergraduate students of Computer Science consisting of lectures with interactive exercises and programming. This course introduces computer graphics from the programmer's point of view. The topics covered will cover both the fundamentals of the field and its implementation in modern computer systems: fundamentals of image representation, processing, storage, and display; two- and three-dimensional graphics modeling and rendering; Animated and interactive graphics.

CCOM 5002 - Machine Learning

Three credits. Three hours of lecture a week. Prerequisites: CCCOM3034, (MATE4031, CCOM4065 or equivalent), MATE 5001. Elective course designed for advanced undergraduate students of Computer Science consisting of lectures with programming and interactive exercises. Machine learning is the field of study so that computers can perform tasks without being explicitly programmed. The aim 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. Special attention will be paid to the linear model because of the theoretical insights it provides, and the deep neural network models, which give the best results for many complex learning tasks. The mathematical underpinnings of the selected approaches will be discussed, as well as the practical implementation of a complete learning system.

CCOM 5001 - Image Analysis and Computer Vision

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3034, (MATE4031 or CCOM4065). Elective course designed for advanced undergraduate students of Computer Science consisting of lectures with interactive exercises and programming. Computer Vision studies the algorithms and models that allow machines to automatically extract information from images and videos. This course provides an introduction to computer vision through the study of three main aspects: digital image processing at the pixel level, machine learning of visual models, and fitting to geometric models. Each topic will be complemented by hands-on programming labs with applications such as image segmentation, image alignment, and object recognition.

CCOM 4365 Fundamentals of Ethics in Computing

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3030 or CCOM 3031. The purpose of this course is to expose Computer Science students to the discussion and analysis of ethical conflict situations to which they will be professionally exposed. 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 of computer professionals as instruments of change and social justice will be discussed. Students will have the opportunity to reflect on the social and humanitarian aspects of the impact of technology, in a way that allows them to develop the necessary tools to make decisions. This course will be offered in face-to-face, hybrid, and online modalities.

CCOM 4301 - Transdisciplinary Research Based on the Application of Data Science

Three credits. Three hours of lecture a week. Prerequisites: CCOM 3031 and CCM 4365. In this course, students will develop a transdisciplinary project based on the application of data science in various branches of knowledge. 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, and a great impact in some other related field. This is done through the process of developing the project through problem setting, 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 in face-to-face, hybrid and online modalities.

CCOM 6029 : High-Level Programming Languages

Three credits. Three hours of lecture a week. The course completes programming language education, exposing the student to concepts such as: syntax, semantics, and elements of the three most well-known programming paradigms which are imperative, functional, and logical. It provides answers 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 in face-to-face, hybrid and online modalities.

CCOM 6050 - Algorithm Design and Analysis

Three credits. Three hours of lecture a week. The course is 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. The methods of asymptotic, amortized and probabilistic analysis 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 in face-to-face, hybrid and online modalities.

CCOM 6035 - Application Development with Social Impact

Three credits. Three hours of lecture a week. The course gives students the opportunity to develop

an app that will have a direct impact on the community and society. This is done through group work under the supervision of a teacher following the methods and mindsets of co-design 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 needed 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 under face-to-face and hybrid modalities.

CCOM 6996 - Master's Thesis

Three credits. Prerequisites: Permission from the teacher. The course allows the student to delve into the selected topic and conduct research that leads to the preparation of the master's thesis. It is expected that the resulting work will be expository in nature related to the courses taken and written in a format that follows the guidelines of our departmental manual. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6997 - Master's Project

Three credits. Prerequisites: Permission from the teacher. The course is for students to undertake the planning and development of 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 in face-to-face, hybrid and online modalities.

CCOM 6189 - High Performance Computing

Three credits. Three hours of lecture a week. The course is an elective in which high-performance computing systems are designed: clusters, co-processors, interconnecting networks, parallel file systems. Students will learn techniques for designing software that achieves high performance in these systems, such as performance measurement and the factors that determine it. Practical experiences will be had applying the skills acquired in scientific computing problems. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6017 - Operating Systems

Three credits. Three hours of lecture a week. In this graduate course, you will be introduced as operating systems as a vehicle for user-level applications, their usefulness of being the gatekeeper between applications, the diversity and functionality of computer resources. This is done through the topics of 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 in face-to-face, hybrid and online modalities.

CCOM 8995 - Advanced Topics in Computer Science

Three credits. Three hours of lecture a week. In this course the student undertakes a detailed study on one or more specific advanced topics in Computer Science. Given the changing nature of the area, topics will vary frequently. The course offers students the opportunity to learn about current

advanced topics related to Computer Science. The course can be taken multiple times if the topics are different. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 8050 - Advanced Topics in Algorithm Design and Analysis

Three credits. Three hours of lecture a week. Prerequisites: CCOM 6050. In the course the student will undertake a detailed study on one or more specific topics in Algorithm Design and Analysis. The topics of this course are expected to be theoretical in nature. The course offers students the opportunity to learn about current topics related to Algorithm Design and Analysis. The course can be taken multiple times if the topics are different. Examples of topics include greedy algorithms, online algorithms, and streaming algorithms. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6150 - Data Mining

Three credits. Three hours of lecture a week. The course provides an overview of the main topics of data mining and algorithmic background. Students are exposed to hands-on experiences of analyzing large data sets to uncover properties, hidden relationships, and organize data in ways that are useful for analyzing it. Topics include data modeling, frequent itemset mining, clustering, classification, sketching, dimensionality reduction, regression, link analysis classification, network statistics, and importance measures for links and nodes. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 8999 - Advanced Research in Computer Science

Three credits. Three hours of lecture a week. In this course the student will conduct extensive research in an area of Computer Science. The course offers students the opportunity to develop as researchers using all the skills necessary to carry out the course. The course can be taken multiple times if the topics are different. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 8017 - Advanced Topics in Operating Systems

Three credits. Three hours of lecture a week. Prerequisites: CCOM 6017. In the course the student will undertake a detailed study on one or more specific topics in Operating Systems. The topics of this course are expected to be theoretical in nature. The course offers students the opportunity to learn about current topics related to Operating Systems. The course can be taken multiple times if the topics are different. Examples of topics are operating system methods on multi-core computers, multi-thread control, and distributed systems concepts. This course will be offered in face-to-face, hybrid and online modalities.

ASTR 3005 - Descriptive Astronomy

Three credits. Three hours per week. Prerequisite: Four basic areas of Astronomy are studied in a general way: i) Fundamentals of Astronomy: Observations with the Eye Eye, Models of the Cosmos, Gravitation, Newton's Laws of Motion, Electromagnetism, Waves, Light, Blackbody Radiation, Bohr's Model for the Atom, Spectral Lines, Doppler Effect ii) The Solar System iii) Stellar Evolution iv)

Galaxies and the Universe The historical aspect of discoveries, as well as including some of the modern discoveries. The aim is to emphasise the relationship of discoveries in astronomy to society. The student is expected to have general knowledge of algebra. It is an introductory course where topics are discussed qualitatively.

ASTR 3055 - Cosmic Evolution

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Have passed 24 university credits. This course offers the student an integrated view of science. It tries to mitigate the consequence of the division by disciplines and departments. At the same time, it helps students from other faculties to become interested in and value science. The student is presented with a course that integrates several areas of science within a context that studies the long process of evolution of our universe, all the way to us. Topics from astronomy, physics, chemistry, geology and biology are integrated to deal with this history, without losing sight of the most significant milestones in the history of science and its protagonists, beginning with the Copernican revolution. The character of empirical proof and the mathematical and statistical nature of many phenomena are emphasized, illustrated with examples (Kepler's laws, tidal forces, blackbody radiation, radioactive decay, etc.). The issue of what is science and what is not, and the relationship of science with society is integrated into the discussion and issues are dealt with within a context that goes beyond the mere transmission of information. In other words, it attempts to elucidate the meaning, within the historical context, of several discoveries that have been key to understanding what scientific knowledge tells us in relation to our place in the universe.

ASTR 4006 - Physical Astronomy

Three credits. Three hours of lecture a week. Prerequisite: FISI 3001-3002 or FISI 3011-3012. Introduction of the application of physics to the study of stars and star systems. Radiation transfer; stellar spectra and their classification, stellar structure, and evolution; galaxies, the interstellar medium; extra-galactic objects; extraterrestrial life.

FISI 3001 - General Physics I

Three credits. Three hours of reading a week. A general study of the main topics of physics.

FISI 3002 - General Physics II

Three credits. Three hours of readings a week. Prerequisite: FISI 3001. A general study of the main topics of physics.

FISI 3003 - General Physical Laboratory I

A credit. Three hours of lab time a week. An essential requirement for all students in the College of Natural Sciences. Laboratory accompanying physics course 3001-3002.

FISI 3004 - General Physical Laboratory II

A credit. Three hours of lab time a week. An essential requirement for all students in the College of Natural Sciences. Laboratory accompanying physics course 3001-3002.

FISI 3009 - Introductory Physics Laboratory I

A credit. Three lab hours a week. Prerequisite: FISI3011 or 3012 concurrently. Several laws of physics and their relationships, which were studied in the general physics course, will be tested in the laboratory. The student will acquire the basic skills necessary for more advanced experimental work. The first semester covers the areas of geometric and mechanical optics. The second semester covers the areas of physical optics, nuclear physics, and electrical circuits.

FISI 3010 - Introductory Physics Laboratory II

A credit. Three hours of lecture a week. Prerequisite: FISI 3009, FISI 3011 or 3012 concurrently. Several laws of physics and their relationships, which were studied in the general physics course, will be tested in the laboratory. The student will acquire the basic skills necessary for more advanced experimental work. The first semester covers the areas of geometric and mechanical optics. The second semester covers the areas of physical optics, nuclear, and electrical circuits. A credit. Three hours of lecture a week. Prerequisite: FISI 3009, FISI 3011 or 3012 concurrently this course was replaced by FISI 3014.

FISI 3011 - University Physics I

Three credits. Three hours per week. Prerequisite: MATE 3151 and FISI 3013. It is the first part of the introductory calculus-based physics course for undergraduate students in science, education, and others. Topics such as: kinematics, Newton's laws, work, energy, linear momentum, rotation, angular momentum, among others, are discussed. Emphasis is placed on the use of quantitative reasoning to solve problems. This course will be offered in face-to-face, hybrid and online modalities.

FISI 3012 - University Physics II

Three credits. Three hours of lecture a week. Prerequisite: FISI 3011 or FISI 3001, MATE 3151, MATE 4031. Second part of the introductory course in Physics with calculus for science students. It includes the topics: Fluids, Electrostatics, Electric Current, Magnetostatics, Faraday's Law, Electromagnetic Waves. This course will be offered under face-to-face, hybrid modalities y online.

FISI 3013 - University Physics Laboratories I

A credit. Three hours of lab time a week. Prerequisite: FISI 3011 concurrently. Laboratory course that provides experimental activities important for the University Physics I course (FISI 3011). Experiments are designed as exploratory activities where students learn by doing and observing. Computers are used for data collection, analysis, and report preparation. This course will be offered in face-to-face, hybrid and online modalities.

FISI 3014 - University Physics Laboratory II

A credit. Three hours of lab time a week. Prerequisite: FISI 3011 or 3012 concurrently. This course will complement the knowledge acquired by the student in class. It consists of a series of experiments aimed at verifying the laws of electricity and magnetism mainly.

FISI 3016 - Introduction to Modern Physics

Three credits. Three hours of lecture a week. Prerequisite: FISI 3012. An introductory course in contemporary physics with an emphasis on descriptive aspects. The Special Theory of Relativity. The Origins of Quantum Physics: Particle Properties of Electromagnetic Radiation, Blackbody Spectrum, Photoelectric Effect, Compton Scattering, X-Rays. Wave Properties of Material Particles, Broglie Wave, Wave-Particle Duality, Uncertainty Principle. Models of atoms, atomic spectra, Bohr-de Broglie atom.

Correspondence principle, simple ideas of wave mechanics and the hydrogen atom spin. Electronics electron configurations in atoms and the periodic table. Introduction to the properties of condensed matter, the atomic nucleus, atomic nucleus, and elementary particles.

and

FISI 3017 - Energy Production, Technology and the Environment

Three credits. Three hours of lecture a week. Prerequisite: FISI 3001-3002. Study of the physics of energy production, existing and potential technologies, their economic and environmental implications. The concept of energy, its conservation, and the second law of energy thermodynamics; energy conversion; energy demands and their costs; contamination; Optimization of energy systems.

FISI 3021 - General Elementary Physics I

Four credits. Three lectures and a three-hour lab period per week. Prerequisite: For students of physical therapy and related fields. Elementary principles and applications of physics.

FISI 3022 - General Elementary Physics II

Four credits. Three hours of lecture and three hours of lab per week. Prerequisite: FISI 3021. Introduction to the following fundamental concepts: sound, electricity, electromagnetism, optics, electromagnetic waves. The application of these physical principles in the paramedical sciences.

FISI 3025 - Modern Elementary Physics

Three credits. Prerequisite: FISI 3002. Study of modern concepts of physics, such as the theory of relativity, quantum theory, concepts of quantum mechanics, electronic configurations of the atom. General applications to chemistry, biology, medicine, and other fields.

FISI 3061 - Electromagnetism I

Three credits. Three hours of lecture a week. Prerequisite: FISI 3001-3002. Intermediate-level study of the fundamental laws of electromagnetic phenomena. Electrostatic and magnetostatic. Use of Scalar and Vector Potentials: Laplace's Equations

one

and Poisson. Multipolar fields. Electromagnetic field energy. Charge conservation and continuity equation. Electromagnetic induction. Maxwell's equations. Lorentz Force and movement of particles in electromagnetic fields (wave propagation). Interference, diffraction and polarization phenomena. Interaction of radiation and matter.

FISI 3062 - Electromagnetism II

Three credits. Three hours of lecture a week. Prerequisite: FISI 3001-3002, FISI 3061. Intermediate study of the fundamental laws of electromagnetic phenomena. Electrostatic and magnetostatic.

Using Scalar and Vector Powers: Laplace Equations

and Poisson. Multipolar fields. Electromagnetic field energy. Charge conservation and continuity equation. Electromagnetic induction. Maxwell's equations. Lorentz Force and movement of particles in electromagnetic fields (wave propagation). Interference, diffraction and polarization phenomena. Interaction of radiation and matter.

FISI 3171 - Physics I

Four credits. Prerequisite: MATE 3018 or MATE 3171-3172 (precalculus), FISI 3173 (Physics Laboratory I), MATE 3151 (Calculus I). First part of a calculus-based introductory physics course for students, designed to give them a solid background in classical physics that prepares them to take higher-level physics courses. Includes: Kinematics; Newton's Laws; Work, Energy and Energy Conservation; Collisions and Conservation of Momentum; Rotational kinematics; Torque and angular momentum; Balance; Waves and sound. This course provides the tools for students to develop (1) a basic understanding

(1) a basic understanding of the laws of Classical Physics and their application; (2) mastery of mathematics used to solve physics problems; (3) problem-solving skills and strategies; (4) ability to communicate in writing and orally their understanding of the concepts of physics and their application to problem solving.

FISI 3172 - Physics II

Four credits. Prerequisite at UPR Rio Piedras: FISI 3171. Principles of electricity, magnetism, and modern physics for engineering and science.

FISI 3173 - Physics Laboratory I

Three credits. Prerequisite: FISI 3171 or FISI 3011. This course will complement the knowledge acquired by the student in class. It consists of a series of experiments aimed primarily at verifying the laws of mechanics.

FISI 3174 - Physics Laboratory II

A credit. Experiments in electricity, magnetism and modern physics to complement the physics II course.

FISI 4031 - Methods of Mathematical Physics

Three credits. Three hours of lecture a week. Prerequisite: MATE 3152. This is the first part of the introductory course to Mathematical Physics for undergraduate Physics students for Physics students.

FISI 4032 - Methods of Mathematical Physics

Three credits. Three hours of lecture a week. Prerequisite: FISI 4031. Selected topics from ordinary and partial differential equations, special functions, vector analysis, series, numerical analysis, and elements of complex variables.

FISI 4041 - Special Topics in Physics

Three credits. Three hours of lecture a week. This course studies astrophysics on a galactic and extragalactic scale. Topics will include the properties and evolution of the Milky Way, its components of star, gaseous, and dark matter, the formation of structures (such as galaxies) in the universe, and the cosmological evolution of the universe on a large scale.

FISI 4042 - Special Topics in Physics

Three credits. Three hours of lecture a week. Topics selected according to the needs of the student.

FISI 4043 - Solid State Physics I

Three credits. Three hours of lecture a week. Prerequisite: FISI 4131. Study of the following topics: the forms of interatomic bonds and classes of solids. Symmetry operations in a crystal and lattice types. Techniques for the determination of crystal structure. X-ray diffraction. Reciprocating reticulum. Defects in solids. Reticle dynamics. Movement of waves in a lattice. Vibration and dispersion ratios and thermal properties of solids.

FISI 4046 - Elements of Quantum Mechanics

Three credits. Three hours of lecture in the week. Prerequisite: FISI 3016, FISI 4031, FISI 4051, FISI 4068. The objective of this course is to give an introduction to the basic concepts in quantum mechanics. During the semester the student is expected to understand the need for a new approach (different from classical mechanics) to describe microscopic systems.

FISI 4047 - Introduction to Solid State Physics I

Three credits. Three hours of lecture a week. Prerequisite: FISI 4031, 4046 and MATE 4031. An introduction to solid-state physics for students with a concentration in physics. Crystal structure, coherent forces, and elastic properties. Crystalline lattice vibrations: thermal properties of insulating materials. Electronic structure of metals and semiconductors; Transport properties. Optical phenomena. Magnetism and cooperative phenomena. Emphasis on experimental techniques of solid-state physics.

and

FISI 4048 - Introduction to Nuclear Physics

Three credits. Three hours of lecture a week. Prerequisites: FISI 4046, 4032 and MATE 4031. An

introduction to nuclear physics for students with a concentration in physics. Overview of the atomic nucleus. Relativistic dynamics. Experimental techniques. Radioactivity; nuclear reactions. Nuclear forces. Models of nuclear structure; Layered model. Elementary theory of dispersion. Reactors. High Energy Physics; elementary particles; Reactions; Symmetry of elementary particles.

FISI 4049 - Electronic Circuits and Measurements

Four credits. Three hours of lectures and a three-hour lab period per week. Prerequisite: FISI 3002. Designed to give the science student useful knowledge in the electronic circuits of research and control instruments. Study of thermionic valves, transistors, energy sources, amplifiers used in measurements and control, oscillators, servomechanisms, wave and pulse formation, counting, switching, digital and analog circuits, basic instruments and spurious signals.

FISI 4051 - Intermediate Mechanics I

Three credits. Prerequisite: FISI 3001-3002. Parallel Mathematics: Vector Algebra Vector Calculus Gradient, Divergence, and Curl Line Integral, Gaussian Theorems, Divergence, and Stokes The differential equations needed for the course will be given in class.

FISI 4052 - Intermediate Mechanics II

Three credits. Prerequisite: FISI 3001-3002. Intermediate study of the fundamental laws of classical mechanics. Kinematics and dynamics of one-, two- and three-dimensional particles, including the development of the necessary mathematical methods. Fundamentals of Newtonian mechanics. Particle-to-particle collisions. Motion in non-inertial systems. Motion of rigid bodies, oscillatory motion. Variational principles and LaGrange's equations. Movement in a central force field. Systems with many degrees of freedom, small oscillations, and normal coordinates. The wave equation. Elements of statistical mechanics with application to thermodynamics.

FISI 4055 - X-Ray and Crystal Structure

Three credits. Two lectures and a three-hour lab period per week. Prerequisite: FISI 3025. X-ray production, absorption and scattering, x-ray spectrum, crystal diffraction, reciprocating lattice, imperfect crystal and liquid scattering, applications to solid state physics, biophysics and physical metallurgy.

FISI 4056 - Modern Optics

Three credits. Three hours of lecture a week. Prerequisite: FISI 3061. Wave theory in its application, interference and diffraction phenomena, solid optics; lasers; holography, nonlinear optics and other topics of modern optics. Application of these principles to the design and operation of modern optical instruments.

FISI 4057 - Thermodynamics and Statistical Mechanics

Three credits. Three hours of lecture a week. Prerequisites: FISI 4051 and FISI 4031. Axiomatic presentation of thermodynamic laws at the intermediate physics course level. Application of these laws to electrical, magnetic, and solid systems. Introduction to fluctuation theory. [Introduction to](#)

classical statistical mechanics, canonical and microcanonical sets. The statistics of the ideal gases of Boltzmann, Bose and Fermi and their relationship to physical systems will be studied.

FISI 4058 - Non-Graduate Research

Three credits. Prerequisite: Teacher's permission. The student works under the guidance of a qualified researcher who assigns him or her a research project or sub-project. The student and advisor meet regularly and discuss the progress of the assigned tasks and the course of action to be taken. Through this course, the student gains direct experience with the culture of scientific research while becoming aware of current research trends.

FISI 4068 - Electromagnetism I

Three credits. Prerequisite: The student is expected to have basic knowledge of algebra. Four basic areas of Astronomy are studied in a general way:

i) Fundamentals of Astronomy: Observations with the Eye, Models of the Cosmos, Gravitation, Newton's Laws of Motion, Electromagnetism, Waves,

Light, Blackbody Radiation, Bohr Model for the Atom, Lines

spectral, Doppler effect

ii) The Solar System

iii) Stellar Evolution

iv) Galaxies and the Universe

The historical aspect of the discoveries is discussed, as well as including some of the modern discoveries. It's about emphasizing the relationship between the

discoveries in astronomy with society. The student is expected to have general knowledge of algebra. It is an introductory course where topics are discussed qualitatively.

FISI 4069 - Electromagnetism II

Three credits. Prerequisite: FISI 3001-3002. Intermediate study of the fundamental laws of electromagnetic phenomena. Electrostatic and magnetostatic. Use of scalar and vector potentials: Laplace and Poisson equations. Multipolar fields. Electromagnetic field energy. Charge conservation and continuity equation. Electromagnetic induction. Maxwell's equations. Lorentz force and particle motion in electromagnetic fields (wave propagation). Interference phenomena, diffraction and polarization, interaction of radiation and matter.

FISI 4076 - Intermediate Laboratory I

Two credits. Six hours of lab per week. The Intermediate Physics Laboratory (IPL) and the Advanced Physics Laboratory (APL) will introduce you to various modern experimental techniques in many physical disciplines, such as optics, electronics, atomic and nuclear physics, solid state physics, electromagnetism, semiconductor physics, quantum mechanics, etc. You will be responsible for

conducting scientific experiments and verifying them by analyzing the observed data. It is very important that you understand the errors in your data.

FISI 4077 - Intermediate Laboratory II

Two credits. Six hours of lab per week. Prerequisite: Permission from the department director. Fundamental experiments in optics, thermodynamics, electrodynamics, mechanics and atomic physics.

FISI 5005 - Introduction to Biological Physics.

Three credits. Three hours of lecture a week. Prerequisite: FISI 3012, MATE 3151, BIOL 3101 or their equivalents and permission of the department director. Application of physics concepts to the understanding of the cell and life in general. This includes the basic concepts of mechanics, such as: conservation of energy, statics and equilibrium conditions, harmonic movements; analogous concepts of thermodynamics (temperature, entropy, equation of state, Boltzmann distribution). In addition, other concepts of physics applications are introduced, among which are the "randomwalk, and diffusion".

METE 3901 - Meteorological Microsatellites I

Three credits. Three hours of contact. Prerequisite: Teacher's permission. This course provides experience in the design of meteorological microsatellites, including the application of concepts and techniques of telemetry, electronics, microprocessor programming, optics, telecommunications, and tracking using the Global Tracking Network (GPS). It is aimed at students of science and other faculties interested in the instrumentation and collection of atmospheric data. It includes balloon launch, tracking and recovery activities.

microsatellites.

METE 3902 - Meteorological Microsatellites II

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: METE 3901- Meteorological Microsatellites I and teacher's permission. This course provides advanced experience in the design and development of meteorological microsatellites. It emphasizes the development of a reusable system, capable of atmospheric sampling and transmitting data in real time, which requires complex programming of microprocessors and the active use of the tracking system (global tracking network or GPS) to exercise control functions over the devices on board the microsatellite. It is aimed at students of science and other faculties interested in accessing a more advanced level of scientific instrumentation experience for atmospheric sampling and real-time remote data acquisition. It includes balloon launch, tracking and recovery activities of the microsatellites.

METE 4005 - Meteorological Aspects of Environmental Pollution

Three credits. Three hours of lecture a week. Prerequisite: FISI 3001-3002. Thermodynamics course or its equivalent. Course and dispersion of pollutants produced by intense individual sources. Diffusion models. Urban transport of pollutants. The effect of different wind systems, atmospheric stability, topographic features, and regional circulations on the distribution of air pollution.

METE 4006 - Introduction to Meteorology and Climatology

Three credits. Introduction to the physical processes that cause the phenomena responsible for our climate. Emphasis on tropical meteorology and applied topics such as weather forecasting and the description of visual phenomena such as rainbows. Discussion of the evolution of climate on scales of hundreds and thousands of years.

CNEI 3005

Lecture and discussion on topics that influence and determine our knowledge of the world—information processing, cognitive biases, logical inferences, probabilities, and fallacies. It is aimed at students of any faculty in order to help them improve their reasoning habits, and thus be able to navigate more successfully in this (dis)computing world. It's about determining which intellectual habits deserve respect and which don't.

CNEI 3015

Through lectures, readings, and group discussions, students from first year onwards will analyze the scientific foundations related to climate change and the challenges projected for Puerto Rico and worldwide. The interdisciplinary approach of the course promotes the critical analysis of the impact of climate change on the planet's natural systems and on the socio-economic structures of human populations. Students will carry out individual and group projects and oral reports proposing strategies to mitigate problems associated with the impact of climate change on the environment, human health, the economy and other social aspects.

CNEI 4011 - Interdisciplinary Integration I

A credit. An hour and a half of seminar a week. Prerequisite: Principal's permission. By attending workshops, lectures, and individualized mentoring, students from the third year onwards of the interdisciplinary program in natural sciences will develop a project proposal for the interdisciplinary integration of the disciplines emphasized during their undergraduate training. The proposal will be presented in written and oral form at the end of the semester.

CNEI 4012 - Interdisciplinary Integration II

Two credits. Two hours of seminar per week. Prerequisite: CNEI 4011 and direct permit. Students in the interdisciplinary program in natural sciences will collect and analyze data, produce a written scientific report, and present a poster of the proposed interdisciplinary integration project.

CNEI 4015

Students in the Faculty of Natural Sciences, from second year onwards, will learn how scientific research is responsibly conducted, including aspects related to ethics, the use of humans and animals in research, and intellectual property, among other topics. Educational strategies include class discussion, case studies, and group projects.

CNEI 4201

This course studies the interrelationship between the biological and ecological dimension and the social dimension in two central themes for society: health and the environment (and the interrelationship between them) in order to 1) generate more complete solutions to these issues and 2) contribute to a better understanding of scientific objectivity, an essential element for the protection of health and the environment. The course proposes to make a contribution to an integrative interdisciplinary education, as a counterpoint to the fragmented education in disciplines and specialties that students often receive in their baccalaureate. This will be accomplished through weekly readings, presentations, lecture videos, documentaries, and class discussions. The course is intended for students of concentrations in the Interdisciplinary and Biology Program or any interested Natural Sciences student from third year onwards.

MATE 3001 - Introductory Mathematics I

Three credits. Three hours of lecture a week. Basic notions 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, applications and the quadratic equation.

MATE 3016 - Introduction to Mathematics

Three credits. Three hours of lecture a week. Prerequisite: No credit for students in the faculty of natural sciences. Basic notions in set theory and logic. Number systems. Review of arithmetic operations, factorization, exponents. Linear equations in a variable and its graphs. Systems of linear equations.

MATE 3017 - Introduction to Programmable Handheld Calculators

A credit. Two hours of lecture per week. Prerequisite: Principal's permission. Pre-programmed scientific functions, flowchart, programming basics, cycles, memory arithmetic, decisions, labels, data manipulation, accuracy, subroutines, scientific applications.

MATE 3018 - Preparatory Course for Calculus and Analytical Geometry

Four credits. Four hours of lecture and one hour of discussion per week. Prerequisite: MATE 3001 or equivalent. Basic concepts of logic and set theory. The body of real numbers, inequalities, absolute value, subsets of real numbers. Natural numbers. Induction testing. Binomial theorem. Successions and series, succession limits. Functions, algebra of functions, graphs. Analytic geometry. The field of complex numbers, polynomials over complex numbers. The fundamental theorem of algebra. Trigonometric functions. Inverse trigonometric functions. Exponential and logarithmic functions.

MATE 3019 - School Geometry

Three credits. Prerequisite: Primarily for math teachers. Study of Euclidean geometry with emphasis on advancing the proof of propositions and theorems. Axioms of incidence, of distance, of

interposition, of separation from the plane, of angles and on the construction of segments. Axioms of parallels. Basic axioms and theorems related to the congruence and similarity of triangles. Elementary properties of quadrilaterals. Constructions with ruler and compass. Basic axioms and theorems about the areas of polygonal regions.

MATE 3171 - Precalculation I

Three credits. Three hours per week. Prerequisite: MATE 3001, Introduction to Mathematics I. Real Number Systems, Equations, Inequalities, Cartesian Plane, Distance, Midpoint, Circle. lines, basic functions, transformations, operations with functions, inverse function, complex numbers, polynomial functions, rational functions.

MATE 3172 - Precalculation II

Three credits. Three hours per week. Prerequisite: MATE 3171 or equivalent. Exponential functions, logarithmic functions, trigonometric functions, systems of equations, matrices, determinants, sequences, and series.

MATE 3025 - Introduction to Computer Teaching.

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission. Introduction to Computer Teaching. Design and implementation of computer-based teaching modules through the use of high-level languages.

MATE 3026 - Introduction to Computer Statistics

Three credits, three hours of lecture a week. Prerequisite: MATE 3172 or equivalent MATE 3018. Exploratory data analysis. Probability Theory. Random variables. Discrete and continuous sample distributions. Estimation. Hypothesis testing. Correlation and regression. The use of the computer in the simulation of randomized experiments. The student will carry out programming projects in which the concepts of the course are implemented.

or

MATE 3027 - Statistical Methods

Three credits. Three hours of lecture a week. Prerequisite: MATE 3026. Sample distributions. Hypothesis testing. Non-parametric methods. Introduction to analysis of variance. Design of experiments. Multiple and polynomial regression. Verification of regression models and remedial measures. Inferences in regression analysis. Special attention will be given to techniques that are important in the natural sciences and their implementation using computerized statistical programs.

MATE 3028 - Introduction to Computer Programming

Three credits. Three hours of lecture and two hours of lab per week. Prerequisite: MATE 3018. The study of a high-level computer language: writing programs of moderate complexity using structured programming techniques and stepwise refinement. Basic programming concepts such as control structures. Data input and output. Simple, structured data types. Functions and procedures.

MATE 3030 - Superior Geometry

Three credits. Prerequisite: MATE3018. A review of Euclidean geometry with special

Stand out from its logical structure, triangle and circle geometry. Non-Euclidean elements of geometry.

MATE 3036 - Fundamental Concepts of Mathematics

Three credits. Three hours of lecture a week. Prerequisite: None. Recommended course as an option to meet the requirement of the Logical-Mathematical and/or Quantitative Analysis area of the General Education Component. It analyzes how the concepts of number and space have changed in mathematics. Through the development of these concepts, it is observed how cultural forces, as well as the internal forces of mathematics, affect the development of this discipline. Various number systems are studied as a strategy to understand the properties of our number system. Integers and rational numbers are studied; and operations with them. By hundreds, ratios and proportions. Algebra, equation solving, and its role in solving word problems. Study of descriptive statistics; tables, graphs, measures of central tendency and dispersion. Elementary concepts of probability. Study of Euclidean geometry; three-dimensional figures and their properties; polygons, basic elements to describe space; Measurement of length, area, and volume. Angle measurements. An inquisitive and reflective attitude is promoted throughout all the topics, while reflecting on the nature of mathematical and statistical knowledge.

MATE 3037 - Elementary Set Theory

Three credits. Three hours of lecture a week. Prerequisite: MATE 3035. Sets, functions, relationships. Ordered sets. Axiom of the chosen. Cardinal and ordinal numbers. Introduction to lattices and Boolean algebra.

MATE 3040 - Number Theory I

Three credits. Divisibility and number systems. Common divisors and multiples. Euclid's algorithm. Fermat, Euler, and Brunn methods. Introduction to prime number theory. Special functions. Diophantine linear equations. Congruences. Historical development of number theory.

MATE 3041 - Introduction to Mathematics I

Three credits. Three hours a week. Prerequisite: Knowledge of algebra and geometry. This course includes notions of set theory and logic. Study of Numeral Systems: Egyptian, Babylonian, Roman, Mayan, and Indo-Arab. Numerical sets: natural, cardinal, integers, and rational. Notions of number theory: factors, multiples, and prime numbers. Maximum common divisor and minimum common multiple. Common fractions and decimals with their applications. Integer exponents: positives, negative zeros. Real numbers: rational and irrational. Simple Linear Equations: Solving and Problems.

MATE 3042 - Introduction to Mathematics II

Three credits. Three hours a week. Prerequisite: MATE 3041. This course includes graphical functions, elements of Euclidean geometry, measurements, and an international system of measurements. Area of planar figures, volume of solids, elements of probability, and statistics. The course will emphasize an understanding of the method and philosophy of mathematics.

MATE 3101 - Applied Statistics I

Three credits. Three hours of lecture a week. Prerequisite: MATE 3018. One-variable techniques: stem and leaf diagrams, median and mean, quartiles, aberrant data, box plots. Techniques with two variables: scatter plots, lines in scatter plots, experimentation with chance. Elementary combinatorics. Probability. Mutually exclusive and independent events. Random number generators. Simulation models. Sample distributions. Confidence intervals.

MATE 3102 - Applied Statistics II

Three credits. Three hours of lecture a week. Prerequisite: MATE 3101. Correlation and regression. Statistical inference. Hypothesis testing, fit verification. Small sample statistics. Statistical design of experiments, non-parametric methods. Every student will be required to submit a project that includes statistical computations.

MATE 3105 - Appreciating Mathematics

Three credits. three hours of lecture a week. Prerequisite: None. Inductive and Deductive Reasoning, Strategies for Solving Problems - Ratios and Proportions, Set Theory and Applications, Introduction to Logic, Propositions and Quantifiers, Truth Tables, Prime and Composite Numbers, MCD and MCM, Linear Equations and Applications, Linear Inequalities, Properties of Exponents and Polynomials, Factorization, Equations and Applications.

MATE 3131 - Fundamental Concepts of Arithmetic and Algebra for Elementary School Teachers

Three credits. Three hours of lecture a week. Prerequisite: for students of the faculty of education. Algebraic properties of integers, natural numbers, and rational numbers. The system of rational numbers. Sorting of numbers. The number line. Solution of simple equations and inequalities. Measurement and approximation. Severability rules. Major common divisor and minor common multiple. Percentages, ratios, and proportions. Verbal problems. Graphic. Correspondences. The real numbers.

MATE 3132 - Fundamental Concepts of Geometry, Probability, and Statistics for Elementary School Teachers

Three credits. Three hours of lecture a week. Euclidean plane geometry: axioms and primitive concepts, simple proofs of geometry, elementary properties of triangles, quadrilaterals and circles, constructions using compasses and rulers, the Cartesian coordinate system, angle and area measurements. Solid geometry: elementary properties of pyramids, prisms, cylinders, cones and spheres, volume measurements, applications. Statistics: exploratory analyses of clustered and non-clustered data, measures of central tendency and dispersion, probability, independent and mutually exclusive events, normal distribution, and applications.

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MATE 3135. - Introduction to trigonometry and analytic geometry

Three credits. Three hours of lecture a week. Prerequisite: MATE 3001 or equivalent; for students of the Industrial Department of the Faculty of Education; No credit for natural science majors. Functions and

their graphs. Algebraic and trigonometric functions. Exponential and logarithmic functions. Complex numbers. Introduction to Analytic Geometry: A General Equation of the Second Degree. Introduction to vector analysis.

MATE 3141 - Introduction to Probability and Statistics

Five credits. Five hours of lecture per week; elective course for students of natural sciences; it will not be counted as a mathematics concentration elective, but it will be counted as a free elective; MATE 3026 and MATE 3141 courses will not both be credited toward graduation. Prerequisite: MATE 3151 or take it concurrently. Descriptive statistics. Probability theory. Sample distributions. Estimate. Hypothesis testing. Non-parametric statistics. Correlation and regression.

MATE 3151 - Calculation I

Four credits. Four hours of lecture per week and one hour of laboratory time per week. Prerequisite: MATE 3018 or MATE 3171-3172 possess the level of proficiency equivalent to a preparatory course in calculus and analytical geometry, which corresponds to 4 points or more in the college board advanced placement II. Limit and continuity of functions of a variable. Differentiation and its applications to optimization. Anti-derivatives. The mean-value theorem and its corollaries. The defined integral and its applications. Definition and properties of logarithmic and exponential functions using calculus.

MATE 3152 - Calculus II

Four credits. Four hours of lecture and one hour of lab per week. Prerequisite: MATE 3151 or equivalent. Transcendental functions, integration techniques, conic sections, polar coordinates, parametric equations, sequences, indeterminate forms, improper integrals, and infinite series.

MATE 3153 - Calculus III

Four credits. Four hours of lecture and one hour of lab per week. Prerequisite: MATE 3152 or equivalent. Vectors, vector calculus, multivariable functions, gradients, extreme values, differentials, double and triple integrals, line and surface integrals.

MATE 3325 - Introduction to Discrete Mathematics

Three credits. Three hours of lecture a week. Prerequisites: MATE 3151 or teacher's permission. Logic, elementary set theory, demonstration techniques, relations, functions, counting and counting arguments, mathematical induction, graph theory, combinatorics, discrete probability, recurrence relations, number theory, and cryptography.

MATE 4009 - Ordinary Differential Equations

Three credits. Prerequisite: MATE 3152. First-order ordinary differential equations. Linear differential equations with constant coefficients. Second-order linear differential equations. Systems of differential equations. Applications.

MATE 4015 - Introduction to Small Systems

Three credits. Three hours of lecture a week. Prerequisite: MATE 3026 or 3028. Organization of computer systems, logic design, data representation and transfer, digital arithmetic, storage and access of digital data, microcomputers, with emphasis on scientific applications.

MATE 4019 - Differential Metric Geometry

Three credits. Three hours of lecture a week. Prerequisite: MATE 4031. Tangent, the main and binormal norm of a curve. Osculating plane. Curvature and twisting. Frenet's formulas. Special curves. Regular surfaces. The first and second fundamental forms. Mean and total curvature. The fundamental surface theorem. Minimum and regulated surfaces. Conformal maps and isometries. Geodesic.

MATE 4021 - Mathematical Logic

Three credits. Prerequisite: MATE 4032. The calculation of statements. Predicate calculus. Semantic and syntactic approach to the concept of truth. Gödel's completeness theorem. Model theory. Decision problem. Arithmetic of logic.

MATE 4022 - Advanced Mathematical Logic Course

Three credits. Prerequisite: MATE 4021. Formal number theory. Axiomatic set theory. Effective computability. Gödel's incompleteness theorem and related topics.

MATE 4031 - Linear Algebra

Three credits. Three hours of lecture a week. Prerequisite: MATE 3151. Introduction to the basic concept and methods of linear algebra.

MATE 4032– Fundamental Structures of Higher Algebra I

Three credits. Prerequisite: MATE 3151. Introduction to group theory. Cosets and Lagrange's theorem. Normal subgroups and quotient groups. Group homomorphisms. Isomorphism theorems. Finite groups. Groups of permutations and Cayley's theorem.

MATE 4033– Fundamental Structures of Higher Algebra II

Three credits. Prerequisite: MATE 4032. Introduction to rings. Sub-rings. Ring homomorphisms. Ideals and quotient rings. Rings of polynomials. The fraction body of an integrity domain. Introduction to the theory of bodies.

MATE 4045 - Partial Differential Equations

Three credits. Prerequisite: MATE 4009. Review of the calculation of various variables and ordinary differential equations. Classification of partial differential equations. Characteristics. Laplace's equation, the heat equation, the wave equation, and Schrödinger's equation. The method of separating variables. Representation of boundary solutions and problems. Harmonic functions.

MATE 4060 - Modern Math for Teachers

Three credits. Three hours of lecture a week. Prerequisite: MATE 3151. Notions of set theory and logic. Demonstration methods. Simple examples of proofs in 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, integers modulo n . Rings of polynomials and matrices. Vectors in the plane and their algebraic properties.

MATE 4061 - Numerical Analysis I

Three credits. Introduction to the basic principles and methods of numerical analysis. Approximation in analysis and linear algebra. Error propagation analysis. Interactive methods.

MATE 4062 - Numerical Analysis II

Three credits. Prerequisite: MATE 4061. Numerical methods for the solution of linear and non-linear equations. Interpolation. Numerical differentiation and integration. Determination of eigenvalues and vectors of a matrix. Approximation solutions of ordinary and partial differential equations of simple type. Approximation and representation of functions.

MATE 4063 - Multi-Variable Analysis

Three credits. Three hours of lecture a week. Prerequisite: MATE 4031. Calculation of vector functions. Implicit and inverse function theorems. Lagrange multipliers. External differential calculus. Multiple integrals. Green's, Stokes's and Gauss's theorems.

MATE 4080 - Applied Modern Algebra

Three credits. Three hours of lecture a week. Prerequisite: MATE 4032 or equivalent. Groups and finite bodies and their application to code theory. Boolean algebra and its application to circuit theory. Semigroups and their application to machine theory.

MATE 4089 - Geometry

Three credits. Three hours of lecture a week. Prerequisites: MATE 3151. A course aimed at mathematics students in which an axiomatic method is used to study geometry (Euclidean and hyperbolic); Definitions, axioms, theorems, and proofs are emphasized. Topics covered: historical development of geometry; Hilbert axioms for neutral geometry; Euclidean plane geometry, non-Euclidean geometry; geometric transformations, isometries.

MATE 4090 - Introduction to Mathematical Models

Three credits. Three hours of lecture a week. Prerequisite: MATE 4009, 4031 or 5001. The concept of a mathematical model. Usefulness and limitations of the models. The three stages: abstraction, idealization, and formulation; solving the math problem; relevance of the solution to the original problem. The student's main job will be to build and analyze a model for a particular problem.

MATE 4100 - Operational Research

Three credits. Three hours of lecture a week. Introduction through mathematical models and other techniques that are used in the identification and application of quantitative methods to optimization procedures.

MATE 4120 - History of Mathematics

Three credits. Three hours of lecture a week. Prerequisite: MATE 4032. The history of mathematics with special attention to astronomy, classical mechanics and mathematical physics.

MATE 4135 - Probability and Stats

Three credits. Three hours of lecture a week. Prerequisite: MATE 3152. Probability, distributions, pseudorandom number generators, graphical and descriptive methods, statistical inference.

MATE 4995 - Mathematics Topics

One to three credits. One to three hours of lecture per week. Prerequisite: Permission from the instructor or principal. Topics will be chosen according to the interest and availability of the student and the faculty.

MATE 4996 - Independent Undergraduate Studies

One to three credits. Prerequisite: permission from the principal and the teacher. Independent study of a topic of mathematical interest, at the undergraduate level, under the supervision of a professor in the department.

MATE 5001 - Probability I

Three credits. Three hours of lecture a week. Prerequisite: MATE 3152 (Calculus II). For some of the course content, partial material from MATE 3153 (Calculus III) will be required, which will be introduced in class. This course will introduce descriptive statistics techniques and data presentation, followed by a study of the basic concepts of probability and univariate and multivariate random variables, both discrete and continuous. Throughout the course, R statistical software will be used both to analyze data and to illustrate the concepts studied.

MATE 5002 - Statistics I

Three credits. Three hours of lecture a week. Prerequisite: MATE 5001. Theory of statistical inference. Estimators and estimation methods. Hypothesis testing. Linear regression. Emphasis will be placed on mathematical rigor and the formal development of the topic, as well as on computational aspects using the R language.

MATE 5007 - Computational Number Theory

Three credits. Three hours of lecture a week. Prerequisite: MATE 4032 and a high-level language such as Pascal or "C" and permission from the teacher. Study of the algebraic structures of the ring of integers and the ring of polynomials, as Euclidean domains. Applications of these concepts to justify different methods for determining primality, such as Selfridge's. Detailed study and implementation of

the most common algorithms for factoring integers
to determine primality.

MATE 5037 - Introduction to Complex Analysis

Three credits. Three hours of lecture a week. Prerequisite: MATE 3153. Complex Number Algebra, Analytic Functions, Integration, Meromorphic Functions, Residual Calculus
conformal maps.

MATE 5100 - Applied Combinatorial Theory

Three credits. Three hours of lecture a week. Prerequisite: MATE 4032 or MATE 4081.
Counting and enumeration techniques. Topics of Graph Theory. Search and sorting methods.

MATE 5101 - Algebra I

Four credits. Four hours of lecture per week. Prerequisite: MATE 3151. Group theory and
ring theory.

MATE 5102 - Algebra II

Four credits. Four hours of lecture per week. Prerequisite: MATE 5101 (Algebra I). Requirements:
Permission from the coordinator of the graduate program. For graduate students and high school
honors students. MATE 5102 is validated by MATE 4033 but no credit is given for both courses.
Body theory and linear algebra.

MATE 5201 - Advanced Compute I

Three credits. Prerequisite: MATE 3153. Real and complex number systems. Topology
elements. Sequences and series of numbers. Continuity. Differentiation. The Riemann-Stieltjes
integral.

MATE 5205 - Advanced Compute II

Three credits. Three hours of lecture a week. Prerequisites: MATE 5201 Advanced Calculus I,
MATE 4031 Linear Algebra. (Recommended), or permission from the department director.
Series of real and complex numbers. Sequences and series of functions, convergence,
uniform, power series. Euclidean Space: Elementary RN Topology. Notions about metric
spaces. Variable functions: continuity and differentiation. Banach's fixed-point theorem. Implicit
function theorem. RN integration: fundamental theorems of vector calculus.

MATE 5206 - Convex and discrete geometry

Three credits. Three hours of lecture. Prerequisites: MATE 5201 and 4031. Graduate students need
permission from the department chair. This course provides an introduction to methods, ideas of
convex and discrete geometry and their applications. Topics covered include: convex and affine
sets. Linear and affine transformations. Hyperplanes and their linear representation, separator and
support hyperplanes. Kirchberger's theorems and Helly's theorems. A family of convex sets, parallel
bodies, local convexity, local support properties, and nearest point properties. Polytopes, faces,

special examples, and Euler's formula. Duality and polarity. Convex functions. Support and distance functions. Continuity and differentiability.

MATE 5208 - Cryptography

Three credits. Three hours of lecture a week. Prerequisites: MATE 403, MATE 4032. Graduate students need permission from the department chair. Introduction to modern cryptography and its applications. The main topics covered are: fundamentals (authentication, integrity and non-repudiation; algorithms and keys; symmetry and public key algorithm; cryptanalysis); classical cryptography; introduction to Shannon's theorem and perfect secret; public-key cryptography: the RSA system; the crypto-system of gamal and discrete logarithm; the McEliece system based on algebraic code theory; Signature System: Digital Signature Standard; distribution key; Shared Secret Systems: Digital Security Standard; Introduction to cryptography and quantum computing.

MATE 5301 - Analysis I

Four credits. Four hours of lecture per week. Prerequisite: MATE 3153. Requirements: Permission from the coordinator of the graduate program. For graduate students and high school honors students. MATE 5301 is validated by MATE 5201 but no credit is given for both courses. Elements of logic and set theory. The body of the real numbers. Basic topology. Numerical series. Continuity. Differentiation. The Riemann integral.

MATE 5302 - Analysis II

Four credits. Four hours of lecture per week. Prerequisite: MATE 5301 (analysis I). Requirements: Permission from the coordinator of the graduate program. For graduate students and high school honors students. MATE 5302 is validated for an Advanced Calculus II course but no credit is awarded for both courses. The Riemann-Stieltjes integral. Successions and series of functions. Fourier series. Multi-variable functions. Integration of differential shapes.

MATE 3070 - Undergraduate Seminar I

A credit. One hour of seminar per week. This course is designed for students who are in their third semester in the mathematics program. An overview of the mathematics program will be given, as well as information on different professional or study aspects after completing the baccalaureate. A central objective of the course is to help the student improve their written and oral expression in mathematics. The instructor will give a brief overview of some research topics in mathematics. Each student will choose one of the topics and submit a paper on it, as requested by the instructor; The student will also make an oral presentation of his/her writing and a poster.

MATE 3170 - Undergraduate Seminar II

A credit. One hour of lecture per week. Prerequisites: MATE 3070, MATE 4081, MATE 4009, MATE 4031. By reading an article in mathematics, the student will appreciate the knowledge acquired, evaluate their comprehension and vocabulary developed in their studies. In this course, each student will choose an article from a mathematics journal, read it and make an oral presentation, submit a written report on it

and present a poster where they will highlight the most significant aspects of what they have read. The student will learn the essentials of Latex in order to be able to present the written work required in the course

MATE 3171 - Precalculation I

Three credits. Three hours of lecture a week. Real number systems, equations, inequalities, Cartesian plane, distance, midpoint, circle, lines, basic functions, function transformations, operations with functions, inverse function, complex numbers, polynomial functions, rational functions. Each unit can add 20% content.

MATE 3172 - Precalculation II

Three credits. Three hours of lecture a week. Prerequisite: MATE 3171 or MATE 3173. Exponential functions, logarithmic functions, trigonometric functions, systems of equations, determining matrices, sequences, and series. Each unit can add 20% content.

MATE 4081 - Higher Algebra I

Three credits. Three hours of lecture a week. Prerequisites: MATE 3325, CCOM 3020. Course aimed at students of mathematics and computer science. Basic topics of group theories, rings, integrity domains, and rings of polynomials are discussed. The main topics are: (a) in group theory: introduction to group theory, lateral classes and Lagrange's theorem, normal subgroups and quotient groups, group homomorphisms, isomorphism theorems, finite groups, permutation groups and Cayley's theorem. (b) In Ring Theory: Introduction to Ring Theory, Ideals and Quotient Rings, The Fraction Body of an Integrity Domain, Rings of Polynomials.

MATE 4082 - Higher Algebra II

Three credits. Three hours of lecture a week. Prerequisites: MATE 4081, MATE 4031. Course aimed at students of mathematics and for those preparing for graduate studies in pure mathematics and other related areas. The study of algebraic structures begun in the Higher Algebra I course is continued and extended. The main topics are: (a) in group theories: group actions and Sylow's theorems; (b) In ring theory: single-factorization domains, algebraic extensions, decomposition (breaking) fields.

MATE 4225 - Introduction to Graph Theory

Three credits. Three hours of lecture a week. Prerequisites: MATE 3325 or CCOM 3020. This course is designed for undergraduate students in mathematics, or computer science and for any other student interested in math. This course will be offered through face-to-face lectures in a classroom. The topics of the course are: review of the fundamentals of mathematics, graphs, digraphs and binary relationships. Functions and their digraphs, bipartite graphs. Structure of graph blocks. Cycles and links. The degree function of a graph and the "switch" operation. Subgraphs and minors, paths, routes and walks. Euler tours and walks. Labyrinth problems. Trees and forests. Graph and subgraph counting problems. The Pufer coding of the expansive trees of a graph and the number of expansive trees in a complete graph.

MATE 5209 - Mathematical Modeling in Biology

Three credits. Three hours of lecture a week. Prerequisites: MATE 4009, MATE 4031 or teacher's permission. This course provides an introduction to the use of continuous and discrete differential equations in biology. A variety of topics in population biology and biomedical sciences will be considered, including ecological models of unique species and competitors, enzyme reaction kinetics in epidemiology and infectious diseases. The course moves from classical models to contemporary models at the population, cellular organ, and molecular levels. Mathematical models will be developed and analysed to investigate the mechanisms underlying specific biological processes. Another major emphasis of the course is to illustrate how these models can be used to generate predictions about current untested conditions. This course is lecturing, discussion, and problem-solving in which topics are presented by the instructor, practice problems and examples are explained, and assigned work is completed by students outside of class.

MATE 5227 - Mathematical Models in Operations Research

Three credits. Three hours of lecture a week. Prerequisite: MATE 3153, MATE 5001. This course is designed for students in applied mathematics. The course is focused on deterministic and probabilistic modeling of real-world problems. The topics to be covered are the following: dynamic and non-linear linear programming; inventory models; decision-making analysis; Markov Row and Chain Theory. This course is lecturing, discussion, and problem-solving in which topics are presented by the instructor, practice problems and examples are explained, and assigned work is completed by students outside of class.

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NUTR 4031 - Food Science

Three credits. Two hours of discussion and a three-hour lab a week. Prerequisite: QUIM 3001. In this course, you will study the main food groups, according to their chemical nature and the reactions they undergo during their preparation and preparation. Emphasis will be placed on sanitation, nutrient retention, and the development of desirable organoleptic characteristics. The laboratory includes experiments to illustrate the basic principles and exercises to demonstrate their application in food preparation. The course will be offered face-to-face, hybrid, or online.

NUTR 4041 - Human Nutrition I

Three credits. Four hours of discussion per week. Prerequisites: BIOL 3711-3712, QUIM 3001; concurrent with NUTR 4045. The course considers fundamental knowledge of nutrition science, including the nutrients found in food, and their function in the human body. Special interest is given to the study of the factors necessary to select and plan a healthy diet for individuals and groups. Course offered face-to-face, online, and hybrid.

NUTR 4042 - Human Nutrition II

Three credits. Four hours of discussion per week. Prerequisites: NUTR 4041, 4045, 4158, BIOL 3711-3712. This course will discuss the integration of the contribution of various scientific disciplines to the study of nutrition. Emphasis will be placed on the biochemical and physiological basis of nutrition. It

includes a critical review of recent literature on nutrition. The course can be offered face-to-face or hybrid.

NUTR 4045 - Applied Human Nutrition I

A credit. Two hours of discussion per week. Prerequisites: QUIM 3001, BIOL 3711-3712; Concurrent with NUTR 4041. This course will discuss the practices and applications of techniques and methods used in human nutrition that help identify and describe healthy nutritional status and the different stages of malnutrition. The course can be offered face-to-face or hybrid.

NUTR 4055 - Food Procurement for Foodservice Systems

Two credits. Three hours of discussion per week. Prerequisite: NUTR 4031. This course discusses the standards and procedures for selecting, purchasing, receiving, storing, inventorying, and requisitioning food supplies for use in food service systems. Emphasis on trends, regulations, and factors influencing the distribution channel, specifications, and quality standards. Visits to operations in the food industry. The course will be offered in person, hybrid, or online.

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NUTR 4068 - Facility Design and Equipment Purchase for Food Service Systems

Two credits. Three hours of discussion per week. Prerequisite: NUTR 4031. The course will study the planning and design of food service system facilities, factors that affect the selection and purchase of institutional equipment. You will have a focus on quality standards to develop productivity and simplification of work. Hygiene and sanitation principles applied to food service systems. The course will be offered in person, hybrid, or online.

NUTR 4075 - Foodservice Systems Management

Three credits. Four hours of discussion per week. Prerequisites: NUTR 4055, NUTR 4068. This course will discuss theories, policies, procedures, functions, and administrative responsibilities inherent in the organizational structure of food service systems, including information technology systems. The course will be offered in person, hybrid, or online.

NUTR 4076 - Application of Food Service Management Concepts

Two credits. Two hours of discussion/workshop per week. Prerequisite: NUTR 4075. Apply the concepts of the theories, policies, procedures, functions, and administrative responsibilities inherent to the organizational structure of food service systems using different educational techniques, including information technology systems. The course will be offered in a hybrid or online manner.

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NUTR 4085 - Large-scale food production.

Three credits. Five hours of discussion/practice per week. Prerequisites: NUTR 4031, 4041, 4055, 4068, 4086, BIOL 3705. The course emphasizes the management procedures to be followed in a food service system. The main functions of management (planning, organizing, recruiting, directing,

and controlling) are applied to such systems. All resources of the food service system, such as food supplies, physical facilities, equipment, time, money, and employees are utilized. Quality control and food production and service methods are put into practice. The course will be offered in person or hybrid.

NUTR 4086 - Menu for Foodservice Systems

Three credits. Five hours of discussion/lab per week. Prerequisites: NUTR 4041- 4045, NUTR 4055, NUTR 4068, NUTR 4075; Prior or concurrent: BIOL 3705. This course will discuss theory and mechanics for institutional menu design, experiences in recipe standardization, portion control, food preparation methods, and menu pricing systems. Also, basic concepts of computerized menu planning and analysis. The course will be offered in person, hybrid, or online.

NUTR 4158 - Human Biochemistry

Three credits. Three hours of discussion per week. Prerequisite: QUIM 3015; BIOL 3711-3712; NUTR 4041-4045; Concurrent with NUTR 4159, 3-dose trial of Hepatitis B vaccine. This course is a discussion of the study of the chemistry and metabolism of major biomolecules within the conceptual framework of nutrition, emphasizing their application to human health and disease. The course will be offered in person or hybrid.

NUTR 4159 - Human Biochemistry Laboratory

A credit. Three hours of lab per week. Prerequisites: QUIM 3015, NUTR 4041-4045 and BIOL 3711-3712; Concurrent with NUTR 4158. This course is a laboratory of scientific experimentation related to analytical techniques used in biochemistry within a conceptual framework of nutrition and metabolism, emphasizing applications in human health and disease. The course will be offered in person, hybrid, or online.

NUTR 4165 - Clinical Dietetics

Two credits. Four hours of discussion per week. Prerequisites: NUTR 4158-4159; Concurrent with NUTR 4169; Prior or Concurrent NUTR 4042. This course studies recent advances and trends related to medical nutritional therapy, both in health and disease, and gives special emphasis to diseases and conditions of greater prevalence in Puerto Rico. The course will be offered in person, hybrid, or online.

NUTR 4166 - Advanced Clinical Dietetics

Two credits. Four hours of discussion per week. Prerequisites: NUTR 4158-4159, NUTR 4042; NUTR 4165 and NUTR 4169. In this course you will discuss in the form of a lecture and discussion the advances and trends related to the medical nutritional therapy of patients with various health conditions. Emphasis will be given to the health conditions prevalent in Puerto Rico. The course is aimed at students of nutrition and dietetics so that they can determine the correct nutritional therapy to improve or control the nutritional health of a patient or client. The course will be offered in person, hybrid, or online.

NUTR 4169 - Applied Clinical Nutrition and Dietetics

A credit. Two hours of discussion per week. Prerequisites: NUTR 4158-4159, Prerequisite or

Concurrent NUTR 4042; Concurrent NUTR 4165. Study and application of the components that support clinical practice in nutrition and dietetics necessary for the nutritional care process. Special emphasis on the development of skills related mostly to the process of nutritional care, calculation of diets and case studies. The course will be offered in person, hybrid, or online.

NUTR 4170 - Nutrition Teaching Methodology

Two credits. Four hours of discussion per week. Prerequisites: NUTR 4031, NUTR 4041- 4045. Discussion of the basic principles of the nutrition teaching and learning process with emphasis on planning and designing nutrition activities for different age groups including those with special needs. The course will be offered face-to-face, hybrid or online.

NUTR 4175 - Practice in Nutrition Teaching

A credit. Three hours of discussion/practice per week. Prerequisite: NUTR 4170. The course consists of didactic and practical experiences with individuals and groups of different ages, educational level, sociodemographic characteristics and special needs. Students are assigned to different scenarios where they design and execute nutrition education activities. These settings include public or private schools, daycare centers, community centers for youth and seniors, WIC program, among others. The course is complemented by online experiences. The course will be offered in person, hybrid, or online.

NUTR 4176 - Nutrition in the Community

Two credits. Four hours of discussion per week. Prerequisite: NUTR 4170. It emphasizes the philosophy and goals of community nutrition agencies and programs. It includes in-depth knowledge of the nature, causes, and extent of nutrition problems in the world with an emphasis on Puerto Rico. It considers the planning, methodology, and assessment of nutritional status and provides interactive experiences in different areas of public health. The course will be offered in person, hybrid, or online.

NUTR 4198 - Nutrition Research Methods

Two credits. Three hours of discussion per week. Prerequisites: MATE 3026, NUTR 4041- 4045. This course includes the presentation and application of basic knowledge and skills in the research process in the field of nutrition. It focuses on the development of critical analysis skills in the areas of study design, the application of statistical methods, the organization and interpretation of data, and the presentation of the final report in the context of research in the area of food and nutrition. The course will be offered in person, hybrid, or online.

NUTR 4225 - Professional Aspects of Nutrition and Dietetics

A credit. Two hours of discussion per week. Prerequisite: N/A. Global approach to the practice of nutrition and dietetics with emphasis on professional, empirical, ethical aspects and legal. It includes testing techniques and skills needed for the professional licensing exam. The course will be offered in person, hybrid, or online. NUTR 4501– Integrative Nutrition I: Principles of Food,

Nutrition, and Education

A credit. One hour of discussion per week. Prerequisites: NUTR 4031, NUTR 4041-4045, NUTR 4170; Prior or Concurrent NUTR 4198. Discussion of contemporary issues in food, nutrition, and dietetics according to current trends and health priorities. The course includes core knowledge, skills and professional competencies in food science

and nutritional composition, nutrition and related sciences, education and communication, and research. It prepares students for the local and national professional revalidation exam, one of the requirements to enter the profession of Nutrition and Dietetics. The course will be offered in a hybrid or online manner.

NUTR 4502 - Integrative Nutrition II: Food Service Administration

A credit. One hour of discussion per week. Prerequisites: NUTR 4041-4045, NUTR 4055, NUTR 4068, NUTR 4075, NUTR 4086 and BIOL 3705. Discussion of contemporary issues in food, nutrition, and dietetics according to health trends and priorities. The course covers core professional knowledge, skills, and competencies in the functions of management, human resources, financial management, marketing, and quality improvement; menu planning, purchasing, production, distribution and food service, sanitation, safety, equipment, facility planning, and sustainability of food service systems, and prepares students for the local and national professional exam, which is one of the requirements for entry into the profession of Nutrition and Dietetics. The course will be offered in a hybrid or online manner.

NUTR 4503 - Integrative Nutrition III: Nutritional Care of Individuals and Groups

A credit. One hour of discussion per week. Prerequisites: NUTR 4042, NUTR 4165, NUTR 4169, NUTR 4501. Discussion of contemporary issues in food, nutrition, and dietetics according to current trends and health priorities. The course covers core professional knowledge, skills and competencies in nutritional screening and assessment of populations and community needs; diagnosis, planning, intervention, monitoring and evaluation of the nutritional care of individuals and groups, and prepares students for the local and national professional revalidation exam, which is one of the requirements for admission to the profession of Nutrition and Dietetics. The course will be offered in a hybrid or online manner.

QUIM 3001 - General Chemistry I

Four credits. Contact hours: 3 class hours and 3 lab hours. You must be enrolled in a laboratory section. (Unless you have passed it within the past year and received authorization from the Department of Chemistry to take the course without a lab.) Prerequisite: MATE 3171 AND MATE 3172 or MATE 3018. Fundamental principles of Chemistry, with emphasis on matter and measurements, atoms, molecules and ions, stoichiometry in gas phase and in solution; thermochemistry, periodic table, chemical bonds, molecular geometry, and gases.

QUIM 3002 - General Chemistry II

Four credits. Three hours of lecture per week and three hours of laboratory. Prerequisite: QUIM 3001 (Must be enrolled in a laboratory section). Fundamental principles of chemistry, with emphasis

on intermolecular forces, solutions, colligative properties, kinetics, chemical equilibrium, acids and bases, buffers, titrations, thermodynamics, electrochemistry and nuclear chemistry.

QUIM 3011 - Fundamentals of General Organic Chemistry and Biochemistry I

Five credits. Four hours of lecture and discussion, and three hours of lab time a week. Prerequisite: MATE 3016. Interpretation of chemical phenomena in terms of molecular structure; Study of stoichiometry, chemical balance and the most important organic functions.

QUIM 3012 - Fundamentals of General Organic Chemistry and Biochemistry II

Five credits. Four hours of lecture and discussion, and three hours of lab time a week. Interpretation of chemical phenomena in terms of molecular structure, study of stoichiometry, chemical equilibrium and the most important organic functions.

QUIM 3015 - Compendium of Organic Chemistry

Three credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: QUIM 3002 or equivalent. Study of the structures and reactions of carbon compounds. Compendium of Topics Covered in Chemistry 3031-3032.

QUIM 3025 - Analytical Chemistry

Four credits. Three hours of lectures and two three-hour lab periods per week. Prerequisite: QUIM 3002. Study of the theory and methods for qualitative and quantitative analysis using gravimetric and volumetric methods, including potentiometric titrations. Brief introduction to spectrophotometric methods of analysis with emphasis on the ultraviolet-visible region. The lecture emphasizes the fundamental theory of chemical analysis, the relevant equilibria, and the computation of results. In addition, the limitations and possible errors in the most common analytical determinations and the interpretation of the results obtained in these are studied.

QUIM 3031 - Organic Chemistry I

Three credits. Prerequisite: QUIM 3001-2. This semester you will study how three-dimensional structure and electron distribution influence the chemical and physical properties of organic species. You will develop this knowledge by studying acid-base reactions; electrophilic addition of alkenes, alkynes and dienes; and electrophilic substitution of aromatic compounds. In this process, you will learn how to represent organic molecules with patterns and models, how to distinguish between isomers, how to generate mechanisms to represent the movement of electrons in reactions, and how to predict the main products. You will also acquire a basic and practical knowledge of infrared spectroscopic techniques and proton nuclear magnetic resonance.

QUIM 3032 - Organic Chemistry II

Three credits. Prerequisite: QUIM 3001 0 QUIM 3031. The proposed curriculum aims to develop logical reasoning skills, promote the integration of knowledge and increase the understanding of the scope of Organic Chemistry in the sciences allied to health. It will study nucleophilic substitution.

elimination, nucleophilic addition, oxidation and reduction reactions. You will analyze the relationship between organic structure and chemical reactivity. You will apply the knowledge base gained in the course by studying total cholesterol synthesis and lanosterol biosynthesis.

QUIM 3255 - Chemical Analysis I

Four credits. Three (3) hours per week of synchronous and asynchronous lectures and six (6) hours per week of synchronous and asynchronous laboratory experiences. Prerequisite: QUIM 3001-QUIM 3002. This course is aimed at students pursuing higher education in chemical sciences. It is an introductory course to the principles, practices and methods of chemical analysis, which transcends multiple scientific disciplines. The course emphasizes the learning of the classical and instrumental methods of quantitative chemical analysis, how to make quantitative measurements, how to process data to obtain reliable and valid information from experimental results. The lab component will provide students with the opportunity to learn new techniques and skills, to self-assess their mastery of the content, and to validate their results with detailed and in-depth statistical reasoning.

QUIM 3451 - Organic Chemistry I

Three credits. Prerequisite: QUIM 3002. Co-requisite: QUIM 3451L. This course is designed for students who will be using chemistry in their careers. These careers may be related to research, teaching, biochemistry, industry, and administration in academic, industrial, or government institutions. The course includes the following: Concepts of bond formation, hybridization of atomic orbitals, sigma bonds, and pi bonds in the formation of organic compounds such as: alkanes, alkenes, alkynes, alcohols, and alkyl halides. Factors that determine relative physical properties based on molecular structure. Different types of isomerism based on molecular and/or structural formulas (e.g. conformational, configurational, functional, etc.). Products and mechanisms of the reactions of these functional groups (addition, substitution, elimination, acid-base, redox), as well as the energetic factors that control the mechanisms and can represent them in an energy profile. The relative stability of chemical species such as free radicals, carbocations and carbanions. Integration of several reactions of these functional groups in sequence for the design of a synthesis.

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QUIM 3452 - Organic Chemistry II

Four credits. Three hours per week of lecture and 1 hour of discussion. Prerequisite: QUIM 3451 Organic I) QUIM 3451L (Organic Chemistry Laboratory I) Co-requisite: QUIM 3452L. This course is designed for students who will be using chemistry in their careers. These careers may be related to research, teaching, biochemistry, industry, and management in academic, industrial, or governmental institutions. The course includes the following: Theory and study of conjugate systems and the concept of aromaticity, through the chemistry of benzene and its derivatives. Study of the mechanisms and products of the aromatic electrophilic substitution reaction. Structure, nomenclature, mechanisms and reactions of carbonyl compounds (such as: aldehydes, ketones, carboxylic acids and derivatives of carboxylic acids) and other functional groups such as: amines. Integration of several reactions of these functional groups in sequence for the design of a synthesis.

Analysis of infrared, UV, mass spectrometry and nuclear magnetic resonance spectra of proton and carbon-13 of organic species. Integrate the information extracted from these analyses to elucidate structures of organic species.

QUIM 4000 - Inorganic Chemistry

Three credits. Three hours of lecture a week. Prerequisite: Organic Chemistry (QUIM 3451-2 or QUIM 3031-2), Analytical Chemistry (QUIM 3255 or 3025). Study of the electronic structure of atoms and molecules, periodic relationships, molecular and orbital shapes and symmetry, chemical bonding models, ionic and metallic solids, semiconductors, acid-base chemistry, redox reactions, structure and reactions of inorganic compounds, coordination compounds, spectroscopy of coordination compounds and reactions of coordination compounds.

QUIM 4006 - Inorganic Chemistry II

Two credits. Two hours of lecture per week. Prerequisite: QUIM 4000, QUIM 4041. Chemistry of transition metals, compounds of inorganic clusters, symmetry, and group theory in inorganic chemistry, bioinorganic chemistry, and nuclear chemistry.

QUIM 4015 - Instrumental Analytical Chemistry

Four credits. Three hours of class and six hours of lab. Prerequisite: QUIM 3255, QUIM 3451-52. Chemical and instrumental methods of analysis, both qualitative and quantitative. The fundamental principles related to the use of analytical methods and modern instrumentation.

QUIM 4025 - Methods of Organic Chemistry

Three credits. Three hours of lecture a week. Prerequisite: QUIM 3032 and QUIM 3452. Study of the spectral properties of organic molecules through their UV, IR, NMR and mass spectra and discussion of the methods used in the separation and identification of organic compounds. This course is designed for the technically oriented person who wishes to learn how to identify organic compounds from the complementary information offered by three types of mass spectra (MS), infrared (IR) and nuclear magnetic resonance (NMR).

QUIM 4035 - Intermediate Organic Chemistry

Three credits. Three hours of lecture a week. Prerequisite: QUIM 3032 or QUIM 3452. This course addresses intermediate concepts of organic chemistry for advanced undergraduate students, with an emphasis on synthetic organic chemistry. It is a prerequisite that students have had a one-year course in second-year organic chemistry. Any good organic chemistry or chemistry textbook will help in going over the fundamentals and the student is strongly encouraged to do so. After finishing this course, the student will have a more solid grounding in the basic principles of organic chemistry and exposure to concepts that are currently of great importance in synthetic organic chemistry. The undergraduate student is expected to be able to perform best in a conventional graduate-level organic chemistry course and bring him or her up

to speed on the basic principles of organic chemistry. The student will also gain a better knowledge of the basic literature in Organic Chemistry.

QUIM 4041 - Physical Chemistry I

Three credits. Three hours of lecture and discussion per week. Prerequisite: MATE 3152, FISI 3012, QUIM 3255, QUIM 3452. This class covers chemical thermodynamics, which introduces the laws of classical thermodynamics, and applications to the properties of gases, liquids, and solids, as well as chemical solutions, phases, and equilibria.

QUIM 4042 - Physical Chemistry II

Three credits. Three hours of lecture a week. Prerequisite: QUIM 4041, MATE 3152, FISI 3012, QUIM 3255, QUIM 3452. This class covers the fundamentals of quantum mechanics, as applied to atoms, chemical bonding, and molecules, as well as the fundamentals of spectroscopy.

QUIM 4043 - Intermediate Laboratory I

Three credits. Prerequisite: University Physics II (FISI 3012), Calculus II (MATE 3152), Chemical Analysis I (QUIM 3255), Organic Chemistry II, Physical Chemistry I (QUIM 4041). The material comprises discussion of theory and methods for practices and experiments in thermodynamics, chemical equilibrium, electrochemistry, viscosity, and phase diagrams. The content of this lab comprises practices related to discussion material in the lecture course, QUIM 4041.

QUIM 4044 - Intermediate Laboratory II

Three credits. Prerequisite: Physical Chemistry I (QUIM 4041)

Physical Chemistry Laboratory I (QUIM 4043), Physical Chemistry II (QUIM 4042). The material comprises the discussion of theory and methods for practices and experiments in quantum mechanics, spectroscopy, and chemical kinetics. Emphasis is placed on the use of physical and analytical chemistry techniques, and data analysis and interpretation. The content of this lab comprises practices related to discussion material in the lecture course, QUIM 4042.

QUIM 4055 - Biochemistry

Three credits. Prerequisite: Organic Chemistry I and II. The three-credit lecture will provide fundamental concepts of structural organization, organization, stability and function of proteins and bioenergetics (enzymology). The essential methods that enable scientific research will also be discussed. Emphasis will also be placed on the problem of protein folding.

QUIM 4061 - Chemical Bibliography I

Two credits. Two hours of lecture per week. Cataloguing, use and importance of the various sources of chemical bibliography. Individual bibliographic research papers. QUIM 4117 - Chemistry Tutoring

A credit. It can be repeated for a maximum of two credits that will be counted as free electives. Prerequisite: Principal's permission. Five hours per week of conventional chemistry tutoring, in a self-tutorial lab, or in the personalized system of instruction, under the constant supervision of a professor. Tutoring, supervision of experimental work, safety rules, handling of reagents, preparation of equipment and materials of the audiovisual center.

QUIM 4605 - Introduction to Theoretical Chemistry

Three credits. Three hours of lecture a week. Prerequisite: QUIM 3002, FISI 3012, MATE 3062. Description of chemical systems in terms of their equations of state and/or their differential equations. The concept of equilibrium or stability is investigated through calculus and variations. Kinetic processes: differential equations are described. Special functions result from applying mathematical methods to chemical systems that exhibit diffusion.

QUIM 4865 - Biochemical techniques

Two credits. One hour of lecture and four hours of laboratory time per week. Prerequisite: QUIM 4055 or take concurrently. The application of chemical analysis to biological systems. Purification and characterization of proteins, lipids and nucleic acids. Chromatographic and electrophoretic techniques used in biochemistry. Determination of parameters in enzyme kinetics.

QUIM 4999 - Non-Graduate Research

One to three credits. Maximum of 6 credits. Lab hours by arrangement. Prerequisite: Permission from the department director. The student will work on an original research problem under the mentorship of a faculty member.

QUIM 5166 - Introduction to Polymer Chemistry

Three credits. Three hours of lecture a week. Prerequisites: QUIM 3001-3002, 3031-3032 or 3451-3452, QUIM 3025 or 3255; take concurrently with QUIM 4041. Types of polymer materials; polymer synthesis and reactions; physical and chemical characterization; technological processes and modern applications. Experiences in polymer synthesis and characterization.

QUIM 5995 - Selected Topics in Chemistry

One to three credits. One to three hours of lecture per week. Prerequisite: Director's recommendation. Selected topics in analytical chemistry, biochemistry, inorganic chemistry, physical chemistry, organic chemistry, polymers, industrial chemistry, environmental chemistry, laboratory safety.

FACULTY OF SOCIAL SCIENCES

Dean: Dr. Milagros Méndez Castillo

Associate Dean for Academic Affairs: Dr. Laura Fantauzzi Marrero

Assistant Dean of Student Affairs: Mr. Julio L. Calderón Vega

Assistant Dean of Administrative Affairs: Ms. Noemí Rolón Albino

Department of Psychology: Dr. Nelson Cruz Bermúdez Academic Coordinator
Department of Geography, Dr. Miguel Sánchez-Celada Academic Coordinator
Department of Social Sciences General: Dr. Miguel Sánchez-Celada Director of the
Graduate School of Rehabilitation Counseling: Dr. Lesley Irizarry Fonseca Director of the
Department of Social Work: Dr. Gisela Negrón Velázquez Director of the Department of
Sociology and Anthropology: Dr. Jaime Pérez Rivera Director of the Beatriz Lassalle
Graduate School of Social Work: Dr. Lillian Albite Vélez Acting Director of the Department
of Economics: Dr. Iyari I. Ríos González Interim Director of the Department of Political
Science: Dr. Mayra Vélez Serrano Director of the Roberto Sánchez Vilella Graduate
School of Public Administration: Dr. Deliz Rodríguez Carrasquillo Director of the Institute
of Psychological Research: Dr. David Pérez Jiménez Academic Coordinator of the
Institute of Cooperativism: Dr. Elba Echevarría Díaz Director of the Academic Center for
Computing: Dr. Jannette Rodríguez Ramírez Academic Coordinator of the Institute of
Labor Relations: Dr. Elba Echevarría Díaz Director of the Institute of Caribbean Studies:
Dr. Emilio Pantojas García Director of the University Center for Psychological Services
and Studies: Dr. Carmen C. Salas Serrano Director of the Center for Social Research: Dr.
David Perez Jimenez

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HISTORY

The Faculty of Social Sciences was established in 1943 to bring together the disciplines of political science, economics, geography, psychology, sociology, anthropology and social work.

In 1947 the School of Public Administration and the Center for Social Research, which had been established in 1945, were incorporated into the Faculty.

Three years later, in 1950, the Institute of Labour Relations was established and in 1953 the Institute of Cooperativism was founded. In 1954 the School of Social Work and the School of Public Administration began their programs leading to the Master's degree.

During the 1956-57 academic year the Graduate Program in Economics was established as a new subdivision.

In 1959-60 a new unit, the Institute of Caribbean Studies, was created, and in 1966-67, the Master's Degree Program in Psychology was established.

In 1968 the Department of Geography was established. The Faculty of Social Sciences continued its rapid growth and in the 1970s majors were created in Anthropology, Social Welfare, now Social Work, Labor Relations at the undergraduate level, and the Graduate Program in Rehabilitation Counseling.

In 1979, the Council of Higher Education approved the concentration in Cooperativism within the undergraduate programs of the Faculty of Social Sciences. In the same year, the Academic Computing Center was created.

In 1986, the degree of Doctor of Philosophy with a specialization in Psychology was created. In 1989, the Graduate Program in Sociology was launched, offering a master's degree in this discipline. In August 2002, the Doctoral Program in Social Work was launched, with an enrollment of 12 students.

The Faculty has graduate programs in Public Administration, Rehabilitation Counseling, Economics, Psychology, Sociology and Social Work; and baccalaureate programs in Anthropology, Political Science, General Social Sciences, Economics, Geography, Psychology, Labor Relations, Social Work, and Sociology. It also has three Institutes: Caribbean Studies and Labor Relations; and the Centre for Social Research.

DEGREES AWARDED

- Bachelor of Arts with concentrations in Anthropology, Political Science, Social Sciences, Economics, Geography, Psychology, Labor Relations, Sociology, and Social Work.
- Master of Arts with specialties in: Economics, Sociology, Academic and Research Psychology, Clinical, Industrial-Organizational and Social-Community.
- Master's Degree in Counseling and Rehabilitation.
- Master's Degree in Social Work.
- Master's Degree in Public Administration: At the School of Public Administration of the Faculty of Social Sciences: General Program and specialties in Personnel Administration, Program Administration, Financial Administration and Policy, and Administrative Programming.
- PhD in Philosophy with specializations in: Psychology and Social Work

ACCREDITATIONS

The bachelor's and master's degree programs in Social Work are accredited by the CSWE (Council on Social Work Education). Likewise, the Master of Public Administration program is accredited by NASPAA (National Association of Schools of Public Affairs and Administration). For its part, the Master's Program in Rehabilitation Counseling is accredited by CORE (Council on Rehabilitation in Education).

STUDENT SERVICES

- Office of Student Affairs – provides Career Counseling services at the individual and group levels.
- Counseling assists students in their academic and personal development. To achieve this, we offer counseling on topics such as:
 - o Organize and properly manage personal and academic life
 - o Improve study skills
 - o Manage conflicts in relationships
 - o Gain communication and relationship skills with others, including parents and family members
 - o Manage the process of physical and emotional independence
 - o Deal with situations that require reasonable accommodation in the course of your academic life
 - o In addition, we offer workshops in the following areas:
 - Techniques to improve retention and memory
 - Work organization
 - How to prepare for exams and reports in class
 - Motivation and personal goals and communication
 - Sexuality and relationships
 - Sexual orientation
 - Interpersonal relationships and communication
 - How to Work with Courage
 - How to Beat Depression
 - Coping with attachment (codependency)
 - Development of personal values
 - Leadership
 - Decision making
 - Suicide
 - Criminality
 - Domestic violence
 - Self-esteem
 - HIV/AIDS
 - Stress

UNITS OF STUDY AND RESEARCH:

- **Center for Social Research-** Currently, the CIS represents an institutional space of varied intellectual experiences that have an impact on contemporary academic and social debate. The mission of the CIS is based on a vision anchored in the principles of academic freedom, social pluralism and the link between research and society y teaching.
- **Institute of Caribbean Studies - The Institute of Caribbean Studies (IEC)** is a research center attached to the Faculty of Social Sciences. Founded in 1958, its main activities are the research and dissemination of different topics of the Greater Caribbean, from the perspectives of the social sciences and humanities.
- **Institute for Psychological Research (IPsi)** – The IPsi envisions itself as an interdisciplinary research and development organization. Its mission includes training and research to know, transform and contribute to social justice and the development of psychology and related disciplines. It generates and disseminates new knowledge related to mental health and other conditions adverse to people's overall health and well-being.

UNITS ATTACHED TO DEPARTMENTS:

- Cooperative Research and Development Program
- Scientific Research Unit in Social Work
- Economic Research Unit
- Institute for Research, Violence and Complexity

LIBRARIES & ARCHIVES

- Social Sciences Archive
- Public Administration Library
- Monserrate Santana Library of Palés
- Adelaide Barela Reading Room

COMPUTER CENTERS & LABORATORIES

- Academic Center for Social Science Computing
- Digital Mapping and Spatial Analysis Laboratory
- Archaeology Lounge/Laboratory

CONCENTRATIONS

ANTHROPOLOGY

The Anthropology Program seeks to train students with the knowledge and research skills necessary to contribute to the understanding of human beings in their biological and cultural diversity, considering social and historical aspects. The Program integrates teaching, ethnographic and archaeological research, and outreach in the training of students so that they can, through critical analysis and theoretical reflection, transcend ethnocentric visions.

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The curriculum lasts for four years for full-time students. This baccalaureate is ideal for people interested in learning about culture and cultural variety, as well as the origin and evolution of human beings.

Graduates will be able to apply their theoretical and practical knowledge to understand diverse cultures and historical backgrounds. They will also be able to make incursions of various kinds in Anthropology, through field research.

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documentary and archival. In addition, they will be able to work in social and archaeological research inside and outside Puerto Rico.

GOALS

1. To reaffirm the character of anthropology as a discipline that integrates knowledge about human societies in their biological and cultural variety from a historical perspective.
2. Encourage openness and critical analysis of the diversity of theoretical and methodological traditions that characterize the discipline.
3. Integrate research theory and practice in the various branches, regions, and professional applications of anthropology.
4. Sponsor innovative field research from an interdisciplinary perspective y comparative as an integral part of the curriculum.
5. To prepare students with a solid theoretical and practical background, and trained in the use of research methods relevant to the field of anthropological study.

POLITICAL SCIENCE

This baccalaureate provides students with a basic training in philosophical, scientific and legal knowledge about political ideas, institutions and processes.

Graduates will have up-to-date and historical knowledge on various topics and theoretical and methodological approaches to Political Science and will master skills of discussion and analysis, comparison, critical thinking and scientific research on ideas, structures, institutions and political processes at various levels (local, national, regional and international) and in different cultural or national contexts.

The curriculum lasts four years, including regular courses, research seminars and the possibility of being selected to participate in practical internships. This baccalaureate is ideal for students interested in pursuing graduate studies in Political Science, Law, Public Administration, Planning, Public Policy, International Relations and other related disciplines, as well as for job placement in government institutions, political parties, civic entities, non-governmental organizations, international organizations and teaching or research careers in universities and social research institutes.

GENERAL SOCIAL SCIENCES

The mission of the Department of General Social Sciences is the formation of a thought and critical examination in the social sciences through the development of skills in scientific and humanistic research, as well as the historical and sociocultural analysis of human activity. The pedagogical vision of our department is based on an interdisciplinary approach and integrator of the study, research and teaching of areas of thematic, methodological and research diversity and of regional studies in areas of emphasis that integrate the interdisciplinary tradition of the social sciences. This integrative vision encompasses all disciplines within the social sciences, namely: Anthropology, Political Science, Demography, Economics, Geography, History, Psychology, Sociology, and Social Work.

GOALS

1. To encourage our students to unite study, research and teaching, in order to achieve an integrated and interdisciplinary vision of the social sciences.
2. Develop an interdisciplinary and integrative undergraduate program of diverse topics and regional studies and areas of emphasis that promotes and values the

- diversity, differences, and complexity in theoretical, practical, and professional work in the social sciences.
3. Develop and promote an interdisciplinary curriculum program in the social sciences that facilitates the academic preparation of our students so that they develop theoretical, methodological, critical, scientific, and humanistic skills and competencies that harmonizes the 642 responsible and ethical values of academia in the context of Puerto Rican society and its insertion in the Caribbean and Latin American region and the global community.
 4. Develop an interdisciplinary undergraduate curriculum integrated in the social sciences that encourages and develops research skills and innovative initiatives that serve for the theoretical, practical and professional training and dissemination of knowledge in the social sciences.
 5. Facilitate and support opportunities for departmental faculty and their students to develop curricular activities and innovative projects that serve to disseminate interdisciplinary knowledge in the theory and professional practice of the social sciences.

ECONOMY

The Bachelor of Arts in Social Sciences with a concentration in Economics offers students the opportunity to begin one of the most fascinating, dynamic and comprehensive studies for the understanding of the challenges facing humanity. Economics has been an integral part of the search for understanding of society throughout the modern era. Its scope includes the origin and functioning of different economic systems over time, from market mechanisms to large national, regional and international systems.

Graduates of the Baccalaureate Program will be able to be critical of the Puerto Rican economic reality and contribute to the improvement of this reality, with technological and quantitative skills and research experience.

This baccalaureate is ideal for students with an inclination towards research, quantitative methods, and an interest in social relationships. Graduates of this Baccalaureate can work as economic statistics analysts, database managers, research assistants and other related tasks. Graduate studies in Economics, Geography, Planning, Law, Public Administration and other related fields can also pursue.

GEOGRAPHY

The University of Puerto Rico offers the only Bachelor's Degree Program in Geography on the island. Students have the opportunity to take courses and go on study trips that allow them to acquire skills, techniques and methodologies to carry out research. To this end, the Department of Geography offers courses in Cartography (map production), Geographic Research Techniques, Interpretation of Aerial Photos, Use of Computers in Geography, and Quantitative Methods, which, together with theoretical and thematic courses, provide an extremely broad frame of reference for examining the problems of human-environment interaction from various angles. Specialized workshops and courses are also offered in the most in-demand technical applications in the world. In this sense, the orientation of our department is programmatic and applied.

GOALS

1. To offer a multidisciplinary undergraduate program, integrating the social sciences with other branches of knowledge through geographical reasoning.
2. Prepare students who can contribute to the production of knowledge in geography through an integrated, ethical preparation that harmonizes with the latest technology.
3. Strengthen the participation of Geography faculty and students in research projects and technical advice.
4. To enable the publications of teachers, graduates and educators in research related to Geography.
5. Institutionalize extracurricular activities related to Geography, including local and international study trips.

PSYCHOLOGY

The Department of Psychology offers a Bachelor of Arts program with a concentration in Psychology. This baccalaureate aims to achieve in students the development of general knowledge of psychology, including theories, research methods and applications. It also aims to provide students with a broad vision of the human being as a biological, psychological, social, cultural and political subject and a rigorous, critical and ethical orientation towards research. The variety of theoretical positions in the Faculty of Psychology allows students to be exposed to unique experiences, which help to develop broader criteria when selecting a profession within and outside of psychology. It also allows for interdisciplinary education in the social sciences and the integration of studies from other faculties. Graduates of the program will learn the fundamentals of the social constitution of knowledge; identify and propose alternatives to psychological and social challenges in different cultural contexts; possess oral and written communication skills in Spanish; They will assume an ethical commitment to the challenges of the discipline and will responsibly handle technologies and their application in the educational and research exercise of psychology.

GOALS

1. To promote the development of general knowledge of the theories, research methods and applications of Psychology.
2. Promote a rigorous, critical and ethical approach to psychological research.
3. Develop a broad vision of the human being as a biological, psychological, social, cultural and political subject.
4. Promote an ethical commitment to the problems addressed by the discipline of Psychology.
5. Promote the study of Psychology to develop leading professionals in the discipline

LABOUR RELATIONS

The program prepares students to work as labor relations professionals. In other words, once they have completed high school, graduates can offer professional and technical advice to the government, unions, and commerce and industry on the rights and duties of the country's workers. Students are encouraged to seek social justice and engage with workers, regardless of the sector of work (unions, government or companies) in the future.

This baccalaureate is ideal for students interested in an inter- and transdisciplinary vision of the relations of workers with their employers, as well as the intervention of the State as a "mediator" or arbitrator of these sectors. Students are exposed to the following areas of study: sociology and psychology of work, history of the labour movement, labour law, negotiation, conciliation, mediation, arbitration, labour economics, human resources and occupational health and safety. In addition, students must pass a hands-on lab. This facilitates their integration into future professional activities and the understanding of the interrelationship between the different components of the labor field.

GOALS

1. To promote reflection and critical analysis among students, applied to the discussion of theories, approaches, paradigms and practices in the situations faced by the person in his or her working condition.
2. Promote the development of a greater sensitivity to ethical, moral and professional values aimed at generating activities and behaviors that demonstrate a sense of social and civic responsibility and respect for diversity.
3. To promote quality in the teaching and learning processes aimed at the general training of students in the various areas that make up the discipline of Labor Relations.
4. To promote the application and transfer of this knowledge to the study of social problems y the development of projects, programmes or interventions.
5. Contribute to the transformation of workers, the organizations they work for, and Puerto Rican, regional, or other society at the international level.
6. To promote and enable the development of research, in any of its modalities, and the discussion of ideas, applied to the areas that comprise the discipline of Labor Relations by teachers, students and by agreement with social or academic institutions at the national and international level.
7. Disseminate the findings and recommendations resulting from the research, both in the academic community and in the society represented and interested in such studies.

SOCIOLOGY

The Learning Program seeks to train students capable of identifying sociological research and practices. It promotes the development of critical thinking that allows an understanding of the discipline and the relation to societal transformation. This baccalaureate provides the training of fundamental concepts, theories and methodologies to understand and analyze society, its evolution and processes of historical and change, leading to positive and equitable results. The baccalaureate is aimed to provide students with training about social processes and institutions through quantitative and qualitative research techniques.

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GOALS

1. To foster a sociology that responds effectively to social and historical transformations and corresponding changes within the discipline.

2. To offer a program that assumes sociological work from an interdisciplinary perspective, contemplating other forms of knowledge production.
3. Encourage the integration of research and teaching in order to understand the interactions and dynamics that include both the structural aspects of society and human agency.
4. To prepare undergraduate students with a solid background in the theoretical and methodological aspects of the discipline, highlighting both traditional and more innovative research techniques.

SOCIAL WORK

This baccalaureate prepares generalist social workers who provide knowledge and skills that emphasize people's strengths, directing them towards the transformation of the problem situation that affects their reality. She frames her practice in the purposes, values, ethics, and competencies essential to intervening with diverse individuals, groups, and communities at economic disadvantage and exclusion. Graduates will have the opportunity to be inserted into the different components of the social welfare system, as well as in the development of public policy and social research. They can also complete graduate studies in Social Work to obtain specialized knowledge or in other related disciplines such as Law, Counseling, Counseling and Gerontology.

The program is accredited by the Council on Social Work Education (CSWE). Upon completion of the degree, students receive a provisional license that accredits them to practice the profession of social work. This baccalaureate is ideal for students with a vocation for service and the ability to work with people and communities and get involved in the development and analysis of public policy.

GOALS

1. To prepare professionals in social work who master essential competencies in generalist training, capable of integrating theory and practice within the ecosystem and other perspectives.
2. To foster students' commitment to ethical values of professional conduct, social justice, prevention of exclusion, marginalization and diversity as conceived in the practice of social work.

ADMISSION REQUIREMENTS FOR NEW STUDENTS

The student must fill out the Application for Admission to the UPR and meet the minimum Income Index (IGS) established for the requested program.

RECLASSIFICATIONS AND READMISSIONS

Students from other faculties within the Río Piedras Campus to the Faculty of Social Sciences must have passed a minimum of 24 credits in General Education courses and a General Index of 2.50 or higher for the Anthropology, Geography, and Sociology concentrations. The General Index for the concentration of Labor Relations is 2.70. For the Economics concentration the Index is 2.80 and for the Political Science, General Social Sciences, Psychology and Social Work concentrations it is 3.00 or higher.

The student must file the Application for Reclassification or Readmission with the Office of the Registrar and on the date established on the campus calendar. Students applying to the Social Work program must fill out the Application for Admission to the Program at the Social Work Office.

Student Affairs from the College of Social Sciences or the Department of Social Work. This Program is only accepting applications for August

TRANSFER STUDENT (FROM THE UPR UNIVERSITY SYSTEM)

Requests for transfers will be processed through the registrars of the different institutional units of the system on the dates established in the academic calendar. Applications filed directly by students will not be considered. Students transferring from other University of Puerto Rico campuses, in addition to the aforementioned course and GPA requirements, must have a minimum of 30 credits passed or in progress at the time of application.

TRANSFERS (FROM PRIVATE UNIVERSITIES)

Applications from other accredited universities or colleges must comply with the following provisions:

1. Submit an application to the Admissions Office on or before February 15, for the first semester, or September 15 for the second semester.
2. Have passed a minimum of 30 credits with a General Index of no less than 3.00.
3. Manage the sending, directly to the Admissions Office of the Río Piedras Campus, of two copies of the corresponding academic record of each of the university institutions where you are or have studied. Those copies must be received on or before September 20 and February 20, for the first and second semesters respectively.
4. Students from universities abroad must submit two official copies of their academic transcripts, in English or Spanish, duly certified by the institution of origin and validated by the Ministry of Education of the country of origin and the American Consulate.
5. Submit evidence of the degrees or diplomas received.
6. Submit evidence of financial resources to study in Puerto Rico.
7. Applicants from private educational institutions must also submit evidence that the institution enjoys official recognition by the country's government.
8. Manage the sending of official explanatory information on:
 - The grading system used in the assessment of academic achievement.
 - The content and level of the courses taken.
 - The number of hours per week in each subject.
 - Proficiency in English and Spanish

SPECIAL PERMITS

Students applying for Special Permission must present a written authorization from the Registrar or Dean of their university or college of origin and arrange for the sending of two official copies of their academic record. Admission will be subject to:

1. That there is room in the requested courses.
2. That the candidate files all the documentation on time.
3. Have a minimum GPA of 2.50.

GRADUATION REQUIREMENTS

To obtain the Bachelor of Arts degree, it is required to pass between 120 and 130 credits, according to the concentration, with a minimum index of 2.00.

PROGRAMS OF STUDY

ANTHROPOLOGY

FIRST YEAR

First Semester
Required Courses

Second Semester
Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
TAMALE	3	TAMALE	3
SCIENCE	3	SCIENCE	3

SECOND YEAR

First Semester
Required Courses

Second Semester
Required Courses

Literature	3	Literature	3
Course Cs. Soc.	3	ANTR 3046- Human Evolution	3
ANTR 3006- Sociocultural Anthropology	3	ANTR 3025- Principles of Archaeology	3
SOCI 3245- Principles of Sociology	3	Elective Antr.	3
MATE 3105- Appreciation of Mathematics	3	Cs Soc Course (CISO 3155)	3

THIRD YEAR

First Semester
Required Courses

Second Semester
Required Courses

SOCI 4186- Computer Techniques in Sociological Research: Scope and Limits	3	Elective Antr.	3
Elective Antr.	3	Elective Antr.	3
Elective Antr.	3	Elective Antr.	3
Course Cs. Soc.	3	Course Cs. Soc.	3
Free Elective	3	Free Elective	3

FOURTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

ANTR 4046- Theory and Method in Anthropology	3	ANTR 4098- Anthropology Seminar	3
Antr Elective	3	Elective Antr.	3
Antr Elective	3	Elective Antr.	3
Free Elective	3	Art	3
Free Elective	3	Free Elective	3
		TOTAL CREDITS	120

Directed Electives: Options to Choose From

ANTR 3001	ANTR 4087	ANTR 4195
ANTR 3035	ANTR 4096	ANTR 4215
ANTR 3045	ANTR 4097	ANTR 4216
ANTR 4001	ANTR 4099	ANTR 4225
ANTR 4002	ANTR 4135	ANTR 4227
ANTR 4010	ANTR 4155	ANTR 4255
ANTR 4035	ANTR 4156	ANTR 4265
ANTR 4065	ANTR 4165	ANTR 4275
ANTR 4086	ANTR 4186	ANTR 4305

POLITICAL SCIENCE

FIRST YEAR

First semester
Required Courses

Second semester
Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
TAMALE	3	TAMALE	3
SCIENCE	3	SCIENCE	3

SECOND YEAR

First Semester
Required Courses

Second Semester
Required Courses

Literature	3	Literature	3
CIPO 3025- Political Systems of the United States	3	CIPO 3035- The Puerto Rican Political System	3
CIPO 3156- Medieval Classical Political Thought	3	CIPO 3165- Modern Political Theory from the Italian Renaissance to the French Revolution	3
Elective Course Cs. Soc.	3	Elective Course Cs. Soc.	3
MATE 3105- Appreciation of Mathematics	3	Cs. Soc. Elective Course (CISO 3155)	3

THIRD YEAR

First Semester
Required Courses

Second Semester
Required Courses

CIPO 4215- International Theory or CIPO 4275- Modern World Politics	3	CIPO 4307- Techniques for Socio-Political Research	3
CIPO 4306- Theory of Socio-Political Research	3	Cipo Free Elective Course	3
Cs Soc. Elective Course	3	Cipo Free Elective Course	3
Cs Soc. Elective Course	3	Free Elective Course	3
Free Elective Course	3	Free Elective Course	3

FOURTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

Art	3	Cipo Elective Course	3
Cipo Elective Course	3	Cipo Elective Course	3
Cipo Elective Course	3	Cipo Elective Course	3
Cipo Elective Course	3	Free Elective Course	3
Free Elective Course	3	Free Elective Course	3
		TOTAL CREDITS	120

SOCIAL SCIENCES

FIRST YEAR

First Semester
Required Courses

Second Semester
Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3

ENGLISH	3	ENGLISH	3
TAMALE	3	TAMALE	3
CIBI or CIFI	3	SCIENCE	3

SECOND YEAR

First Semester Required Courses

Second Semester Required Courses

Literature	3	Literature	3
Cs Soc Marrow	3	Cs Soc Marrow	3
Cs Soc Marrow	3	Cs Soc Marrow	3
CISO 3065- Indigenous and Colonial Ethnohistory of Puerto Rico	3	CISO 3057- Societies and Cultures in Contemporary Latin America	3
MATE 3105- Appreciation of Mathematics	3	CISO 3155- Fundamentals of Statistical Reasoning	3

THIRD YEAR

First Semester Required Courses

Second Semester Required Courses

CISO 3086- Society and Cultures in Puerto Rico	3	Guided Course	3
CISO 3186- Societies and Cultures in the Contemporary Caribbean	3	CISO 3011- Social Issues in Puerto Rico	3
Cs Soc Marrow	3	CISO 3157- Language, Culture and Society in Puerto Rico	3
Cs Soc Marrow	3	CISO 4055- Contemporary Society of Puerto Rico	3
CISO 4007- Bibliographic Research and Management of Documentary Sources in the Social Sciences	3	Free Elective	3

FOURTH YEAR

First Semester Required Courses

Second Semester Required Courses

CISO 4085- The Catholic Church and Protestant Churches in Puerto Rico	3	CISO 4306- The Puerto Rican Experience in the United States	3
CISO4166- Women in Contemporary Puerto Rico	3	CISO 4595- Youth and Society in Puerto Rico	3
Free Elective	3	Free Elective	3
Free Elective	3	Art	3
Free Elective	3	Free Elective	3
		TOTAL CREDITS	120

ECONOMY

FIRST YEAR

First Semester
Required Courses

Second Semester
Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
TAMALE	3	TAMALE	3
ECON 3027- Analytical Techniques for Economists	3	ECON 3021- Principles of Economics I	3

SECOND YEAR

First Semester
Required Courses

Second Semester
Required Courses

Elective Cs Soc. I	3	Elective Cs Soc II	3
Literature	3	Elective Cs Soc III	3
Cina	3	Cina	3
ECON 4121- Mathematical Foundations of Economics I	3	Literature	3
ECON 3022- Principles of Economics II	3	ECON 4381- Microeconomic-Intermediate Analysis	3

THIRD YEAR

First Semester
Required Courses

Second Semester
Required Courses

ECON 3031- Statistical Methods I and II	3	ECON 3032- Statistical Methods I and II	3
ECON 4382- Macroeconomic Analysis - Intermediate	3	ECON 4166- Economy of Puerto Rico	3
Econ I Elective	3	Econ Elective. II	3
Free Elective I	3	Free Elective II	3
Elective Cs Soc IV	3	Art	3

FOURTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

ECON 4416- Seminar: Methods of Economic Research	3	ECON 4055- History of Economic Thought	3
Econ Elective. III	3	Free Elective V	3
Econ Elective. IV	3	Free Elective VI	3
Free Elective III	3	Econ Elective. V	3
Free Elective IV	3	Econ Elective. SAW	3
TOTAL CREDITS			120

Directed Electives: Options to Choose From

ECON 3065	ECON 4155	ECON 4305
ECON 3085	ECON 4165	ECON 4326
ECON 4015	ECON 4175	ECON 4335
ECON 4025	ECON 4396	ECON 4345
ECON 4045	ECON 4205	ECON 4355
ECON 4065	ECON 4215	ECON 4365
ECON 4087	ECON 4225	ECON 4376
ECON 4095	ECON 4265	ECON 4385
ECON 4105	ECON 4271-4272	ECON 4415
ECON 4122	ECON 4285	ECON 5005
ECON 4125		

PSYCHOLOGY

FIRST YEAR

First Semester

Required Courses

Second Semester

Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
TAMALE	3	TAMALE	3
CIBI	3	CIBI	3

SECOND YEAR

First Semester

Required Courses

Second Semester

Required Courses

LITERATURE	3	LITERATURE	3
MATE 3105- Appreciation of Mathematics	3	CISO 3155- Fundamentals of Statistical Reasoning	3
PSIC 3003- Introduction to General Psychology	4	PSIC 3006- Social Psychology	3
CISO 3086- Society and Cultures in Puerto Rico	3	PSIC 3046- History of Psychology	3
Cs Soc Course	3	Cs Soc Course	3

THIRD YEAR**First Semester**

Required Courses

Second Semester

PSIC 3025- Human Development	3	PSYCHOLOGY ELECTIVE	3
PSIC 4001- Research Methodology in Psychology	3	PSIC 4002- Research Methodology in Psychology II	3
Free Elective	3	Free Elective	3
Cs Soc Course	3	Course In Cs Soc	3
Psychology Elective	3	Psychology Elective	3

FOURTH YEAR**First Semester**

Required Courses

Second Semester

Required Courses

Psychology Elective	3	Psychology Elective	3
Psychology Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Art	3
Cs Soc. Course	3	Cs Soc. Course	3
		TOTAL CREDITS	121

SOCIOLOGY**FIRST YEAR****First Semester**

Required Courses

Second Semester

Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
TAMALE	3	TAMALE	3
SCIENCE	3	SCIENCE	3

SECOND YEAR**First Semester**

Required Courses

Second Semester

Required Courses

LITERATURE	3	LITERATURE	3
SOCI 3245- Principles of Sociology	3	CISO 3155- Fundamentals of Statistical Reasoning	3
ANTR 3046- Human Evolution	3	SOCI 4186- Computer Techniques in Sociological Research: Scope and Limits	3

Cs Soc. Course	3	SOCI 4005- Sociological Theory	3
MATE 3105- Appreciation of Mathematics	3	Cs Soc. Course	3

THIRD YEAR

First Semester
Required Courses

Second Semester
Required Courses

SOCI 3267- Sociological Research Techniques	3	SOCI 4187- Methodology of Sociological Research	3
Elective	3	Soci Elective	3
Soci Elective	3	Soci Elective	3
Cs Soc Course	3	Cs Soc Course	3
Cs Soc Course	3	Free Elective	3

FOURTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

ART	3	Soci Elective	3
Soci Elective	3	Soci Elective	3
Soci Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
TOTAL CREDITS			120

DIRECTED ELECTIVES: OPTIONS TO CHOOSE FROM

SOCI 3005	SOCI 3335
SOCI 3045	SOCI 3355
SOCI 3055	SOCI 3385
SOCI 3065	SOCI 3395
SOCI 3076	SOCI 3405
SOCI 3077	SOCI 4008
SOCI 3085	SOCI 4025
SOCI 3095	SOCI 4026
SOCI 3105	SOCI 4035
SOCI 3115	SOCI 4045
SOCI 3135	SOCI 4105
SOCI 3165	SOCI 4115
SOCI 3175	SOCI 4155
SOCI 3185	SOCI 4170
SOCI 3195	SOCI 4175
SOCI 3235	SOCI 4190
SOCI 3275	SOCI 4205
SOCI 3295	SOCI 4215
SOCI 3305	SOCI 4225

SOCI 3315
SOCI 3325

SOCI 4227
SOCI 5009

SOCIAL WORK

FIRST YEAR

First Semester
Required Courses

Second Semester
Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
TAMALE	3	TAMALE	3
CIBI	3	CIBI	3

SECOND YEAR

First Semester
Required Courses

Second Semester
Required Courses

TSOC 3005- The Social Welfare System	3	TSOC 4004- Human Behavior and Social Environment II	3
TSOC 3015- Social Work as a Profession	3	TSOC 4030- Oppression, Inequality, and Social Work	3
TSOC 4003- Human Behavior and Social Environment I	3	SOCI 4005- Sociological Theory	3
SOCI 3245- Principles of Sociology	3	MATE	3
FREE ELECTIVE	3	TSOC ELECTIVE	3

THIRD YEAR

First Semester
Required Courses

Second Semester
Required Courses

TSOC 4011- Generic Approach and Intervention with People in the Family Context I	3	TSOC 4012- Generic Approach and Intervention with People in the Family Context II	3
CISO 3155- Fundamentals of Statistical Reasoning	3	ECON 3005- Introduction to Economics	3
PSIC 3003- Introduction to General Psychology	4	Literature	3
Literature	3	FREE ELECTIVE	3
Free Elective	3	TSOC 3131- Scientific Research in Social Work I	3

FOURTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

TSOC 4025- Professional Practice with Groups and the Community	3	TSOC 4027- Community Organization and Social Policy	3
CISO 3086- Society and Cultures in Puerto Rico or HIST 3241- History of Puerto Rico or HIST 3242- History of Puerto Rico	3	Free Elective	3
CISO 3011- Social Problems in Puerto Rico or SOCI 3335- Social Problems or SOCI 3275- Sociology of Behavior Variation	3	Tsoc Elective	3
TSOC 3132- Scientific Research in Social Work II	3	ART	3
Free Elective	3	CIPO 3011- Principles and Problems of Political Science	3

FIFTH YEAR

First Semester
Required Courses

Second Semester
Required Courses

TSOC 4065- Supervised Practice	6		
FREE ELECTIVE	3		
TOTAL CREDITS			130

Directed Electives: Options to Choose From

TSOC 4026
TSOC 4028
TSOC 4029
TSOC 4036
TSOC 4047

TSOC 4095
TSOC 4195
TSOC 4205
TSOC 4206
TSOC 4215

LABOUR RELATIONS

FIRST YEAR

First Semester
Required Courses

Second Semester
Required Courses

Social sciences	3	Social sciences	3
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ESPA	3	ESPA	3
TAMALE	3	TAMALE	3
ENGLISH	3	ENGLISH	3
Logical Mathematical Thinking or Quantitative Analysis	3	Arts	3
		Elective	3

SECOND YEAR

First Semester Required Courses

Second Semester Required Courses

RELA 3025- History of Labor Movements	3	RELA 3095- Structure, Organization, Administration and Government of Workers' Unions	3
CISO 3155- Fundamentals of Statistical Reasoning	3	RELA 3085- Introduction to Labor Research and Statistical Methods	3
Introductory Course on Social Sciences	3	ECON 3005- Introduction to Economics	3
RELA 3005- Work and Society: An Overview	3	RELA 3115- Introduction to Human Resources Analysis, Policy and Programs	3
RELA 3015- Human Behavior in the World of Work	3	Elective	3
RELA 3031- Business Administration I & II	3		

THIRD YEAR

First Semester Required Courses

Second Semester Required Courses

RELA 3045- Labor Relations Laws	3	RELA 3065- Collective Bargaining	3
RELA 3075- Labor Economics	3	Literature	3
Literature	3	RELA ELECTIVE	3
Natural sciences	3	RELA ELECTIVE	3
Elective	3	Natural sciences	3
Introductory Course on Social Sciences	3	Elective	3

FOURTH YEAR

First Semester Required Courses

Second Semester Required Courses

RELA 4035- Measurement, Conciliation and Arbitration	3	RELA 4045- Practical Laboratory in Labor Relations	6
Rela Elective	3		
Elective	3		
Elective	3		
TOTAL CREDITS			120

Directed Electives: Options to Choose From

RELA 3035	RELA 3165
RELA 3055	RELA 4006
RELA 3105	RELA 4015
RELA 3135	RELA 4016
RELA 3145	RELA 4025
RELA 3150	RELA 4055
RELA 3155	RELA 4065

GEOGRAPHY

FIRST YEAR

First Semester
Required Courses

Second Semester
Required Courses

CISO 3121- Introduction to Social Sciences	3	CISO 3122- Introduction to Social Sciences II	3
ESPA	3	ESPA	3
ENGLISH	3	ENGLISH	3
TAMALE	3	TAMALE	3
CIBI OR CIFI	3	CIBI OR CIFI	3

SECOND YEAR

First Semester
Required Courses

Second Semester
Required Courses

Mathematics	3	Literature	3
Art	3	GEOG 3285- Elements of Cartographies	3
Literature	3	GEOG 3250- Introduction to Quantitative Methods in Geography	3
GEOG 3100- Elements of Geography	3	SOCIOLOGY	3
MILESTONE	3	PSYCHOLOGY	3

THIRD YEAR

First Semester
Required Courses

Second Semester
Required Courses

GEOG 3165- Geography of Puerto Rico	3	GEOG 4500- History and Philosophy of Geography	3
GEOG 3475- Introduction to Geographic Information Systems	3	THEMATIC CARTOGRAPHY	3

Economy	3	Elective in Geography	3
Elective in Geography	3	Elective in Geography	3
Elective in Geography	3	Elective in Geography	3

FOURTH YEAR

First Semester

Required Courses

Second Semester

Required Courses

GEOG 4550- Methods of Geographic Research	3	Free Elective	3
Elective in Geography	3	Elective in Geography	3
Elective in Geography	3	Elective in Geography	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
TOTAL CREDITS			120

FACULTY OF SOCIAL SCIENCES

- Acevedo Gaud, Luz del Alba; Ph.D., University of Illinois Chicago, 1993; Professor.
- Albite Vélez, Lillian; Ph.D., University of Puerto Rico (Río Piedras), 2005; Professor.
- Aneses Pena, José A.; LL.M., New York University, 1976; Assistant Professor.
- Báez Lebrón Maribel; Ph.D., University of Puerto Rico (Río Piedras), 2012; Assistant Professor.
- Barreto Cortes, Esterla; Ph.D., Brandez University, 1999; Professor.
- Betancourt Serrano, Alex; Ph.D., University of Massachusetts, 2006; Associate Professor.
- Cáceres Cruz, Virgin Mary; Ph.D., University of Puerto Rico (Río Piedras), 2004; Auxiliary Catedratic.
- Cámara Fuertes, Luis R.; Ph.D., University of Michigan, 1999; Professor.
- Carrión Morales, Juan M.; Ph.D., Rutgers University, 1978; Professor.
- Cintrón Bou, Francheska N; Ph.D., University of Puerto Rico (Río Piedras), 2006; Assistant Researcher.
- Colón Morera, José Javier; Ph.D., Boston University, 1992; Professor.
- Cotto Serrano, Raul L.; Ph.D., University of Massachusetts, 1990; Associate Professor.
- Cruz Bermúdez, Nelson D.; Ph.D., Brandez University, 2007; Assistant Professor.
- Cumba Avilés, Eduardo; DSS, University of Puerto Rico (Río Piedras), 2004; Assistant Researcher.
- Dávila Marrero, Elixmahir; Ph.D., University of Puerto Rico, 2005, Assistant Professor.
- Del Valle Caballero, Jaime; Ph.D., University of Machester, 1988; Professor.
- Díaz-Porto Robles, María; Ph.D., University of Valencia, 2010; Assistant Professor.

- Echevarría Díaz, Elba; Ed.D., University of Puerto Rico (Río Piedras), 2010; Assistant Professor.
- Espada Brignoni, Teofilo; Ph.D., University of Puerto Rico, 2015, Assistant Professor.
- Galarza García, Laura; Ph.D., Rice University, 2000; Assistant Professor.
- García Ramos, Tania; Ph.D., Universidad Complutense de Madrid, 1995, Professor.
- Garriga Picó, José E.; Ph.D., New York University, 1979; Professor.
- Giovannetti Torres, Jorge; Ph.D., University of North London, 2002. Professor.
- Gómez Escudero, María de los A.; Ph.D., University of Paris V, 1991; Professor.
- Gonzalez Guerra, Migdalia; Ed.D., Inter-American University, 1995; Associate Professor.
- Guadalupe Sanabria, Rebeca; BBA, University of Puerto Rico (Río Piedras), 1998.
- Guilbe López, Carlos J.; Ph.D., University of Wisconsin, 1999; Professor.
- Irizarry Fonseca, Lesley O.; Ph.D., University of Iowa, 2011; Assistant Professor.
- Jiménez Torres, Aida L; Ph.D., University of Puerto Rico, 1993, Associate Professor.
- Laborde Rivera, José E.; Ph.D., State University of New York-Stony Brook, 2008; Associate Professor.
- Lara Fontañez, Juan; Ph.D., New York University, 1981; Professor.
- Lluch Aguilú, Jaime; Ph.D., Yale University, 2007; Professor.
- López Román, Félix A.; Ph.D., Universidad Complutense de Madrid, Spain, 2016. Associate Professor.
- López Sotomayor, Diana Ivonne; M.A., National School of Anthropology and History, Mexico, 1973; Professor.
- Luciano Montalvo, Indira; Ph.D., Universidad Autónoma de México, 2005; Associate Professor.
- Mars, Lidia; Ph.D., University of Texas, Austin, USA, 2008; Assistant Professor.
- Martínez Mejías, Sylvia; Ph.D., University of Puerto Rico, 1998, Associate Professor.
- Martínez Ramírez, Héctor M.; Ph.D., University of Michigan, 2000; Professor.
- Méndez Castillo, Milagros A.; Ph.D., Fordham University, 1993; Associate Professor.
- Miranda Gierbolini, Dolores; Ph.D., Temple University, 1987, Professor.
- Montañez Concepción, Isabel C.; Ph.D., University of Puerto Rico (Río Piedras), 2008; Associate Professor.
- Morales Arandes, Edgardo; Ph.D., Boston University, 1986; Associate Professor
- Morales Cortes, Edwin H.; D.Sc., Universidad Carlos Albizu Campos, 2000; Associate Professor.
- Moreno Torres, Mary Annette; Ph.D., University of Puerto Rico (Río Piedras), 1998; Research Associate.
- Muriente Pérez, Julio A.; Ph.D., University of Puerto Rico (Río Piedras), 2005; Professor.
- Negrón Velázquez, Gisela, Ph.D., Rutgers, the State University of New Jersey, 1994, Professor.
- Nina Estrella, Ruth Virginia; Ph.D., Universidad Autónoma México, 1991; Professor.
- Pantojas García, Emilio; Ph.D., University of Liverpool, 1983; Researcher.

- Pérez Rivera, Jaime Moisés, Ph.D., University of Puerto Rico, Río Piedras. Associate Professor.
- Quiñones Pérez, Argeo Tomas; M.A., University of Massachusetts, 1983; Professor.
- Quintero Rivera, Angel G.; Ph.D., University of London, 1976; Professor.
- Rodríguez Álamo, Evelyn; Ph.D., National Autonomous University of Mexico, 1973; Professor.
- Rodríguez Gómez, José; Ph.D., Fordham University, 1993; Associate Professor.
- Rodríguez Ramos, Carlos; Ph.D., Universidad Nacional Autónoma de México, 2001; Professor.
- Rosado Rodríguez, Efraín; MA, University of Puerto Rico (Río Piedras), 1998; Instructor.
- Santiago Estrada, Sara; Ph.D., University of Puerto Rico, 2013, Associate Professor.
- Segarra Almestica, Eileen V.; Ph.D., UC Berkeley, 1998; Associate Professor.
- Severino Valdez, Carlos E.; Ph.D., Von Humboldt University, 1988; Professor.
- Silva Martinez, Elithet; Ph.D., University of Iowa, 2009; Assistant Professor.
- Stinson Fernandez, John H.; D.Sc., Temple University, 1994; Professor.
- Tapia Santamaría, Jesús; Ph.D., University of Paris, 1982; Professor.
- Tirado Santiago, Giovanni; Ph.D., McGill University, 2006; Associate Professor.
- Vale Nieves, Otomie; Ph.D., University of Puerto Rico (Río Piedras), 1993; Professor.
- Varela Llavona, Angelica; Ph.D., Ohio University, 1981; Associate Professor.
- Vázquez Ramos, Robinson A.; Ph.D., University of Iowa, 2003; Associate Professor.
- Vélez Serrano, Mayra, PhD; State University of New York at Buffalo, 2013; Associate Professor.
- Vogel Beckert, Joseph H.; Ph.D., Rutgers University, 1987; Professor.

SOCIAL SCIENCE COURSES

ANTR 3001 - Introduction to Anthropology

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Panoramic view of the discipline, integrating sociocultural anthropology, archaeology, linguistic anthropology and physical anthropology. Emphasis on the main methods of anthropological research and on central topics such as the origin of the human being, biological diversity, language development, and cultural variety.

ANTR 3006 - Sociocultural Anthropology.

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

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, the concept of race, and comparative analysis of the state. Face-to-face, hybrid and online course.

ANTR 3025 - Principles of Archaeology

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Central aspects of the development of Archaeology and its subspecialties as well as the main contemporary theoretical debates. Discussion of the basic techniques and research modalities of modern archaeology. Face-to-face, hybrid and online course.

ANTR 3035 - Cultural Variety in the Caribbean

Three credits. Prerequisite: CISO 3121-3122. Three hours of lecture a week.

Analysis of Caribbean socio-economic formations, with particular attention to their cultural manifestations, such as language, music and religion. Topics such as the rise of African-American culture, the legacy of the slave plantation, and ethnic and racial relations are highlighted.

ANTR 3045 - Urban Ecology

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Study of urban settlements as a product of the interrelation of cultural and natural processes, as well as changes in the distribution of space in contemporary cities. Critical perspective of the main problems of urban planning.

ANTR 3046 - Human Evolution

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Study of the origin, evolution and variation of the human species in its biological context. Comparison of fossil and molecular evidence to understand early human societies. Discussion of major debates on human diversity. Face-to-face, hybrid and online course.

ANTR 4001 - Anthropology and the Study of Religion

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Definition of the anthropological concept of religion. Discussion of fundamental theories about the origins and evolution of the so-called primitive religions. Comparative study of the relationships between religion, social structure, cultural complexity, social change, distribution of power, and worldviews.

ANTR 4002 - Demographic Anthropology

Three credits. Three hours lecture week prerequisite: ANTR 3001, 3006, 3046 or CISO 3007.

Comparative study of human population systems in Western and non-Western cultures. Discussion of the biocultural processes of human populations, population expansion, cultural strategies about fertility, the use of natural resources, and the impact of such strategies. Emphasis on the ethnographic method for collecting population data.

ANTR 4010 - Gender Studies in Anthropology and Archaeology

Three credits. Three hours of discussion and fieldwork per week.

Prerequisite: CISO 3121-3122.

Study of different cultural formations and theoretical perspectives on gender relations. Discussion of the origin of the sexual division of labor, the relationship between gender and culture, and changes in the position of women in contemporary societies.

ANTR 4018 - Seminar: Bioarchaeology

Three credits. Three hours of seminar per week.

Scientific study of human remains from a prehistoric or historical archaeological context that allows research and interpretations of biological, social and ecological events generated during the life span of human beings. The main goal of this seminar is for students to carry out a critical discussion of the theoretical, methodological, and technical foundations developed in the area of Bioarchaeology necessary to reconstruct the social and biological dynamics of ancient human populations from a biocultural perspective. The seminar is designed to provide students with the theoretical and practical knowledge necessary to discuss, select and develop research on specific topics addressed in the seminar based on a multidisciplinary approach and a biocultural perspective. Among the topics discussed in the seminar are: mortuary or funerary treatment, presence of intentional bodily alterations, ecological and demographic aspects, as well as indicators of health conditions, nutrition, physical activity and interpersonal conflict which can be inferred from the analysis of bones and teeth.

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ANTR 4019 - Seminar: Forensic Anthropology

Three credits. Three hours of seminar per week.

Scientific study of human remains from a medico-legal context The main goal of this seminar is for students to carry out a critical discussion of the theoretical, methodological and technical foundations developed in the area of forensic anthropology, applied both at the scene of the crime and in the identification process based on the scientific analysis of the human skeleton. The seminar is designed to offer a theoretical and practical experience that allows students to discuss, select and develop an investigation of specific topics in the area of forensic anthropology related to the recovery of human remains at the scene of the crime, forensic taphonomy, estimation of age at death, determination of sex, ancestry affiliation, height estimation, methods for establishing positive identification, taphonomic processes, postmortem interval estimation, bone trauma, ethical issues, and testimony as an expert witness in court.

ANTR 4020 - Seminar: Human Paleontology

Three credits. Three hours of seminar per week.

Scientific study of diseases in ancient human populations. The main goal of this seminar is for students to carry out a critical discussion of the theoretical, methodological and technical foundations developed in the area of human paleontology important to establish the health and disease conditions of ancient human populations from the analysis of human skeletal remains, mummified bodies, artistic representations and ethnohistorical sources. The seminar is designed to provide students with the theoretical and practical knowledge necessary to

discuss, select and develop research on specific topics addressed in the seminar based on a multidisciplinary approach and a biocultural perspective.

ANTR 4035 - Medical Anthropology

Three credits. Three hours of lecture a week.

Comparative analysis of cultural definitions of health and disease. Discussion of both the methodology of socio-historical epidemiology and the diversity of ethnomedical systems. It also studies the historical structure of the medical system, with particular emphasis on its power structure.

ANTR 4046 - Theory and Method in Anthropology

Three credits. Three hours of lecture a week. Prerequisite: ANTR 3006, 3025, 3046.

Analysis and discussion of theoretical models and methodological conceptions in the discipline, with emphasis on contemporary sociocultural anthropology.

ANTR 4065 - Anthropological Linguistics

Three credits. Three hours of lecture a week. Prerequisite: CISO 2131-3122.

Basic principles and methods of anthropological research on language in its sociocultural context. Analysis of the relationship between nationality, discrimination and stereotypes

language power schooling identity

ANTR 4086 - Archaeology and Public Policy

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122, ANTR 3025.

Discussion of the background of a public policy on archaeological remains in Europe in the nineteenth century and its extension to other parts of the world. Analysis of concepts such as cultural heritage, world heritage and national heritage in the legal and academic framework of the twentieth century. Analysis of the role of international organizations and national government institutions. Face-to-face, hybrid and online course.

ANTR 4087 - Archaeology of the Caribbean

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122, ANTR 3025.

Analysis of the indigenous cultures of the region, with an emphasis on Puerto Rico. Historical development of archaeological work from the chroniclers to the modern schools.

ANTR 4096 - Analysis of Archaeological Materials

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122, ANTR 3025.

Discussion of the main approaches and classificatory systems of archaeological artifacts. Introduction to typological classification; nomenclatures and taxonomies; the basic principles of measuring and illustrating artifacts; the inferential process and the basic quantitative analysis. Face-to-face, hybrid and online course.

ANTR 4097 - Field Archaeology

Six credits. Three hours of lecture per week and nine hours of workshop per week. Prerequisite: Professor's permission, CISO 3121-3122, ANTR 3025.

Practical application of basic knowledge of archaeological research. Research design, field and laboratory techniques.

ANTR 4098 - Anthropology Seminar

Three credits. Three hours of seminar per week. Prerequisites: CISO 3121-3122, ANTR 3006, ANTR 3025, ANTR 3016, ANTR 4046.

Reflection on the formative experiences of students in the field of anthropology. Integration of knowledge through the presentation of a research project in the various specialties and subspecialties of the discipline.

ANTR 4099 - Archaeology of Mesoamerica.

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

Overview of the pre-Hispanic history of the region. Critical analysis of the concept of the "cultural area" and revision of the nomenclature referring to periods and chronology. Development of State Societies and Peripheral Indigenous Groups in Regional Histories.

ANTR 4135 - Political Anthropology

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, CISO 3122.

Comparative analysis of power and resistance as forms of domination and subordination in different social and cultural contexts. Discussion of pre-industrial political systems, the rise of the state, the role of ritual in politics, colonialism, national identities, gender and power, and globalization.

ANTR 4145 - The Andean World

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Overview of Andean cultures in the pre-Hispanic, colonial, and republican periods, with emphasis on indigenous cultures. Analysis of the ethnic-national question, indigenism, cultural diversity and forms of indigenous organization.

ANTR 4156 - Ecology, Culture and Society

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Study of the effects of the environment on the cultural development of various human populations, both biologically and culturally. Discussion of environmental stressors, resource availability, climate effects, and cultural responses to ensure the survival of human settlements.

ANTR 4165 - Ethnology of Mesoamerica

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Study of the region based on its pre-Hispanic antecedents. Origin and development of the category of Mesoamerica. Discussion of key topics such as language, oral tradition, mythology, science, medicine, and indigenous music.

ANTR 4186 - Topics in Physical Anthropology

Three credits. Three hours of lecture per week Prerequisite: CISO 3121-3122.

Study of a particular topic within this field of specialty. This course can be repeated a maximum of two times (six credits).

ANTR 4195 - Independent Studies in Anthropology.

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121, CISO 3122.

Design and execution of an individual research under the supervision of a faculty member. This course can be repeated a maximum of two times (six credits).

ANTR 4215 - Cross-Cultural Psychiatry: Culture, Madness, and Power

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122.

Analysis of the relationship between culture, social structure, health and mental illness. Emphasis on theoretical and methodological debates on cross-cultural psychiatry; the Comparative Study of Ethnopsychiatric Systems; and the historical development of the asylum. Discussion of responses to the professional and institutional crisis of mental health services.

ANTR 4216 - Ethnography and Fieldwork

Three credits. Three hours of lecture per week until completing 21 and 24 hours of fieldwork. Prerequisite: ANTR 3006 and ANTR 4046.

Discussion on the epistemological status of field ethnography in social anthropology. Teaching of the fundamental techniques of ethnographic research in seminar sessions in the classroom and training in them through research exercises in the practice of fieldwork.

ANTR 4225 - Anthropology of Cities.

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121, CISO 3122.

Study of the urban phenomenon from an anthropological perspective, including the origin and evolution of cities, and the theoretical frameworks and research strategies for analyzing urban settlements. Discussion of basic problems of urban coexistence, such as poverty, immigration, racial and ethnic segregation, suburbanization, and the urban informal sector.

ANTR 4227 - Latino Cultures in the United States

Three credits. Three hours of lecture and discussion per week. Prerequisite: CISO 3121-3122.

Analysis of the historical origins and contemporary situation of populations of Latin American descent in the United States. Emphasis on the construction and transformation of identities. Discussion of the similarities and differences between the major Latino groups: Mexicans, Puerto Ricans, Cubans, and Dominicans. Face-to-face, hybrid and online course.

ANTR4255 - The Urban Experience: Metropolitan San Juan.

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121, CISO 3122.

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 suburbs, hamlets and housing estates.

ANTR 4265 - Topics in Social/Cultural Anthropology.

Three credits. Three hours of discussion and fieldwork a week. Prerequisite: CISO 3121, CISO 3122.

The study of a particular topic within this field of specialization, whether theoretical, methodological or geographical. This course can be repeated a maximum of two times (six credits).

ANTR 4275 - History of Anthropological Thought.

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: ANTR 3006.

Discussion of the development of anthropology, its main schools of thought, and the fundamental debates in the history of the discipline. Emphasis on sociocultural anthropology.

ANTR 4305 - Topics in Archaeology.

Three credits. Three hours of lecture a week.

The study of a particular topic within this field of specialization, whether theoretical, methodological or geographical. This course can be repeated a maximum of two times (six credits).

CIPO 3006 - Introduction to Comparative Politics

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

It studies the various factors that produce differences and similarities between political systems, government institutions, and public policy processes between states, countries, or regions. The comparative approach is used as a conceptual and methodological framework to explain the divergences and convergences between political structures, processes and phenomena. Three fundamental questions are answered: 1) What is politics? 2) Why and how is politics studied from a comparative perspective? What are the recurring themes and empirical research in the area of comparative politics? Face-to-face, hybrid and online course.

CIPO 3011 - Principles and Problems of Political Science

Three credits. Three hours of lecture a week.

Different visions of political life. Analysis of the most important processes and institutions involved in collective decision-making in the political system. Application of the contents of the first two questions to the particular case of Puerto Rico. The course can be offered face-to-face, hybrid, or online.

CIPO 3015 - Principles and Problems of Political Science for Students of the Political Science Concentration.

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

Study of the fundamental concepts of the various subfields of political science. Its format is oriented towards political science as a discipline of concentration.

CIPO 3025 - Political Systems of the United States

Three credits. Three hours of lecture a week.

The historical background of the American constitutional government and the political theory that served as the basis of this system of government at the national level and the particular style of its political process will be studied, with special emphasis on the separation of powers, federalism and the role played by interest groups and political parties. Face-to-face, hybrid and online course.

CIPO 3035 - The Puerto Rican Political System

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Historical and analytical study of the government of Puerto Rico from 1898 to the present: the institutions developed during the period of U.S. rule (1898-1952); the constitution of the Commonwealth of Puerto Rico; the legislative, executive, and judicial branches; municipal governments and relations between Puerto Rico and the United States. Face-to-face, hybrid and online course.

CIPO 3045 - International Organizations

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Analytical study of contemporary political institutions, with particular attention to the problem of the balance of power, the European concert, the League of Nations and the United Nations.

Face-to-face, hybrid and online course.

CIPO 3055 - The Legislative Process

Three credits. Three hours of lecture a week. Prerequisite: For juniors and seniors.

Analysis of the legislative process with special reference to the United States and Puerto Rico. Study of the structure, composition, and functions of the legislative branch, as well as its relationship to the other branches of government. The course pays particular attention to the role of political parties and lobbyists on legislation.

CIPO 3085 - Political Sociology

Three credits. Three lecture hours per week prerequisites: CIPO 3011 and SOCI 3245.

This course analyzes the ways and conditions in which the social system affects the actions and ordering of the political system. Importance will be given to the problem of the autonomy of the political system with respect to the social system.

CIPO 3095 - Comparative Municipal Systems

Three credits. Three lecture hours per week Prerequisite: CIPO 3011.

Principles and problems of local government with special attention to the forms of municipal government in Puerto Rico, their attributions and the fundamental problems they face.

CIPO 3105 - European Country Policy

Three credits. Three hours of lecture and discussion per week. Prerequisite: CISO 3121-3122.

Study of the policy of the governments of European countries. The course analyzes the institutions, processes, relationships, and political and economic problems of the cases under study, taking into consideration their historical development and social conditions. In addition, it analyzes the scope and limitations of regional political and economic integration. The course combines lecture with group discussion. It covers topics of interest to students of political science in their third year of study, particularly to students in the areas of emphasis of comparative politics and political systems, and international relations. Face-to-face, hybrid and online course.

CIPO 3125 - History of Diplomacy

Three credits. Three hours of lecture a week.

The history of the diplomatic method from the Renaissance to the present. The course will examine the use of this method in the most important international events during that time. It will also evaluate the effectiveness and shortcomings of the diplomatic method.

CIPO 3135 - Rule of Law, Government, Administration and Public Policy.

Three credits. Three hours of lecture a week.

It studies the origin and importance of the democratic rule of law, fundamental concepts of public administration, the legal and constitutional bases of government in Puerto Rico, and problems related to the determination of the implementation of public policies in a democratic political system. It serves as a core course in the area of emphasis in government, law, and public policy, and offers relevant and adequate preparation for continuing graduate studies in these areas and in public administration. It fulfills its teaching goals through a combination of lectures and presentations by faculty and students, reading analysis, and opportunities to conduct empirical and group research on public policy in Puerto Rico. Aimed mainly, but not limited to, students of the Bachelor's Degree in Political Science.

CIPO 3145 - Greco-Roman Political Theory.

Three credits. Three hours of lecture a week.

Systematic study of the political theory of the Greco-Roman world in the representative thinkers of that period.

CIPO 3155 - Medieval Christian Political Theory

Three credits. Three hours of lecture a week.

Systematic study of medieval Christian political theory in the works of the representative thinkers of that period. Face-to-face, hybrid and online course.

CIPO 3156 - Classical and Medieval Political Thought

Three credits. Three hours of lecture a week.

Systematic study of classical and medieval political theory in the representative thinkers of that period. The course can be offered face-to-face, hybrid, and online.

CIPO 3165 - Modern Political Theory from the Italian Renaissance to the French Revolution.

Three credits. Three hours of lecture a week.

Systematic study of political theory from the Italian Renaissance to the French Revolution through the representative thinkers of the period. The course can be offered face-to-face, hybrid, and online.

CIPO 3195– Ethics from a Global Perspective

Three credits. Three hours of lecture a week.

Ethical analysis applied to social, environmental and economic problems with global repercussions whose ethical solutions require concerted group and individual efforts. Possible ethical solutions will be identified in the analysis of the responsibilities of citizens of developed countries.

CIPO 4005 - U.S. Constitutional Law

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Study of the constitutional system of the United States through the analysis of the main cases decided by the Supreme Court of the United States throughout its history, placing special emphasis on the most recent cases. Face-to-face, hybrid and online course.

CIPO 4025 - Public Opinion and Propaganda

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

It examines what public opinion is, what its psycho-social determinants are, how it is communicated and measured, and what its influence is on political action. It also deals with propaganda, publicity and other ways of shaping public opinion and techniques for persuading the masses. The objective is to train students to understand these processes and their importance in democratic societies. It is offered in the nature of a discussion and research seminar and has a comparative approach. To achieve its objectives, presentations by the teacher, discussion of readings in class and group research are combined. It is primarily aimed at students in the political science baccalaureate, but can be taken by students from other concentrations to learn about public policy and propaganda.

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CIPO 4035 - Political Parties

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

The historical origin of political parties, their sociological characteristics, their forms of organization and their various relationships with the political system, electoral methods and public opinion will be studied. It will emphasize the general theory on these aspects, and apply that theory to the concrete experiences of Puerto Rico and the United States. Face-to-face, hybrid and online course.

CIPO 4065 - Public International Law

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Study of the law governing relations between states and international institutions; theories, principles, positive norms, etc.

CIPO 4085 - U.S. Foreign Policy

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

A study of the basic problems of the United States, its international relations, the means of formulating foreign policy, and policy toward the various regions of the world, and toward international organizations. The class is conducted through lectures and discussions in the form of a seminar. Face-to-face, hybrid and online course.

CIPO 4086 - Foreign Policy of Russia

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.

Study of Russia's foreign policy, continuity and changes from the collapse of the Soviet Union (1989-92) and the end of the Cold War, to the present. The course uses the historical-interpretive approach combining lecture with group discussion and independent research and studies. The course is recommended to undergraduate students in their study room, particularly those interested in the area of emphasis of international relations.

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CIPO 4095 - Political Systems of the Caribbean

Three credits. Three hours of lecture a week.

Constitutional, political and governmental developments and practices in the countries of the Caribbean area including the Antilles, Mexico, Central America, Colombia and Venezuela.

CIPO 4105 - Latin American Politics

Three credits. Three hours of lecture a week.

Study of political change and governments in Latin America. The course analyzes elements of the political and governmental dynamics of countries, their relationship to social and economic change, and the international context. The course has a comparative approach that combines theoretical analysis with the study of concrete experiences in the conference sessions, group discussion and individual study and research. Face-to-face, hybrid and online course.

CIPO 4106 - The U.S. Congress

Three credits. Three hours of seminar per week. Prerequisite: CIPO 3025.

A detailed and in-depth look at the legislative branch of the U.S. government, such as the location and constitutional rank, structure, and internal operation of this institution. Main theories developed to try to understand and predict the behavior of Congress as an institution and of congressmen as actors who want to maximize their chances of reelection, acquisition of power or affect public policy decision-making.

CIPO 4110– Seminar on Public Policies in Latin America

Three credits. Three hours of seminar per week. Prerequisites: CISO 3121- 3122.

Study of public policies in Latin American countries in recent years with emphasis on social or social development policies such as education, health, anti-poverty programs, social security and pensions, and housing. The seminar examines the social context and the political, ideological, and

institutional factors that influence the processes of generating and implementing public policies in countries of the region, as well as the role of regional and international organizations. It identifies implemented policies and evaluates their effectiveness and social impact in the various case studies. It is recommended for students in their third and fourth year of studies in the areas of emphasis on comparative politics and political systems and government, law and public policy.

CIPO 4115 - International Relations in Latin America and the Caribbean

Three credits. Prerequisites: CIPO 3011 and teacher's permission.

A study of the development and current state of relations between Latin American countries and Anglo-America and the Caribbean.

CIPO 4135 - Latin American Political Thought

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

The main schools of political thought that move Latin America in the twentieth century. Analysis of representative authors of the Mexican Revolution, the aprismo, Peronism, and contemporary movements such as the democratic left, Fidelism and communism, the right-wing oligarchy, and the role of the army in politics.

CIPO 4136– Game Theory in International Relations

Three credits. Three hours of lecture per week Prerequisites: CISO 3121- 3122.

We will study the use of game theory models in the theoretical elaboration and study of international relations. We'll start with an introduction to the concepts of science and game theory. The application of models to the study of economics, politics and in particular international relations will be studied. Students will analyze the concepts and propositions of the neorealist school, the neoliberal school and its aspects. For this analysis, we will use models derived from game theory as analytical tools. We will also investigate other applications such as macro strategies, institutionalization and the analysis of the distribution of power.

CIPO 4137– Gender and International Politics

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

The study of international politics tends to be gender-neutral. However, it has been observed that international processes and events have gender-differentiated causes and consequences. This course problematizes the analysis of international relations from a gender point of view. It introduces critical theoretical frameworks to existing paradigms such as realism and liberalism, allowing us to incorporate gender analysis into the study of international politics. Emphasis will be placed on gender issues within the context of international conflict, security, economic development, nationalism and globalization. It is offered for juniors and seniors.

CIPO 4138– Foreign Policy of the People's Republic of China

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

This course seeks to understand the contemporary foreign policy of the People's Republic of China through the study of the historical and ideological context. An analytical framework will be created on China's political and economic interests, military and diplomatic strategies. Special emphasis will be placed on China's relations with its regional neighbors in Asia, as well as with the United States of America and other developing countries. The course is offered for third and fourth year students of studies.

CIPO 4175 - Civil Rights in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Study of the origin, content, and evolution of civil liberties, with emphasis on the Magna Carta, the U.S. Constitution, the United Nations Universal Declaration of Human Rights, and the Constitution of Puerto Rico.

CIPO 4185 - Contemporary Political Theory – 19th and 20th Centuries

Three credits. Three hours of lecture a week.

Systematic study of political theory in the 19th and 20th centuries through the representative thinkers of the period. Face-to-face, hybrid and online course.

CIPO 4215 - International Theory

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

Study of the different theories of relations between nations, highlighting the period from the Renaissance to the present. The main traditions of thought in this field will be analysed, and a comparative rather than chronological study will be made.

CIPO 4225 - Problems of Latin America

Three credits. Prerequisite: CIPO 3011.

Critical analysis of the main political, economic, social and cultural problems of developing countries with special reference to Central America.

CIPO 4235 - North American Political Theory

Three credits. Three hours of lecture a week.

This course covers in historical order the main currents of American political thought, relating them to the main currents of European thought and to those socio-economic, geographical and political factors that give American thought its own profile.

CIPO 4238 - Latino Groups Policy in the United States

Three credits. Three hours of lecture a week.

Analysis of the role played by Latino groups in the political system of the United States of the main methodological and theoretical problems and issues that characterize the political activity of Latinos

in the United States. It includes a discussion of the formation of these groups in American society, their similarities and differences, and the factors influencing their political activity.

CIPO 4245 - British Political Parties

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Analytical study of the legal and constitutional structure and the historical and cultural background of British political parties. The internal structure and organization, as well as the philosophy and programs of the parties, are studied with special attention to the problems they confront and to the question of leadership in the modern democratic state.

CIPO 4255 - Political Systems of the New States

Three credits. Three hours of lecture a week. Prerequisites: CIPO 3011 and counselor's permission.

Study of government and politics in the new states of Africa and Asia. Particular attention will be paid to the social organization of these peoples and to the differences and associations that exist between them resulting from the social and traditional conditions, such as race, caste and tribalism, which they engender in the political system, as well as to the validity of the prevailing concepts about the political process, Western and non-Western.

CIPO 4265 - Theory of the State

Three credits. Prerequisite: CIPO 3011.

Study of the political concept of the state and its relationship with society, economy and law. Face-to-face, hybrid and online course.

CIPO 4275 - Modern World Politics

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

A realistic study of modern world politics. Power as a catalytic force defining politics between nations. Rationale of world policy; techniques and tools; geography and world politics; the problem of war and peace. Face-to-face, hybrid and online course.

CIPO 4285 - The Fascist System

Three credits. Prerequisite: CIPO 3011.

Assumptions of Fascist Ideology. Its variants. Conception of man; history and law. Vision of the social and economic problem. The fascist and Nazi political organization.

CIPO 4287 - International Political Economy

Three credits. Three hours of lecture a week.

It examines the interaction between the state and the world economy. It analyzes the exercise of state power as the main determinant of the nature of the global economic system and how, in parallel, economic processes redistribute power and wealth among actors.

CIPO 4295 - Problems in Puerto Rico's Constitutional History

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Analysis of certain problems in the constitutional history of Puerto Rico from the Treaty of Paris to the present. The course will specifically use constitutional decisions as well as other documents and writings pertinent to the topic.

CIPO 4305 - Theory of Law

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Analysis of the fundamental concepts of law in its dynamics within a society and in its relations with other spheres of human life.

CIPO 4306 - Socio-Political Research Theory

Three credits. Three hours of lecture a week.

The theoretical problems of applying the scientific method to the study of politics. Face-to-face, hybrid and online course.

CIPO 4307 - Techniques for Socio-Political Research

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

Prerequisite: CIPO 4306.

Study and practical application of research techniques for political science studies by conducting research on a specific political topic. Face-to-face, hybrid and online course.

CIPO 4325 - Marxist Thought

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

Critical examination of some of the fundamental aspects of Marxist Theory, especially analyzing the works of Karl Marx.

CIPO 4345 - Labor Movement and the Political Process in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

The course will be aimed at sociologically examining the historical development of the Puerto Rican political process from the perspective of the working class and its institutions. Important changes in the social structure of Puerto Rico since the beginning of the century and their consequences in the formation of the culture of the working class will be analyzed. The impact of this culture on the political process will be discussed together. Special attention will be given to the relationship between workerism and politics in the first fifteen years of the history of the Popular Democratic Party (1939-1954) as a key to understanding the current situation. These processes and transformations will not be isolated from those taking place in the world. They will be framed, in a general way, in the history of the development of capitalist societies, as well as in the international history of workerism.

**CIPO 4365 - Constitutional Rights in the United States Seminar:
Current Issues**

Three credits. Three hours of lecture a week.

The right to privacy, freedom of speech and of the press, the right to dissent, equality in voting, freedom from unreasonable detention, arrest and student rights, discrimination against women.

CIPO 4375 - French Political Thought 1870-1968

Three credits. Three hours of lecture a week.

An examination of French political thought from the founding of the Third Republic to the death of de Gaulle. Topics such as: Charles Maurras and L'Action Francaise, the monarchists will be discussed

and the republicans, French socialism, Christian Democracy, the Popular Front, the Third and Fourth Republics, Poujadism, Gaullism, etc.

CIPO 4385 - The Working Class in Contemporary Societies

Three credits. Three hours of lecture a week.

Classical theories about the working class will be studied and the structures and political behaviour of the working class will be analysed in the context of societies with different levels of socio-economic development and political structures.

CIPO 4405 - Anarchist Thought - Theory and Practice of Anarchism

Three credits. Three hours of lecture a week.

Study of theories of rejection of authority, political organization and all kinds of human subjection, as well as the historical evolution of the belief in the necessity of political power as an inevitable instrument of organization and control of society. Examination of the thought of some of its nineteenth-century European exponents such as Proudhon, Bakunin, Kropotkin, Malatesta, etc., and its Puerto Rican exponents at the beginning of the twentieth century (Capetillo, Cruz, Dieppa, etc.). Comparing them with the European and Latin American anarchism of the time. The Russian Revolution and the Spanish Civil War as examples of anarchism in action.

CIPO 4415 - Sociology of Puerto Rican Political Leadership 1904-1968

Three credits. Three hours of lecture a week.

Examination of leadership as a socio-political category and social reality in the Puerto Rican political process in the twentieth century. The aspects of (a) power, influence, authority, and leadership (b) leadership and elites (c) social change and leadership (d) leadership as institutionalized power will be studied, illustrating them with an in-depth study of the leaderships of the main political figures in Puerto Rico between 1904 and 1968.

CIPO 4425 - Women's Participation in the Political Process in Puerto Rico

Three credits. Three hours of lecture a week.

Analysis of the position and participation of women in the Puerto Rican political process. Examination of the situation of Puerto Rican women in the light of the fundamental changes in social and sexual patterns of this century and their effect on the political process. Face-to-face, hybrid and online course.

CIPO 4427 - Gender and Political Power

Three credits. Three hours of lecture a week.

Study of politics from a gender perspective. It examines the concrete experience of women who have risen to political power through electoral politics in England, India, Israel, Argentina and Nicaragua. The institutional politics of these countries are studied to understand how women perform in the legislature, the executive, in the administration of government and in international representation. In particular, the following are discussed: women's political representation, women's and men's leadership and governance styles; and questions how gender can mediatize the use of political power to introduce changes in public policy and in public spaces of political participation.

CIPO 4430 - Women's Political Participation in Latin America

Three credits. Three hours of lecture a week.

Gender relations and women's political and economic participation in Latin American countries have changed significantly since the Second World War. This course examines the cultural, ideological, and structural factors that have affected the lives of Latin American women since the 1950s. From a gender analysis perspective, it analyzes the forms of women's political participation, the struggles for political representation, the role of women in democratization processes, the struggles around the state and the government, and the impact of social and economic policies on women.

CIPO 4435 - Principles and Methods of Democratic Thought

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

This course attempts to examine in a systematic way the methods and philosophy of the main varieties of democratic thought, especially with regard to the relationship between theoretical and practical problems, the relationship of science and values, and the unity or diversity of social analysis and action. A variety of classical and contemporary texts will be used as study materials to illustrate the diversity of methods, principles and applications.

CIPO 4445 - Principles and Methods of Socialist Thought

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

This course attempts to examine in a systematic way the methods and philosophy of the main varieties of socialist thought, especially with regard to the relationship between theoretical and practical problems, the relationship of science and values, and the unity or diversity of social analysis and action. A variety of classical and contemporary texts will be used as study materials to illustrate the diversity of methods, principles and applications.

CIPO 4505 - Political Socialization in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: 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 the concrete study of the experience of the political socialization of the child in Puerto Rican society and culture.

CIPO 4525 - Problems and Prospects of Puerto Rican Emigration

Three credits. Three hours of lecture a week.

Study of Puerto Rican emigration to the United States, seen in the light of the social and economic conditions prevailing in Puerto Rico during the twentieth century. Analysis of the public policy of the government of Puerto Rico and the United States regarding Puerto Rican emigration.

CIPO 4565 - The Social Contract and Human Rights

Three credits. Three hours of lecture a week. Prerequisite: CIPO 3011.

This course will critically examine the political theories of Thomas Hobbes, B. Spinoza, John Locke, David Hume, J.J. Rousseau and their contemporaries. Special attention will be given to the following topics: Theories of Human Nature, the Nature of Law, Political Obligation, Law and Liberty. Theories relating to the problems of authority, sovereignty and legitimacy will also be studied. The course will indicate the influence that these theories have exerted on contemporary political thought.

CIPO 4590 - Political Relations between Puerto Rico and the United States

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

Examination of the political relations between Puerto Rico and the United States from a historical perspective, with emphasis on the factors that promote an alteration in the content of some aspects of it. Political, economic, international and cultural factors that affect the relationship will be considered. Face-to-face, hybrid and online course.

CIPO 4605 - Seminar on Special Topics

Three credits. Three hours of seminar per week. Prerequisite: CISO 3121- 3122.

Advanced seminar that examines in a systematic and detailed manner political issues of special interest pertinent to the areas of emphasis of the political science program. Professors select the special topic of study in the seminar and determine which area of emphasis corresponds. Instructional and assessment strategies focus particularly on critical thinking competencies, the ability to study independently, and the integration of knowledge. This seminar is recommended for fourth-year students or for students who have taken other courses in the relevant area of emphasis. It can be repeated up to a maximum of six credits if the topic is different.

CIPO 4615 - International Law and the Decolonization Process

Three credits. Three hours of lecture a week.

This course will set out those basic principles of public international law that have been affected and that in turn have affected the process of decolonization. The possible consequences in the field of international relations of the various methods of achieving independence through peaceful negotiation will also be analysed. Some of the central themes will be: colonialism and the principle of self-determination, the UN and the decolonization process, sovereignty and self-determination, the negotiation of the acquisition of independence in French and British practice.

CIPO 4635 - Theories of Justice

Three credits. Three hours of lecture a week. Prerequisite: Fourth-year students.

An examination of the types of theories of justice, and of their varieties, from both a historical and analytical point of view, from Plato to the present.

CIPO 4655 - Latin American Political Sociology

Three credits. Three hours of lecture a week. Prerequisite: Fourth-year students.

Description and analysis of the main political phenomena present in contemporary Latin America, observed from the social point of view.

CIPO 4685 - Puerto Rican Political Culture

Three credits. Three hours of lecture a week.

Study of the attitudes, institutions, and processes that regulate and define the nature of the political culture and functioning of the Puerto Rican political system.

CIPO 4687 - Policy of Puerto Ricans in the United States.

Three credits. Three hours of lecture per week.

Analysis of the participation and political organization of Puerto Ricans in the United States. It discusses the main theories, concepts, and issues in the study of the political reality of this group. It studies migration patterns and political relations between the island and its diaspora in the United States.

CIPO 4695 - Partisan Politics in Puerto Rico

Three credits. Three hours of lecture a week.

After a broad discussion of general theories on the nature of political parties, the Puerto Rican party system will be thoroughly studied, including its origins, relationship to the electoral process, internal organization and structure, and relationship to the legislative process, public administration, and class structure.

CIPO 4705 - Special Topics Research Seminar

Three credits. Three hours of seminar per week. CISO Prerequisite 3121-3122.

Advanced seminar in which students conduct research projects individually or in groups on particular or conjunctural topics pertinent to the areas of emphasis of the political science program. Research topics are consulted and approved by the professor. The application of theories and use of research techniques is evaluated depending on the topic under study. This research seminar is recommended for fourth-year students who have taken the core research courses and other courses in the relevant area of emphasis. It can be repeated up to a maximum of six credits if the topic is different.

CIPO 4715 - Nationalism, Colonialism and Imperialism

Three credits. Three hours of lecture a week. Prerequisite: Have passed at least one political science course.

Nationalist, colonialist and imperialist ideas, theories, experiences and behaviours. The development of the study of these phenomena based on traditional, historicist and institutionalist approaches to political thought culminated with the new contributions of psychology and political sociology.

CIPO 4725 - Seminar: Political Thought in the Caribbean

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Critical and intensive analysis of the works of some of the main exponents of political thought in the Caribbean area. (Each semester the professor, along with the students enrolled in the seminar, will select the political thinkers to be studied in the course.)

CIPO 4805– Critical Theory of the Frankfurt School

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121-CISO3122.

The critical theory of the Frankfurt School is one of the most innovative currents of thought within the

continental philosophical tradition. This course aims to fully study the theoretical-political perspective of the critical theory of society developed by the main members of the Frankfurt School. The course seeks to help students estimate the value of the contributions of critical theory of society to the social and political understanding of the present. We will study the philosophical, political, sociological contributions of four of the most important theorists of this tradition: Theodor W. Adorno, Max Horkheimer, Herbert Marcuse, and Walter Benjamin. The course is offered for undergraduate students in their third and fourth year of studies.

CIPO 4806– Modernity and Capitalism: Walter Benjamin and the Political

Three credits. Three hours of seminar per week. Prerequisites: CISO 3121-CISO 3122.

Walter Benjamin's political philosophy is one of the most important contributions to twentieth-century political thought. While rejecting the philosophical underpinnings of political and economic liberalism, it provides us with a critical approach to both capitalism and modern liberal thought. The seminar will critically analyze the relationship between capitalism and modernity through the political and philosophical thought of Walter Benjamin. This analysis will provide us with a critical conception of the relationship between capitalism and modernity seen from the perspective of the critical theory of society. The seminar is offered for fourth-year undergraduate students.

CIPO 4807– Literature, Aesthetics, and Political Theory

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121-CISO 3122.

In the literature we find meanings that go beyond what facticity gives us at the interpretative level. Although literature is produced in a specific historical context and circumstances, its meanings and the interpretative possibilities it offers us reach registers that go beyond the context of the work. Thus we find in literature a universalist inclination of meaning and its interpretation. What this means is that we can make it our own, that we can establish a dialogic communication with the work that marks our own context and concerns. In this course, these concerns are of a theoretical-political nature. Through the discussion and analysis of various literary genres (novel-short story) and some cinematographic representations of literature, we will be discussing theoretical-political issues such as justice, violence, colonialism, democracy and inequality, among others. This course is offered for third and fourth year students.

CIPO 5005 - Current Political Conflicts in the Islamic World

Three credits. Three hours of seminar per week. Prerequisites: CISO 3121 and CISO 3122 or authorization from the department director.

Seminar on critical analysis of current conflicts in the Islamic world aimed at students interested in international relations. It investigates the socio-political differences and complexity of the different current conflicts in the Islamic world. In addition to the religious factor, ethnic, political, economic and social causes are explored, as well as geostrategic and/or hegemonic causes at the regional and international levels.

CIPO 5015 - Seminar on Comparative Studies of Religion and Politics

Three credits. Three hours of seminar per week.

This seminar studies the relationship between religion and politics in various countries and regions. It will start from the analysis of theoretical debates and empirical problems related to recent experience, mainly in the United States, Latin America, Europe and Islamic countries. Religion and its institutional and organizational forms have demonstrated the ability to significantly influence political transformations globally since the mid-20th century

and in particular in the countries and regions studied by the seminar. The seminar has a comparative and international approach that is achieved by combining theoretical analysis with the study of concrete experiences. This makes it possible to make comparisons about the political space of religion in countries and regions, among them, as well as its implications in the same religions and denominations. The seminar covers topics of interest to students of political science and to students of other fields of study in the social sciences and humanities.

CIPO 5025– Political Theories of Violence

Three credits. Three hours of seminar per week. Prerequisite: CISO 3121-CISO 3122

Critical analysis of contemporary political theories of violence. It explores the dialectical dimension of violence, and outlines a theoretical-political reflection on the polarizing debates between the "necessity" of violence put forward by radical groups and proposals that emphasize the eradication of violence within a telos of peace. It explores the main theme through the critical analysis of political theorists ranging from modernity (Robespierre, Machiavelli, Hobbes) to contemporary political and social thinkers (Hannah Arendt, J.P. Sartre, S. Zizek, H. Marcuse, G. Sorel, J. Derrida, S. Freud). It is aimed at advanced undergraduate students and graduate students from related disciplines.

CISO 3001 - The Civilization of Modern Western Europe

Three credits. Three hours of lecture a week.

The course aims to help the student understand the conditions and problems of contemporary Europe. In a historical perspective, the fundamental aspects of intellectual, political, social and economic development are analysed with special attention to Europe in the 19th and 20th centuries. Supplemental original material with additional literature from secondary sources will be used for class discussions.

CISO 3002 - The Civilization of Modern Western Europe

Three credits. Three hours of lecture a week. Prerequisite: CISO 3001.

The course aims to help the student understand the conditions and problems of contemporary Europe. In a historical perspective, the fundamental aspects of intellectual, political, social and economic development are analysed, with special attention to Europe in the nineteenth and twentieth centuries. Supplemental original material with additional literature from secondary sources will be used for class discussions.

CISO 3007 - Introduction to Demographics

Three credits. Three hours of lecture a week.

Introduction to the field of demography. Emphasis will be placed on the study of population growth and distribution at the global and regional levels; future growth trends; determinants of

population growth and distribution (birth, mortality, and migration); possible political, economic, social, and environmental implications of present and future trends in population growth and composition; migration and birth control policies; effectiveness of these controls; etc.

CISO 3011 - Social Issues in Puerto Rico

Three credits. Three hours of discussion a week. Prerequisites: CISO 3121-3122.

Interdisciplinary and critical study of contemporary society and its most serious problematic aspects with a particular focus on Puerto Rican social problems such as: crime, juvenile delinquency, violence against women and minors, old age and homelessness, schooling and unschooling, housing, population problems, discrimination and racism, inequality and marginalization, mental disorders, drug addiction, alcoholism, prostitution, family disorganization, among others.

CISO 3025 - El Campesino in Latin America

Prerequisites. Three hours of lecture a week. Prerequisites: CISO 3121,3122.

The study of food production and agricultural strategies developed by the Latin American peasant. Examination of cultural, economic, and political responses to changes resulting from agricultural industrialization, succession of agrarian reforms and subsequent displacements, claims to land and resources by local populations as well as indigenous sectors, rural-urban migration, and environmental destruction. Individual cases will be examined on a country-by-country basis.

CISO 3045 - The Civilization of Modern Russia

Three credits. Three hours of lecture a week. Prerequisite: Be a third- or fourth-year student.

This course studies the main features of Russia's socio-political development from the 19th century to the present. Adequate attention will be given to the political, economic, social and intellectual aspects of this period. The Soviet Union and its relations in the communist world will be studied.

CISO 3055 - The Civilization of Modern Russia

Three credits. Three hours of lecture a week. Prerequisite: Be a third- or fourth-year student.

This course studies the main features of Russia's socio-political development from the 19th century to the present. Adequate attention will be given to the political, economic, social and intellectual aspects of this period. The Soviet Union and its relations with the communist world will be studied.

CISO 3056 - The Dimensions and Social Impacts of Technology

Three credits. Three hours of lecture a week. Prerequisite: For juniors and seniors.

Study of the historical and social processes that have conditioned the development of technology and its impact on society, work, education and culture.

CISO 3057 - 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 study on the cultural and social history of contemporary societies and cultures in the continental countries that make up Latin America. Conference and discussion focused on the study of contemporary issues such as urban growth, agricultural and livestock industrialization, the impact on the ecological systems and resources of the region, ethnic diversity and identity, studies of population movements and migrations, religious diversity, cultural and social relations around gender and the variability of economic and political practices of the different communities in the countries of the region. The topics of discussion incorporate the comparative examination of cases and countries.

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CISO 3065 - Indigenous and Colonial Ethnohistory of Puerto Rico

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, 3122.

Interdisciplinary approach to the study of historical, archaeological, ethnological, and cultural factors in the early formation of Puerto Rican society. The discussion emphasizes the various and distinctive cultural and social modes of pre-Hispanic indigenous societies and the cultural, political, and economic dynamics in social life in the colonial period between the 16th and early 19th centuries; This includes slavery, ethnic and religious mixing, linguistic variability, population movements, settlements, and social exchanges on and off the island and in the Caribbean region.

CISO 3086 - Society and Cultures in Puerto Rico

Three credits. Three hours of lecture a week. Credit will be given at the end of the 2nd semester. Prerequisite: CISO 3085.

Interdisciplinary approach to the study of Puerto Rican society, paying particular attention to the social and cultural processes of the late 19th century and their development during the 20th century to the present day. It will examine the cultural and historical changes and transformations that have occurred as a result of economic development strategies, migration, urbanization and urban sprawl, ways of daily life, religion, literature and the arts, identity, language, the role of women, and the political and social initiatives of social movements, including the environment.

CISO 3095 - Seminar: Patterns of Philippine Development

Three credits. Three hours of lecture a week.

This course covers the socio-historical development of the Philippine islands from the pre-Spanish period to the present time; it pays particular attention to periods of political dependency under Spain and the United States and compares the relations of the Philippine islands with those of Puerto Rico under both regimes.

CISO 3101 - The Modern Transformation of East Asia

Three credits. Three hours of lecture a week.

This course considers some dimensions of the region's experience with respect to its contacts in the West. It analyzes the Western impact on traditional civilization in different areas, emphasizing the multiplicity of responses and adjustments of East Asians in their confrontation with Westerners.

CISO 3102 - The Modern Transformation of East Asia

Three credits. Three hours of lecture per week Prerequisite: CISO 3101.

This course considers some dimensions of the region's experience with respect to its contacts in the West. It analyzes the Western impact on traditional civilization in different areas, emphasizing the multiplicity of responses and adjustments of East Asians in their confrontation with Westerners.

CISO 3111 - Civilization of the United States

Three credits. Three hours of lecture a week. Prerequisite: Teacher's approval or baccalaureate.

In historical perspective, the course looks at the structure and norms of society and its political economy and with some of the difficult and persistent problems of the United States. Subjects from various social sciences are integrated with works of literature and politics.

CISO 3112 - Civilization of the United States

Three credits. Three hours of lecture a week. Prerequisite: Teacher's approval or baccalaureate.

In historical perspective, the course looks at the structure and norms of society and its political economy and with some of the difficult and persistent problems of the United States. Subjects from various social sciences are integrated with works of literature and politics.

CISO 3146 - Ethnohistory of Indigenous Antiquities and Colonial Cultures in Latin America

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: CISO-3121 and CISO-3122.

Interdisciplinary approach to the study of historical, archaeological, ethnological and cultural factors in the early formation of Ibero-American societies. Emphasis on paleodemography and settlement on the continent, the different cultural, economic and socio-political modes of pre-Hispanic indigenous societies and the cultural, political and economic dynamics in colonial ways of life that began in the sixteenth century with the conquest and colonization, this includes exchanges with Indian societies, slavery, ethnic mixing, the mixture of religiosities, linguistic variability, the distribution and use of land, population movements, the development of colonial towns and urban centres, and economic and social exchanges between colonies and with the metropolis.

CISO 3155 - FUNDAMENTALS OF STATISTICAL REASONING

Three credits. Three hours of lecture a week. Prerequisite: MATE 3105.

Reasoning, computation and limitations of elementary statistics applied to the social sciences. It includes, but is not limited to, frequency distributions, measures of central tendency, variability, relative position, correlation and simple regression, basic notions of inferential statistics, and design.

Face-to-face, hybrid and online course.

CISO 3157 - 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 linguistic study of the relationship between language, linguistic variability, culture and identity among the different communities of speakers that exist in Puerto Rico. Emphasis on the study of the different cultural practices that construct and signify linguistic interaction in and between different groups. It examines cultural and linguistic change as a consequence of the processes of literacy and schooling, industrialization and urbanism, and the massification and commodification of the media. Other factors of cultural influence on the language will also be studied, such as language planning and the language issue around Spanish and English, the influence of music, literature, electronic games, television and mobile communication and the internet. Finally, the course also incorporates the linguistic experience of Caribbean immigration to Puerto Rico, including return migration and movement of ethnic Puerto Ricans born and raised in the United States.

CISO 3185 - SYSTEMS THEORY IN THE SOCIAL SCIENCES

Three credits. Three hours of discussion a week. Prerequisite: Third- and fourth-year students.

Study of modern systems theory, considered as a research tool in the social sciences. Concrete examples will be given to show the application of this new approach to the study of specific social problems.

CISO 3186 - Societies and Cultures in the Contemporary Caribbean

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, 3122.

Interdisciplinary study that emphasizes the historical, cultural and economic approach to the development of present societies and cultural diversity in the Antillean countries and in the Caribbean basin. Study of the processes of cultural and social formation resulting from colonial systems, the economic and cultural system of plantation and slavery, the development of agro-export capitalism in the nineteenth century, and immigration and imports of labor to the region. Study of economic and political development strategies, the processes of independence or reformulation of the relationship between colony and metropolis, the movements and circularity of migratory flows, the manifestations of identity and ethnic and linguistic representativeness, and the cultural changes that constitute part of these Caribbean processes. Particular emphasis on the English- and French-speaking Caribbean.

CISO 3195 - Social Science Methodology

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, 3122,

CISO 4007 (students in the area of study of social research emphasis, methods and techniques).

Critical examination of the theoretical and philosophical principles that underpin the constitution of the different social sciences. Study of the problems of methodology, data collection techniques, analysis and interpretation posed by the different approaches to the design and definition of the problem of research in the social sciences. Lectures and practical workshops that include the design and writing of a research proposal, with particular emphasis on the design of a methodology that includes the selection of variables and the design of hypotheses.

CISO 3200 - Writing and Style in the Social Sciences

Three credits. Three hours of lecture a week. Prerequisite: CISO 3122.

Comprehension of reading bibliographic material in the social sciences, use of scientific journals in the fields, preparation of notes, essays, articles and monographs through the use of statistical data, archival documentation and qualitative data.

CISO 3205 - Social Research Techniques

Three credits. Three hours of lecture a week.

Critical examination of logical, conceptual, and technical problems involved in the design of various types of social research.

CISO 3215 - Poverty in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, 3122.

Interdisciplinary study focused on the historical analysis of poverty and its current state. The study of cultural, social and economic structural causes and their effects. It will also study government initiatives on social policy and the welfare state, as well as cultural aspects related to the daily life of living in poverty in Puerto Rico.

CISO 4001 - Qualitative Methods and Techniques in the Social Sciences

Three credits. Three hours of discussion a week. Prerequisite: CISO 3121 and 3122.

Development and training in scientific research through the learning of methods and techniques for the social sciences. Ethnography and its techniques of observation, participatory observation, ethnographic maps, ethnophotography and ethnographic interviews will be studied. In addition, the techniques of work and use of archives, genealogical blocks, free association, focus groups and interviews aimed at oral history will be studied.

CISO 4005 - Socialism in Contemporary Spanish History

Three credits. Three hours of lecture a week.

Various currents in Spanish socialism and their influences on Spanish society.

CISO 4007 - Bibliographic Research and the Management of Documentary Sources in the Social Sciences

Three credits. One hour of lecture, one hour of workshop and one hour of research per week. Prerequisites: CISO 3121-3122.

Introduction to the principles of bibliographic research and to the location of documents and primary data sources. Cataloguing and bibliographic indexes of collections, documents, periodicals, maps, references and scientific and academic journals. Search and use of abstracts of academic journals in the social sciences. Search and compilation of bibliographic information, including the Internet, of primary sources of quantitative and qualitative data. Documents, archives, and data search in non-library systems such as databases, information, and governmental and non-governmental reports in Puerto Rico and abroad.

CISO 4011 - Data Analysis in Social Research

Three credits. Three hours of lecture a week.

An experiential course aimed at students acquiring a comprehensive understanding of social research methods and quantitative analysis. Applied research will be emphasized so that students master the descriptive and inferential aspects of statistics and the practical and theoretical problems of social research.

CISO 4012 Data Analysis in Social Research

Three credits. Three hours of lecture a week. Prerequisite: CISO 4011.

An experiential course aimed at students acquiring a comprehensive understanding of social research methods and quantitative analysis. Applied research will be emphasized so that students master the descriptive and inferential aspects of statistics and the practical and theoretical problems of social research.

CISO 4025 - Social Impact of Black Slavery in Puerto Rico

Three credits. Three hours of lecture a week.

Study of collective movements in Puerto Rico and their importance in contemporary society.

CISO 4035 - Issues of Independence in the Contemporary Caribbean

Three credits. Three hours of lecture a week.

The problems of the phenomenon of Caribbean independence will be discussed. From the methods used in the anti-colonialist struggle from the time of the war of national liberation, in the case of Haiti in the nineteenth century, to the time of the Cuban revolution in the twentieth century; the general character of the newly independent nations, especially in the English-speaking Caribbean; and the social, cultural, economic and political problems in them.

CISO 4045 - The United States and the Caribbean

Three credits. Three hours of lecture a week. Prerequisite: CISO 3045.

History and the basic nature of relations between the United States and the Caribbean region, beginning historically in the late eighteenth century through modern times. Its greatest concentration will be the period after the Spanish-American War of 1898. The following topics are included: the development of the Pan-American idea, the Monroe Doctrine, the cardinal ideas of "Manifest Destiny." It analyzes the foreign policy of the United States regarding the Caribbean, the various forms of intervention in the Caribbean made by the United States in the area. It concludes with an analysis of the Caribbean community in the face of the problems thus made, including the development of various forms of regionalist cooperation in the 1960s and 1970s.

CISO 4046 - Experimental Design and Analysis of Variance

Three credits. Three hours of lecture a week. Prerequisite: CISO 3155; CISO 4042.

Discussion of experimental designs and relevant analysis of variance.

CISO 4047 - Applied Correlation and Regression in the Social Sciences

Three credits. Three hours of lecture a week. Prerequisite: CISO 4041 and CISO 4042 or equivalent are taught correlation estimation and regression and their application to research.

CISO 4048 - Statistics for the Social Sciences

Three credits. Three hours of lecture a week. Prerequisites: MATE 3105, CISO 3155.

Introduction to statistical inference. Sample distributions, emphasis on estimation and significance tests, methods for comparing two groups, measures of association for categorical variables, and nonparametric methods. This course replaces CISO 4042. Face-to-face, hybrid and online course.

CISO 4055 - Contemporary Society of Puerto Rico

Three credits. Three hours of lecture a week.

Study and analysis of the contemporary culture of Puerto Rico and of recent theoretical changes, in terms of the ecological adaptation to the local geographical environment of historically derived patterns. Analysis of the lifestyles of certain numerically important segments and classes of the Puerto Rican population. Consideration of the recent transformations of Puerto Rican society and culture under the impact of individualization.

CISO 4065 - Contemporary Britain: Race, Social Class and Politics

Three credits. Three hours of discussion a week.

This course will concentrate on Britain with a cultural-political nuance with special emphasis on the relations between social class, race and politics. The interplay of these general phenomena will be studied, with emphasis on the post-1945 era, characterised by the growth of the modern welfare state and the introduction of race and colour as components of British life. This course will be interdisciplinary in type with readings from most of the modern social sciences.

CISO 4075 - The United States and Caribbean Area

Three credits. Three hours of lecture a week.

The first part of the course provides a historical outline of diplomatic relations, historical and cultural relations between the United States and the countries of the Caribbean area, including the West Indies, Central America, Colombia and Venezuela. This will be followed by a study of contemporary relations and conditions.

CISO 4085 - The Catholic Church and Protestant Churches in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: Teacher's consent.

Sociopolitical study of these social institutions in the historical framework of the transformations of Puerto Rico since the invasion of the United States in 1898 and during the period of the depression of the 1930s, the development of populism from 1940 onwards and its crisis in the 1980s.

CISO 4095 - Modern Totalitarianism

Three credits. Three hours of discussion a week. Prerequisite: For juniors and seniors.

Study of the origins, development, ideologies and characteristics of modern totalitarian movements. In the course you will study, especially Italian fascism, German Nazism and Soviet communism. In contrast, the Franco regime in Spain will also be discussed.

CISO 4105 - Popular Movements in Latin America and the Caribbean

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121 and CISO 3122.

Interdisciplinary, comparative and critical analysis of the economic, political and cultural factors of different popular and social movements in the regions of Latin America and the Caribbean, also considering their particularities and historical contexts. Focus on the particular and selective study of a sample of popular movements in the region, which includes analysis of their historical roots, their demographic, geographical, cultural, ethnicity, linguistic, gender and social class variability, their economic demands, their political organization and the result and consequence of their management.

CISO 4115 - Issues and Perspectives in Latin America and the Caribbean

Three credits. Three hours of discussion a week. Prerequisites: CISO 3121 and CISO 3122.

Historical and social elements common to the regional economic, political and cultural development of Latin America and the Caribbean. The course provides for an analysis of the problems of poverty and inequity in the distribution of wealth, including income, land and sustainability resources, employment patterns, unemployment and underemployment, addiction, social and political violence, schooling and accessibility to education, urban breakdown, migration trends, gender inequalities, discrimination and ethnic and linguistic identities and political and social representation. The course provides for the comparative selection of case studies.

CISO 4125 - Social Institutions in the Caribbean Area of French Culture

Three credits. Three hours of lecture a week.

Study and analysis of social institutions (social stratification, family, economy, politics, and religion) in the areas of the Caribbean under French influence, with particular emphasis on Haiti, but with reference to Louisiana, Martinique, Guadeloupe, and French Guiana.

CISO 4135 - Theory Construction in the Social Sciences

Three credits. Three hours of lecture a week.

A summary of the common elements of the theories; the function of theory. Some illustrations of articulated theories (e.g., Anthony Downs, George Kelly). Some practice in constructing theories based on simple premises.

CISO 4145 - Contemporary Spanish Society

Three credits. Three hours of lecture a week.

Panoramic view of the social organization and interaction patterns of the total set of institutions that make up the Spanish system. The reality of the Spanish system will be shown through discussions of the fundamental changes that took place in Spanish society during the 20th century.

CISO 4155 - The Church as a Socio-Political Factor in Latin America

Three credits. Three hours of discussion a week. Prerequisite: after consultation with the counsellor.

Study of the social and political function of this social institution in the stages of development of Latin America from the period of independence to the present day.

CISO 4165 - Sociology of Puerto Rican Literature

Three credits. Three hours of lecture a week. Prerequisite: SOCI 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 schemes of conceptualization. Sociological analysis of selected aspects of Puerto Rican literature.

CISO 4166 - Women in Contemporary Puerto Rico

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

Analysis of the most prominent areas, themes and debates in the changes in women's social participation, their relationship with the development of feminism and women's studies in contemporary Puerto Rico.

CISO 4175 - Colonialism and its Social and Psychological Impact

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Analysis of the main theories that have been developed around colonized society. Elaboration of schemes and hypotheses that lay the foundations for the intensive study of two of these societies.

CISO 4185 - Society and Culture of Japan

Three credits. Three hours of lecture a week.

The purpose of this course is to provide an overview of modern Japan by studying the most important contributions of different disciplines to Japanese society and culture. Topics will include the major Western and Asian traditions in the cultural evolution of this 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 an emphasis on significant developments in the arts, religion, and social organization and the contemporary state of these in Japan.

CISO 4195 - Chinese Civilization

Three credits. Three hours of lecture a week.

It will explore major trends in the development of Chinese civilization from the earliest times to the present. It will include a consideration of: 1) the evolution of traditional patterns of political, economic, social, and religious organization, 2) the process of revolutionary institutional change in modern China up to the communist period. It will also deal with the

The relationship between tradition and change in contemporary Chinese society and the functions of these in politics, economics, the ideological system, community and kinship institutions, as well as in the structures of the personality of the Chinese as an individual. CISO 4205 - Historical, Cultural and Development Studies in Contemporary Africa.

Three credits. Three hours of discussion a week. Prerequisite: CISO 3121-3122.

Interdisciplinary study aimed at developing a sequence of study area of emphasis on Africa. Lectures, discussions, and bibliographic studies emphasize cultural-historical analysis of political and economic of societies, cultures and states in the modern African world, to the north and also south of the Sahara. The study bibliography includes the historical, economic and cultural processes that began with the repartition and colonial development of Africa since 1870, the colonial political and cultural systems of the first half of the twentieth century, and the struggles and processes of independence in the post-war period. It also examines the conditions and problems of economic development, wealth production and distribution, poverty, population growth, political and governmental problems, conflicts and violence of ethnic, cultural and religious multiplicity, social relations between genders, and health problems, and in particular epidemic diseases such as AIDS, among others. Comparative case study.

CISO 4215 - The Chinese Revolution

Three credits. Three hours of lecture a week.

An analysis of the modern revolution in China that includes a consideration of its historical origins and an examination of the dynamics of change and reconstruction in Chinese society under the communist system. Emphasis will be placed on the interrelationships of the ideological, socio-political, economic and psychological aspects of the change that has taken place in society.

CISO 4225 - The Civilization of India and Pakistan

Three credits. Three hours of lecture a week.

Interdisciplinary study of the Indian subcontinent with emphasis on the structure of social institutions, e.g., family, caste and economy; changes in Indian social, economic and political institutions brought about by British rule, as well as the rise of nationalism that culminated in the independence and partition of India and Pakistan.

CISO 4235 - Colonialism in Vietnam

Three credits. Three hours of lecture a week.

Impact of the presence of France and America on Vietnam's national development.

CISO 4241 - British Civic Culture

Three credits. Three hours of lecture a week.

The basic nature and historical functions of British politics in the present will be discussed. The course will be organized using the method of comparative analysis; that is, a comparative examination will be made when necessary between the political institutions, British and the United States, but especially in Puerto Rico. Emphasis will be placed on the study of the British branches of government, i.e., the executive, legislative, and judicial.

CISO 4242 - British Civic Culture

Three credits. Three hours of lecture a week. Prerequisite: CISO 4241.

Course concentrating on the specific field of British political parties, British political style, forms of political leadership and problems of political ideology. Problems of political organisation and the political and cultural relations of British life as a whole will also be discussed. It will also include a discussion of new problems such as the development of independence movements in Wales and Scotland and the new problem of racism in general politics.

CISO 4255 - Contemporary French Civilization

Three credits. Three hours of lecture a week.

Analysis of Contemporary French Civilization. Social, economic and political aspects will be discussed, as well as French thought and lifestyle.

CISO 4275 - Puerto Rican Social Issues in National Literature

Three credits. Three hours of lecture a week. Prerequisite: CISO 3011 and 3012.

To trace the social problems that appear in Puerto Rican literature, cultured and popular, since the mid-nineteenth century, and the vision that writers have had of them, in contrast to the reality of each era.

CISO 4276 - Betances Nationalism in the Formation of Nineteenth-Century Puerto Rican Society

Three credits. Three hours of seminar per week.

Examination of the socioeconomic, political, and cultural conditions of Puerto Rico during the nineteenth century and their impact on the formation of Puerto Rican nationality, through the study of the life and work of Dr. Ramón Emeterio Betances.

CISO 4277 - History of Social Sciences in Puerto Rico

Three credits. Three hours of lecture a week.

Study of the historical trajectory of the social sciences in Puerto Rico, examining the fundamental questions that have been formulated about our society, as well as the different interpretative paradigms, analytical approaches, and research methods developed in response to such questions.

CISO 4285 - The National Revolution Movements in Asia

Three credits. Three hours of lecture a week.

Comparative analysis of movements against Western imperialism in South Asia, including India and Indonesia.

CISO 4295 - Internal Colonialism in Great Britain: Wales, Scotland and Northern Ireland

Three credits. Three hours of lecture a week.

Analysis of Recent Movements of the Post-War Era Fighting for Self-Determination or independence in the United Kingdom: Scotland, Wales and Northern Ireland. The social class basis of the movements, the role of religion (especially in Ireland), language (in Wales especially), the political parties involved in the separatist phenomenon, and the implications for English politics.

CISO 4305 - The Social and Psychological Impact of Puerto Rican Emigration

Four credits. Six hours of lecture per week.

Historical analysis of the Puerto Rican emigration movement, its main demographic characteristics and its relationship with economic and political processes. Study of the impact of the emigration experience on Puerto Ricans who remain outside the country, those who return, and the stationary agricultural worker. The course also includes an examination of the effect of emigration on the social structure of Puerto Rico and field experiences.

CISO 4306 - The Puerto Rican Experience in the United States

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: CISO 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.

CISO 4315 - Conflict in the Middle East

Three credits. Three hours of lecture a week.

Analysis of the different dominant groups in conflict, the revolutionary sectors and the great powers in the Middle East.

CISO 4325 - Nationalism in Puerto Rico

Three credits. Three hours of lecture a week.

Study of the development and manifestations of nationalism in Puerto Rico (1800-1950). It includes the analysis of the factors that contribute to the rise of nationalism and its concrete expressions both under the Spanish period and under the period of North American domination. It also analyzes the role of the Puerto Rican nationalist party and the figure of Pedro Albizu Campos as an exponent of Puerto Rican nationalism.

CISO 4335 - University and Society in Puerto Rico

Three credits. Three hours of lecture a week.

Historical analysis of the social function of the university in Puerto Rico and its relations with other social institutions, particularly the political system, the economic system, and the social class system. Examination of the university social structure and conflicting ideologies and their impact on university goals and intellectual development. The course also includes the study of the roles of professors and administrators, the scientific and literary activity of professors, and the attitudes of graduates.

CISO 4337 - Nationalism in Latin America and the Caribbean

Three credits.

Analysis of the processes of formation of nationalist ideologies and movements in Latin America and the Caribbean.

CISO 4341 - History and Philosophy of Social Thought

Three credits. Three hours of lecture a week.

It aims to place economics, sociology, anthropology, psychology and political science and geography, as well as the disciplines of planning, public administration, social work and labour relations, within its historical and philosophical framework.

CISO 4345 - Nations and Nationalism

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

Analysis of the origin and development of nationalist ideologies and movements in the contemporary world. An account of sociological theories on nationalism and the nation. Nationalism will be mapped in different eras and regions of the world.

CISO 4375 - Seminar on Colonialism

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, 3122.

Critical examination of the rich theoretical and philosophical debates around the historical, cultural, political and economic consequences of Western colonialism, the processes of decolonization and the ideological and cultural significance of different resources such as Orientalism, Afrocentrism and Eurocentrism. The discussion includes a critical examination of so-called cultural studies and the importance of postcolonial theory. Review of case studies.
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CISO 4381 - Seminar: The Human Consequences of the Social Sciences

Three credits. Three hours of lecture a week.

A research seminar on the consequences of the social sciences for the social system, the community, and personal life, with emphasis on their effects on the worldview in Puerto Rico.

CISO 4405 - Contemporary Germany: Critical Thinking and Society

Three credits. Three hours of lecture a week.

Starting from the study of the historical circumstances of twentieth-century Germany, we will study a series of authors who have developed a keen interpretative and critical vision of contemporary society. Particular focus will be on the so-called Frankfurt School this year. The class will consist mainly of reading and discussing texts.

CISO 4425 - Mass Communication

Three credits. Three hours of lecture a week.

Analysis of the mass media of industrial society: press, radio, cinema, television, popular novels, comic strips, records, etc. The dynamics of these media and their function within the general social context will be studied.

CISO 4435 - Community & Society

Three credits. Three hours of lecture a week.

An attempt is being made to see if Ferdinand Tonnies' scheme that distinguishes between community and association is applicable to Puerto Rico. The seminar will also address the problem of the corresponding psychological types.

CISO 4445 - Seminar: Social Change Thinkers in Latin America

Three credits. Three hours of lecture a week. Prerequisite: CISO 3071 or 3072, teacher's permission.

A Study of the Ideas of Three Latin American Revolutionaries, Their Philosophies of Social Change y the impact of his ideas on contemporary New World society.

CISO 4450 - Central American Studies Seminar

Three credits. Three hours of lecture a week.

Interdisciplinary analysis of the situation in Central America since the Second World War (1945). The region will be analysed from an economic, political, social and cultural perspective.

CISO 4455 - Seminar: Promoters of Social Change in the Caribbean

Three credits. Three hours of lecture a week. Prerequisite: CISO 3061 or 3062 and faculty permission.

Study of the ideas of three revolutionaries of the Caribbean, formed from the colonial experiences of the English, Dutch and French. They will be studied on the basis of his writings and the impact on contemporary society.

CISO 4465 - Seminar: Race Relations in Puerto Rico

Three credits. Three hours of lecture a week.

Analysis of the ethnic-racial relations that currently prevail in Puerto Rican society, particularly the various expressions of ethnic-racial prejudice and discriminatory practices that affect black Puerto Ricans and other oppressed ethnic-racial groups. The historical roots of ethnic-racial-colonial oppression, its legacy, its influence on interpersonal relations will be examined; as well as public and private policy on racial prejudice and discrimination. In addition, various contributions of black Puerto Ricans to our cultural substratum will be studied; and alternatives for transforming the socio-economic and political conditions in which racism and ethnocentrism are based. The seminar includes: a research exercise, lectures-dialogues and field experiences.

CISO 4475 - Seminar: The Indigenous Origins of Puerto Rican Culture

Three credits. Three hours of lecture a week.

Study of existing primary and documentary sources on the pre-Columbian cultures of Puerto Rico and nearby areas from a fundamentally anthropological perspective; to specify the social processes and the character of the cultural dynamics of these societies. The study will be complemented with the intensive use of archaeological, ethnographic and linguistic sources that allow a comprehensive approach to the subject.

CISO 4481 - Seminar: Problems in Modern Puerto Rico Society

Three credits. Three hours of lecture a week. Maximum of six credits in a variety of subjects.

Particular problems in the areas of Puerto Rico's social, economic and political institutions will be selected for study and research. Existing material in the field of research will be used as well as other sources of information that are relevant and available. There will be lectures, reading discussions in the field of research, and reports based on new questions.

CISO 4495 - Seminar: Investigating Puerto Rico Problems

Three credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: Teacher's permission.

Students will assist the seminar director in researching the problem selected for study. They will analyze other studies of the problem, collect data, and cooperate in the preparation of research briefs and reports.

CISO 4505 - Seminar: Modern Imperialism

Three credits. Three hours of lecture a week.

Examination, through readings selected and reported by the students, of the various aspects and problems relating to expansion beyond the national boundaries of the Western powers, starting from the resurgence of imperialism in the latter part of the nineteenth century to the disintegration and transformation of the existing imperialist structures in the modern world. Special attention will be given to the study of colonialism in the West Indies.

CISO 4515 - Symbols and Communication

Three credits. Three hours of lecture a week. Prerequisite: For juniors and seniors.

Integrated course in social sciences on the psychology of the creation and use of signs and symbols in animal and human communication, the role of symbolic representation in human culture, public and private symbols, and on symbolization in structures of social function and authority and in the formation of values and transmission of knowledge. Each aspect will be discussed from the various points of view of psychologists, anthropologists, sociologists and philosophers.

CISO 4521 - Caribbean Seminar and Study Tour

Three credits. Twenty hours of lecture and 15 hours of laboratory per week. Prerequisite: Any course on the Caribbean.

A comparative study of the social, economic, and political problems of three Caribbean islands: one English-speaking, one Spanish-speaking, and one French/Dutch-speaking.

CISO 4522 - Caribbean Seminar and Study Tour

Three credits. Twenty hours of lecture and 15 hours of laboratory per week. Prerequisite: CISO 4521.

Seminar and study trip to the contemporary communities analysed in the course social sciences 4521.

CISO 4535 - Seminar: Mass Communication in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: CISO 4425.

Research on some aspects of the mass media: press, radio, film, television, etc., in Puerto Rico and its function within Puerto Rican society.

~~CISO~~ - Seminar: Social Sciences, Social Thought and Revolutionary Change

Three credits. Three hours of lecture a week.

A study of current approaches to the problems of rapid social change and revolution, as expressed in both popular and social science literature. It will examine theoretical and ideological explanations of the origins of conflict in contemporary societies and discuss the problem of the dual role of the social scientist as interpreter and participant in processes related to accelerated social change.

CISO 4555 - Research Seminar: Transculturation in the Beginnings of the Colonization of Puerto Rico

Three credits. Three hours of lecture a week.

The objective of the course will revolve around the analysis of the acculturation process in Puerto Rico at the time of the conquest (1508-1560). Particular emphasis on the institutions, behaviors, ideas, and social processes of Spain at the time; Reference to the institutions and realities of Antillean aboriginal societies.

CISO 4565 - Seminar: Societies and Cultures in North Africa and the Sagel Region

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, 3122.

Approach aimed at developing the sequence of interdisciplinary study and area of study of emphasis on Africa. Lectures, discussions, and bibliographic studies on the main historical, cultural, ethnodemographic, geographical, and political-economic aspects associated with the region. The study will focus on the topics in which they excel; the ethnic-linguistic multiplicity, religious variability (e.g., Islam, Christianity, polytheistic religions, animatist practices), family traditions and kinship relations, political struggles and conflicts, and the various economic activities that characterize the North African Maghreb Egypt, Libya, Tunisia, Algeria and Morocco and the Sagel region comprising the Sudan, Chad, Niger, northern Nigeria, and a large part of the Zaharan territory of Mali, Mauritania and the territory of Saharawi (Western Sahara).

CISO 4585 - Puerto Rico and the Caribbean

Three credits. Three hours of lecture a week.

The purpose of this course is to offer the student a historical and sociological view of the diverse cultures of the Caribbean, paying special attention to Puerto Rico's peculiar position in this area. The course will also include lectures and class discussions, excursions aimed at familiarizing the student with the various Puerto Rican institutions. These institutions are compared and contrasted with those existing in other Caribbean islands.

CISO 4587 - Seminar: Theory and Collection of Puerto Rican Folklore

Three credits. Three hours of lecture a week.

In this course, the student will be trained to design, prepare, test and use the working instrument for the collection of Puerto Rican folklore. In addition, you will be taught the correct folkloric transcription procedure.

CISO 4590 - Seminar: Cultures and Religiosities in the Caribbean

Three credits. Three hours of seminar per week. Prerequisites: CISO 3121 and CISO 3122.

Historical, cultural and interdisciplinary analysis of the various forms, practices and cultural expressions of religion in Caribbean societies. It will study the belief systems, practices and cultural variants resulting from the colonial historical process associated with Christianity (e.g., Catholicism and Protestant variants, in addition to popular religiosity), Afro-Caribbean religiosities (e.g., voodoo, Santeria, Rastafari), Islam, Hinduism and Chinese Buddhism, and will also include the ethnohistorical and archaeological study of pre-Hispanic religious practices in the Caribbean and their insertion and accommodation to religiosities Contemporary.

CISO 4595 - Youth and Society in Puerto Rico

Three credits. Three hours of lecture a week.

Analysis of youth in historical and theoretical terms. Existing research and opinions on some controversial aspects of juvenile behaviour will be presented; paying particular attention to the Puerto Rican experience.

CISO 4605 - Role and Social Development of Music in Puerto Rico and the Caribbean

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Analysis of Puerto Rican history and society through diverse musical expressions. Social, economic, political and cultural factors will be analysed as elements in the formation of certain musicians and musicians and using the data provided by newspapers and primary documents such as minutes of the cabildo, notarial protocols, military reports, police reports, etc.

CISO 4615 - Seminar: Race, Class, and Politics in the Southern Cone of Africa and the Caribbean

Three credits. Three hours of lecture a week.

Comparative and interdisciplinary analysis of contemporary conflict situations in the southern cone of Africa and the Caribbean basin.

CISO 4625 - Seminar: Societies and Cultures in the Southern Cone of Africa

Three credits. Three hours of seminar per week. Prerequisites: CISO 3121 and CISO 3122.

Interdisciplinary study on the historical, cultural, socio-economic and political formation of the countries and peoples that make up the Southern Cone region of Africa and the archipelagos in the Indian Ocean. Emphasis on the study of ethnicity, gender, linguistic variability, and religiosities of peoples in the region, diversity in their economic activities, and processes of integration or marginalization as a consequence of the apartheid system and experiences in the postcolonial period, which includes civil wars. Case studies

may include: Angola, Botswana, Comoros, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, South Africa, Swasiland, Zambia and Zimbabwe.

CISO 4626 - Study Trip to the Southern Cone of Africa

Four credits. Four hours of seminar, four hours of group discussion and 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.

CISO 4627 - Interdisciplinary Practices in the Social Sciences.

Three credits. Prerequisite: 60 credits or more passed and minimum grade point average 2.50.

Undergraduate students from all faculty departments will be offered the opportunity to develop professional skills and engage in the job market in their discipline of study through an elective course. It is a way of integrating a practical experience into the study from early stages in the student's career. Practical experience in an organization exposes the student to the administrative dynamics of the real world of work and enables him to apply his knowledge to social work. At the same time, it allows you to build social capital a their contribution to public or non-governmental organizations.

CISO 5005 - Women: Research at www I

Three credits. One hour of seminar, one hour of workshop and one hour of research a week.

Research course on women in the labour market in today's world using computerized databases accessible through the internet. This course can be repeated up to a maximum of three times (nine credits).

CISO 5006 - Women's Seminar: Research at www II.

Three credits. It can be repeated with credit up to a maximum of 9 credits.

Research course on the World Wide Web on women in the historical development of their incorporation into the labor market with emphasis on their current situation in the era of globalization.

CISO 5007 - Seminar - Women: Research at www III.

Three credits. It can be repeated with credit up to a maximum of 9 credits.

Research course on the World Wide Web on women in the historical development of their incorporation into the labor market with emphasis on their current situation in the era of globalization.

CISO 5015 - Research Techniques at www I

Three credits. One hour of seminar, one hour of workshop and one hour of research a week.

Practical course on research skills and techniques on the internet/www. They are necessary to access the social databases distributed in the different research centers in different parts of the world.

CISO 5016 - Research Techniques on www II

Three credits. One hour of seminar, one hour of workshop and one hour of research a week.

Practical course with asynchronous methodological elements in the development of research skills and techniques on the www. Structured and guided research, assisted by networks of telecommunicating computers that connect databases at a global level. This course can be repeated up to three times (nine credits) under different topics.

CISO 5017 - Research Techniques at www III

Three credits. One hour of seminar, one hour of workshop and one hour of research a week.

Practical course with asynchronous methodological elements in the development of research skills and techniques on the www. Structured and guided research, assisted by networks of telecommunicating computers that connect databases at a global level.

COOP 3005 - History and Philosophy of Cooperativism

Three credits.

It presents a global vision of the cooperative doctrine. The cooperative principles and methods established by the forerunners of this movement are studied and their evaluation up to the present is discussed. It studies the historical development of the cooperative movement as a socio-economic system that aspires to maximum justice in the process of distribution of goods and services, replacing the spirit of profit with a spirit of service and mutual aid. It is compared to other existing systems.

COOP 3006 - Group Dynamics

Three credits. Three hours of lecture a week.

The various theoretical orientations on the interpretation of group behavior are presented. Theoretical aspects relevant to group dynamics are studied as a basis for understanding the structure and dynamism of small groups such as social interaction, individual motivations, group process, cohesion, group norms and pressures, functional differentiation, sociometric relationships, group moral productivity, leadership and problem solving. Experiential experiences and practice exercises are carried out where students participate in relatively structured discussion groups. These groups serve as a means for a variety of learning: transferring the theoretical knowledge acquired to the group situation, discovering and developing problem-solving skills of motivation, communication, interpersonal conflict, resistance to change, leadership, etc. It is hoped that the course will enable the student to participate as an agent of change in the restructuring of the groups and organizations to which he or she belongs and with which he or she will eventually work as a leader. Special attention will be given to the use of these skills and techniques in the promotion and organization of cooperative enterprises.

COOP 3015 - Credit Unions

Three credits.

Students will gain knowledge about the organization and operation of credit unions. Emphasis will be given to the rules that govern the functioning of the governing bodies of this company, namely: board of directors, credit committee, supervisory committee. Students will have the opportunity to evaluate, based

on the knowledge acquired in the course, the operation of credit unions in Puerto Rico.

COOP 3025 - Organization and Practice of Cooperativism

Three credits.

The practical realization of the cooperative doctrine through the different types of cooperative societies is studied. The organization and functioning of these is discussed, and the incorporation of cooperative principles and methods in existing societies is analyzed. It presents the cooperative movement in Puerto Rico, its impact on the economy and its possibilities as an alternative to solve the socioeconomic problems that affect the country. The development of the cooperative movement in other countries is also studied.

COOP 3035 - Cooperative Education

Three credits.

It is discussed what cooperative education is. Cooperative education is presented as an aspect of adult education, with special emphasis on the study of the teaching-learning process, pedagogical principles, psychological principles and principles of community organization to be taken into account in the task of cooperative education. In addition, the role of cooperative education as a means of inducing change-oriented towards understanding and acceptance of the ideology of the cooperative movement as a basis for cooperative action is discussed. It guides the student on how to plan educational programs and relates to the adult education programs that have given rise to cooperativism. Techniques and resources for cooperative education are presented, and finally, current trends in cooperative education and their implications for the socioeconomic system of Puerto Rican society are discussed.

COOP 3045 - Audiovisual Education Techniques

Three credits.

Study of theories and practices of audiovisual education techniques and their application to adult education that is promoted in the cooperative movement. Techniques for presenting films, recordings, and other methods of sound reproduction are studied; Clichés, exhibitions, silk screen processes, etc. Students will have the opportunity to manipulate the corresponding equipment in the acquisition of each of the skills being taught.

COOP 3055 - Cooperativism and the School

Three credits. Prerequisite: COOP 3005.

The interaction of education and cooperativism in terms of their social function is analysed. The framework of action of the youth cooperative is studied and its educational values are pointed out. Activities, pedagogical materials and techniques applicable in the teaching of cooperative education in schools are considered. Students acquire knowledge about the organization and operation of school cooperatives for consumption, savings and credit, industrial production, marketing, recreation, and mixed services.

COOP 3075 - Analysis of Financial Statements

Three credits.

The preparation, analysis and interpretation of financial statements in the cooperative enterprise is discussed. Problems affecting the liquidity of the business, sources of income, and methods to balance the costs and revenues of the cooperative business are also discussed.

COOP 3095 - Agricultural Cooperatives

Three credits. Prerequisite: COOP 3005.

Analysis of the organization and functioning of agricultural cooperatives in Puerto Rico. It studies the contribution that these organizations can make to the economy of Puerto Rico and the most common problems in the organization, financing, and administration of these companies. Students will have the opportunity, through laboratories, to study in the field the development of this phase of the cooperative movement in Puerto Rico by visiting the different agricultural cooperatives that operate on the island.

COOP 3105 - Credit Union Administration

Three credits.

The knowledge to effectively perform the functions of treasurer-administrator and supervisory committee of credit unions is studied. In addition, this course includes a laboratory on the bookkeeping of credit unions and the supervision or intervention of the books of these types of cooperative associations. The student will analyze the economic development of credit unions by evaluating the financial statements of such cooperative associations.

COOP 3115 - Consumer Cooperatives

Three credits.

The way to organize consumer cooperatives is discussed. The rules of operation of the governing bodies of these companies are studied. Students will have the opportunity to evaluate, based on the knowledge acquired in the course, the functioning of consumer cooperatives.

COOP 3125 - Administration of Consumer Cooperatives

Three credits.

It discusses retail distribution and its functions within the economy at large, as well as the general accepted rules of management in this field. The different types and distributive organizations, their structure and functioning will be discussed. Special attention will be given to the elements that make up the functions of buying and selling merchandise such as: merchandise and inventory control, price determination, sales promotion and operation systems. All the theory presented in the course will be approached from the point of view of the consumer cooperatives operating in Puerto Rico. Students will be able to practice administrative techniques in different consumer cooperatives and cooperative supermarkets.

COOP 3135 - Cooperative Legislation

Three credits. Prerequisite: COOP 3005.

The aim is to equip the student with the basic legal concepts that anyone who is linked as a member, director or official of a cooperative needs to know in order to maintain legal relationships on behalf of the cooperative. As legal concepts are discussed, the current statutes and regulations governing cooperatives in Puerto Rico are analyzed and studied and compared with foreign statutes regulating cooperatives of various types in other countries.

COOP 3145 - Management of Cooperative Enterprises

Three credits.

The basic managerial functions will be exposed and formulated throughout the course in a systematic way so that the student grasps the technical essence of cooperative managerial management. The course covers all areas of management, emphasizing the economic principles on which the manager's decisions are based and their application to cooperative enterprises. This course includes fieldwork, visits to different cooperatives and laboratory exercises.

COOP 3155 - Insurance Cooperatives

Three credits.

Discussion of the fundamental concepts of insurance and re-insurance. History and current condition of cooperative insurance in other countries and in Puerto Rico. Regulation, organization, promotion, operation and supervision of insurance cooperatives and their impact on our economy.

COOP 3165 - Cooperative Study Trip to Foreign Countries

Three credits. Prerequisite: COOP 3005, 3025.

Study of the most representative expressions of the cooperative movement in the selected foreign countries through direct experience through a six-week trip, during the summer sessions of each year. During the trip, the students will receive proper guidance from a professor from the Institute of Cooperativism and leaders of the cooperative movement from the countries visited.

COOP 3175 - Parliamentary Procedures

Three credits.

Analysis of the basic concepts of the deliberative procedure and its application, with special emphasis on the drafting of the constitution and regulations of an organization. In addition to the exposition and analysis of parliamentary procedure, students will be given the opportunity to practice and observe the application of the principles explained in the deliberative processes of associations, senates and other deliberative bodies.

COOP 3255 - Community Organizing and Leadership

Three credits.

The concept of community as a social system is presented. Fundamental concepts such as education, community development and organization, community action, and social action are discussed. The objectives, principles, and strategies in the process of community development and organization are presented and discussed. The student is related to the importance of the study of the community and the diagnosis of communal needs and problems, as well as to the human, economic and institutional

resources in this process. New approaches to leadership and their importance in community development and organization are discussed. The importance and necessity of community development and organization as a basis for the organization of cooperatives is justified.

COOP 4000 - Co-management, Self-Management and Worker Cooperatives

Three credits. Three hours of lecture a week. Prerequisite: COOP 3005, COOP 3145.

Workers' participation in the administration of enterprises. Historical and conceptual perspective of the various ways in which it is carried out in industrialized and developing countries. New forms of work organization, financing planning, economic achievements, distribution of benefits and the impact on organized work and cooperativism. He presents the worker cooperative as the most perfect form of worker participation in the enterprise.

COOP 4005 - Seminar: Problems of Cooperativism

Three credits. Prerequisite: COOP 3005 and 3025.

The course is developed on the basis of problem studies selected by the students in consultation with the teacher. Among the problems that can be analyzed and discussed are those of member relations, distribution of surpluses, capitalization, management, taxes, government participation in cooperative development, and legislation. Students will write an essay on the topic they choose to study.

COOP 4006 - Seminar: Study-Work in Cooperativism

Six credits. Prerequisite: Graduate candidate with no less than 6 credits passed in cooperativism.

Observation and practice in the field of cooperativism for graduating students, in the area of their individual interest. Students will be offered the opportunity to undertake various internships according to their specific interests, which may include short periods of consecutive, full-time salaried work in autonomous and government institutions. Among other objectives, it is pursued to promote the enrichment of theoretical knowledge with its application in practice, to detect opportunities in the chosen area and to visualize, with the student experience reverted to the classroom, the possibilities of updating, if necessary, the corresponding curriculum. Students will have the opportunity to select the course according to the advice to be offered and according to the number of credits desired, the nature of the work and the time invested in the observations and practices of the course.
of

COOP 4007 - Promotion, Public Relations and Cooperative Advertising

Three credits. Three hours of discussion a week. Prerequisite: COOP 3005 and/or COOP 3035.

Analysis and study of the concepts, practices, procedures and techniques used in promotion, public relations and advertising to disseminate the cooperative philosophy, its characteristics, its organization and the services it offers to the Puerto Rican community.

COOP 4008 - Cooperative Movement in Puerto Rico

Three credits. Three hours of discussion a week.

Study of the history and development of the cooperative movement in Puerto Rico. The different phases of its development are discussed, including the European influence on Puerto Rican cooperativism, the precursors in the 19th and 20th centuries, its growth phase in the years 1920-1945, the period of consolidation in the years 1957-1964 and the development in the following decades.

COOP 4015 - Cooperative Management Seminar

Three credits.

The course involves a thorough analysis of a cooperative enterprise to determine areas that require improvement and corrections. Break-even points and other phases of cooperative business are analysed through questionnaires, graphs, reports and field tests. The necessary controls are established and their functions are analyzed.

COOP 4016 - Accounting for Credit Unions

Three credits. Three hours of discussion a week. Prerequisite: COOP 3015, COOP 3105 or COOP 3145.

Analysis of the accounting processes used by cooperatives in Puerto Rico, with emphasis on the accounting principles and practices applied to this type of organization in accordance with current cooperative laws and regulations. The student will know and apply the general principles, concepts and documents of accounting, to ensure the quality of daily operations and managerial efficiency in the cooperative enterprise.

COOP 4025 - Seminar: Study-Work in Cooperativism

Three credits. Prerequisite: Graduation candidates with no less than 6 credits passed in cooperativism.

Observation and practice in the field of cooperativism for graduating students in the area of their individual interest. Students will be offered the opportunity to undertake various internships according to their specific interests, which may include short periods of consecutive, full-time salaried work in autonomous and government institutions. Among other objectives, the aim is to promote the enrichment of theoretical knowledge with its application in practice, to detect opportunities in the chosen area and to visualize, with the student experience returned to the classroom, the possibilities of updating, if necessary, the corresponding curriculum. Students will have the opportunity to select the course according to the advice to be offered and according to the number of credits desired, the nature of the work and the time invested in the observations and practices of the same.

COOP 4027 - Scientific Research in the Cooperative Enterprise

Three credits. Three lecture hours per week Prerequisite: COOP 3005 y 3025.

Principles of scientific research and their application to the study of cooperative enterprise, both in Puerto Rico and abroad. Students are expected to develop skills in the use of scientific research methods and techniques and apply them to the systematic analysis of cooperative enterprises.

COOP 5005 - Cooperative Philosophy and Organization

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.

This course is aimed at undergraduate and graduate students who are interested in learning about cooperativism as a form of self-management to apply in their professional lives after their university studies or as a tool for social action from their disciplines. He researches and analyzes the philosophy, legal and organizational framework of cooperativism in the context of Puerto Rico's economic development. Students will present research projects related to the perspectives and manifestations of this model in the national or international context. This course can be offered in face-to-face and distance learning modes.

COOP 5007 - Associative Dimension of Cooperatives

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.

Study of the structure and functioning of cooperative groups. It consists of a critical and reflective approach to the various conceptual and practical frameworks that constitute the associative dimension of cooperatives. It includes concepts of self-managed group dynamics, types of groups, teamwork, group decision-making, communication and leadership contextualized in ethics and cooperative values. The course is a workshop for the application of concepts related to group dynamics from the associative dimension in cooperative management. Aimed at graduate and undergraduate students and can be offered in face-to-face and distance learning modes.

COOP 5008 - Business Dimension of Cooperatives

Three credits. Three hours of lecture a week. Prerequisite: COOP 5005.

Study of the cooperative as a model of business organization. The business aspects defined by the general law of cooperatives are presented. Various philosophical, social, economic and legal aspects necessary for the evaluation of the viability of a cooperative are discussed. A cooperative business plan is drawn up and a management model is proposed in accordance with organizational values and principles. This course is aimed at graduate and undergraduate students and can be offered in face-to-face and distance learning modes.

COOP 5009 - Cooperative Study Tour

Three credits. Three hours of lecture a week. Prerequisite: COOP 5005.

It is offered in the summer session and is optional. It provides students with the international dimension of cooperativism as an added value to their academic training. It includes a thoughtful and comparative approach of the cooperative movement in Puerto Rico with that of other countries. The course will begin with pre-trip sessions to study the most representative expressions of the cooperative movement in the country visited. During the trip, the students will receive guidance from the professor of the cooperative institute and leaders of the cooperative movement of the visited country.

ECON 3005 - Introduction to Economics

Three credits. Three hours of lecture a week.

Introduction to the fundamentals and methodology of microeconomic and macroeconomic theory. Demand, supply and price analysis. Market structure. Theories of the consumer and the firm. Income

distribution. Social accounting. Keynesian theory. Determination of income, production and employment. Monetary and fiscal policy. Contemporary Economic Problems.

ECON 3006 - Principles of Economics

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

The methodology of economic sciences, economic models, review of basic mathematical principles and economic analysis at the micro and macro level.

ECON 3021 - Principles of Economics I

Three credits. Three hours of lecture a week.

Fundamentals, scope and methods of economic analysis. Demand and utility. Supply and costs. Pricing 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.

ECON 3022 - Principles of Economics II

Three credits. Three hours of lecture a week. Prerequisite: ECON 3021 or concurrent.

Social accounting. Keynesian Theory. Determination of the level of income, production and employment. Business cycles. Monetary and fiscal policy. Contemporary economic problems economic growth and development, inflation and unemployment, pollution and quality of life, etc.

ECON 3027 - Analytical Techniques for Economists

Three credits. Three hours of lecture and two hours of lab per week.

Students will develop basic skills for economic analysis. These include the use of theoretical models in economics, the role of mathematics in economic analysis, variables, functions, equations, time series, graphs, and solutions to systems of simultaneous equations; as well as an introduction to economic indicators and the use of electronic spreadsheets for economic analysis. The course includes a laboratory for the practical application of analytical techniques.

ECON 3031 - Statistical Methods I and II

Three credits. Four hours of lecture per week. Prerequisite: ECON 3005.

Introduction to modern statistical methods, with special reference to their application in the economic field. It covers: the descriptive aspects of frequency distribution; statistical induction and the problem of sample selection; construction and use of indexes; Time series analysis, variant analysis, simple, multiple and partial correlation.

ECON 3032 - Statistical Methods I and II

Three credits. Four hours of lecture per week. Prerequisite: ECON 3005.

Introduction to modern statistical methods, with special reference to their application in the economic field. It covers: the descriptive aspects of frequency distribution; statistical induction and the problem of

sample selection; construction and use of indexes; Time series analysis, variant analysis, simple, multiple and partial correlation.

ECON 3035 - The Computer in Economic Analysis

Three credits. Three hours of lecture a week. Prerequisite: ECON 3021 y 3022, ECON 3031.

It trains the student in the use of the computer. The construction of a database that responds to the needs of the analysis model will be discussed. The costs and benefits of different structures in the database will be evaluated. The student will become familiar with the use of the SPSS-S program with an emphasis on economics.

ECON 3065 - Political Economy of Capitalism

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005 o equivalent.

Study of the emergence and development of the capitalist mode of production by analyzing the fundamental economic laws that govern that system according to Marxist political economy.

ECON 3085 - Economic and Social Development of Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Analysis of the economic and social development process of Puerto Rico through a dynamic-social approach. Development theory is studied in order to frame the consideration of the following aspects: political framework, physical and human resources, agriculture, the industrial sector, technology, international trade, public policy, and the interrelation of these factors in the configuration of the economic and social reality of Puerto Rico.

ECON 3115 - Consumer Economics

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005 or ECON 3021.

The most relevant theory, concepts and practical methodological tools are used for the economic analysis of consumer decisions, particularly those related to the optimal allocation of the family budget, including the purchase of consumer goods and investments (productive and financial). The most important consumer protection laws are discussed, as well as governmental and non-governmental institutions related to she.

ECON 3116 - Economics of Aging

Three credits. Three hours of lecture a week. Prerequisites: ECON 3021, ECON 3022 or ECON 3005.

One of the most difficult challenges facing the world's developed economies is the ageing of their populations. In Puerto Rico and the United States, this demographic change is and will continue to put pressure on public and private entities related to health and retirement, among others. This course is designed for a high school student to learn about the economic situation of elderly populations and its impact on the macroeconomics of countries. In this course, through lectures in class, the textbook and additional reading, the student will be able to learn and analyze how the environment of this group has changed and what needs to be done to temper public policy to these changes. You will investigate global demographic trends and changes in family structure. It will evaluate topics such as retirement, health

care, government transfers, Medicare and Social Security.

ECON 4015 - Economic Development

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Analysis of the natural, social, cultural and political causes of underdevelopment and of the relevant theories from the Greeks to the contemporary era. Common markets as development mechanisms.

ECON 4025 - Currency & Banking

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

The economic principles that govern the organization and functioning of monetary and banking systems in modern society. History, Theory, and Functions of Currency; monetary patterns; Responsibility of the government and banks in the minting of coins and issuance of banknotes. Commercial banking, resources and obligations of banks, banking policy. Commercial banking in Puerto Rico, the federal reserve system, the banking system in other countries. The value of the currency and its relationship to the general price level. Post-war monetary problems. Relationship between monetary policy and fiscal policy.

ECON 4045 - Comparative Economic Systems

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

The 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. Interrelation of government and economy under capitalism, democratic socialism, communism, fascism, and Nazi socialism. Thorough analysis of the theoretical literature of each of these systems.

ECON 4055 - History of Economic Thought

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Study of the development of economic thought with emphasis on the period from 1776 to the present. The classical school and its predecessors, from the Greeks to Adam Smith; the ancient and modern historical schools, the Austrian school, the English school (Cambridge), the mathematical school, the new political economy.

ECON 4065 - Public Finance and Fiscal Policy

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Review of new aspects of government finances. Includes: budget and public expenditures, structure and fiscal policy. Both the theoretical foundations of the subject and the practical problems of administration are considered.

ECON 4085 - International Economics

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Theory and practice of international trade and capital movements. It includes: the historical development of the theory of international trade (the Neoclassical Theory and its evolution into the Modern Theory), the monetary mechanism of exchange under different monetary standards, the problem of exchange rates, the balance of payments and its relationship to national income, international monetary problems,

international trade, economic integration and international trade agreements.

ECON 4087 - International Trade

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005 or ECON 3021.

Analysis of the pure theory of international trade, including classical models of absolute and comparative advantages; the neoclassical model of general equilibrium and alternative views such as imperfect and strategic models and competition and unequal exchange. Discussion of the evolution of international trade from the nineteenth century to the present day, with special emphasis on current trends in international trade relations, in the light of the theories studied.

ECON 4095 - Evolution of Modern Capitalism

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

The history of capitalism from the first industrial revolution to the present, highlighting the differences that separate its development in the first and second half of the nineteenth century.

ECON 4105 - Seminar: Fundamental Problems of Economic Structure

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Analysis of the typical structures of underdeveloped economies and of the structural and institutional changes associated with the process of economic development with special reference to the economy of Puerto Rico.

ECON 4115 - Seminar: Contemporary Economic Thought.

Three credits. Three hours of lecture a week.

Analysis of recent developments in economic thought, as reflected in recent books, journal articles, speeches, and statements.

ECON 4121 - Mathematical Foundations of Economics I

Three credits. Prerequisite: ECON 3005.

The objective of the course is to familiarize students with mathematical tools that emphasize their use in modern economic analysis. It reviews the basic concepts of mathematical functions of all kinds, derivatives and differentials, integrals and determinants, always emphasizing their economic application. It deals extensively with cost functions, supply and demand analysis, monopoly and duopoly (static and dynamic), production functions, elasticities of substitution between factors of production, theory of capital and interest, simple linear programming and its application to economic planning and resource distribution, input-output techniques and their economic and technical significance, Growth theory, analysis of various economic systems (Keynesian, classical, Marxist) through the use of determinants, utility functions.

ECON4122 - Mathematical Foundations of Economics II

Three credits. Prerequisite: ECON 3005.

The objective of the course is to familiarize students with mathematical tools that emphasize their use in modern economic analysis. It reviews the basic concepts of mathematical functions of all kinds, derived and differential, integral and determinant, always emphasizing their economic

application. It deals extensively with cost functions, supply and demand analysis, monopoly and duopoly (static and dynamic), production functions, elasticities of substitution between factors of production, capital and interest theory, simple linear programming and its application to economic planning and resource allocation, input-output techniques and their economic and technical significance, Growth theory, analysis of various economic systems (Keynesian, classical, Marxist) through the use of determinants, utility functions.

ECON 4125 - Managerial Economics

Three credits. Three hours of lecture a week. Prerequisite: ECON 4381.

It is intended to cover some special topics of Microeconomic Theory of special interest to the economist of private enterprise such as: 1) the concept of risk and uncertainty, 2) the nature and measurement of profit and 3) some additional aspects in the determination of prices. In addition, it aims to present empirical studies and the methodology used in the following areas: 1) demand analysis, 2) cost analysis, 3) cost estimation and investment decisions in a company.

ECON 4135 - Economics of Wellbeing

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Introduction to the Social Welfare Optimization Theory and how this is achieved in a free enterprise economy. Externalities and public utilities will be some of the topics to be discussed.

ECON 4145 - Agricultural Economics

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Application of the Principles of Economics to the Problems of Agriculture: Economic Structure and Aspects of Puerto Rican Agriculture. Demand and supply analysis; production of agricultural products and some aspects of agricultural planning.

ECON 4155 - Economic History of Puerto Rico in the Twentieth Century

Three credits. Three hours of lecture a week. Prerequisite: ECON 4382.

The course will cover the contemporary period, emphasizing the institutional changes that have occurred in the economy.

ECON 4165 - Economic Evaluation of Public Programs

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Introduction to the theory of public investment and the application of the cost-benefit technique. Topics such as: the *raison d'être* of the technique, intra- and intertemporal valuation of benefits and costs, shadow prices, investment algorithms, restrictive conditions, etc., will be discussed.

ECON 4166 - Economy of Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Study of Puerto Rico's economic problems through an analysis of the characteristics and trends of our economy. It covers: geography and economic history; the role of agriculture and certain specific agricultural products; land tenure; the population and the working group; economic relations with the United States; public revenue and expenditure; banking and credit facilities; transport and communications; net income, gross product, and external balance of payments; industrial

development and possibilities for future development; economic policy of the state government.

ECON4175 - Accounting for Economists

Three credits.

The use of accounting in various branches of economics— interpretation of financial statements, social accounts, cash flow, consumption-output analysis, etc.

ECON 4185 - Economic Issues and Trends in Latin America

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Analysis of the main trends in the Latin American economy with emphasis on the factors, problems and policies that promote and impede development. Among other topics, the following topics will be discussed: the evolution of the Latin American economy in terms of basic institutions and international influences; living standards; problems of mono-economics; land tenure systems; problems of improving agricultural methods; foreign investment; balance of payments; industrialization and related problems.

ECON 4195 - Economic Legislation

Three credits. Prerequisite: ECON 3005.

The purpose of the course is to analyze the role of government in a capitalist economy, through the study of some economic legislation in force in Puerto Rico. An analysis will be made of the specific economic problem that certain legislation has tried to solve or raise, the alternatives offered by the legislator when approving the law, the delegation that is generally made to the existing administrative agency, or the creation of a body to give effect to the law and the interpretation of it made by the judiciary.

ECON 4205 - Business Cycles

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

The nature and causes of business cycles; the problem of balance and conflicting forces within the system; the various theories about cycles; public and private control methods.

ECON 4215 - Caribbean Economic Issues and Trends

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Analysis of institutions and present conditions of greater importance for the explanation of stagnation and economic growth in certain Caribbean countries. Significance of the plantation economy, specialization and international trade. Recent trends in general norms and economic structure and current socio-economic problems.

ECON 4225 - Economics of Labour

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Examination of the theory relevant to the behavior of the labor market, demand and supply of labor, the volume of employment and the determination of wages. Special attention is given to the relationship between working conditions and the problem of population and resources, education and standard of living, the effect of the policies and practices of labor unions on government regulation.

ECON 4235 - National Income

Three credits. Three hours of lecture a week. Prerequisite: ECON 4382.

The concept of national income as it relates to the basic accounts of individual firms, government units, and consumption units. The paradox of saving and investing. Usefulness of national and sectoral income estimates in the analysis of development problems, especially in underdeveloped areas. Theoretical considerations involved.

ECON 4265 - Input-Production Analysis

Three credits. Three hours of lecture a week. Prerequisite: ECON 4121- 4122.

Study of industrial interrelations, in general terms and empirical applications to Puerto Rico and static and dynamic models in a framework by industrial sector.

ECON 4271 - Applied Economic Analysis

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Seminar for fourth-year students: the application of the tools of economic analysis a policy issues; the influence of public policy problems on the development of economic theory.

ECON 4272 - Applied Economic Analysis

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Seminar for fourth-year students: the application of the tools of economic analysis public policy issues; the influence of public policy problems on the development of economic theory.

ECON 4285 - The Economics of Education

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

The literature related to the economics of education is analyzed by selecting several books and articles for detailed analysis. Topics include: the concept of human capital, educational planning; contribution to economic development; international comparisons of income, output, and education; econometric models; welfare economics and the financing of education, the productivity and efficiency of education.

ECON 4295 - Economic Thought of Ricardo and Marx

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Study of Ricardo's principles of political economy. Theory of Value and Rent. The Integrated Thought of Karl Marx. Ideological Bases of Marxist Thought: Economic Interpretation of History, Class Struggle, and Manuscripts from 1844 to the Capital. Theory and economic analysis of these works.

ECON 4305 - Economic Analysis and Public Policy

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

It studies the fundamental economic principles and models and analyzes their uses and limitations as instruments in the programming of public economic policy. It analyzes the following aspects: the relationship between the government and the private economic sector; Analysis of relevant economic theories and models (classical, neoclassical, Keynesian, post-Keynesian). Finally, the theoretical and

practical foundations of public economic policy in the following sectors are analyzed: agriculture, labor-management relations, commerce, industry, economic development, fiscal policy, etc.

ECON 4315 - Labor Economics Seminar

Three credits. Three hours of lecture a week. Prerequisite: ECON 4225.

Critical analysis of labor economics problems with special reference to Puerto Rico. Emphasis is placed on specific empirical research studies such as: measurement of unemployment, the relationship between the volume of employment and the increase or decrease of wages, the structure of wages, the relationship between wages and investment expenditures, characteristics, changes, and the geographical and occupational mobility or immobility of the workforce.
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ECON 4326 - Economics of Collective Decisions

Three credits. Three hours of lecture a week. Prerequisite: ECON 4381.

An Economic Analysis of the Forms of Institutional Organization Where Demand Is Specified and the offer for collective goods. Special emphasis will be given to the study of the effects that the form of organization of representative democracy has on the economy.

ECON4335 - Industrial Organization

Three credits Prerequisite: ECON 4382.

The organization and structure of industry and its markets in the modern economy; the system of distribution of wealth and income, the problem of industrial location, the politics of economic power.

ECON 4345 - Seminar: Current Economic Issues

*Three credits. Three hours of lecture a week. Prerequisite: ECON 3005
y permission from the counselor.*

Analysis of current economic issues and "sisees" that capture the student's attention via the daily press and other media in the light of philosophy and economic theory, historical background and the history of economic doctrines.

ECON 4355 - Introduction to Econometrics

Three credits. Three hours of lecture a week. Prerequisite: ECON 4121- 4222.

Recapitulation of the elements of integral calculus; econometric models; Static Models and dynamic models; uncertainty problems; statistical inferences; model-building problems; Econometrics and economic policy.

ECON 4365 - Human Resource Economics

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005- 3006.

Problems of population growth, migratory movement, changes in occupational structure and economic growth, productivity and the labour market.

formation of capital human education Bless you

ECON 4376 - Monetary Theory and Policy

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005, 4382.

Analysis of the different classical, neoclassical and modern monetary theories and their application in monetary policy.

ECON 4381 - Microeconomic-Intermediate Analysis

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Re-examination of modern microeconomic theory. Methodology and basic concepts: supply and demand functions; elasticity, average ratios, various equilibrium types and conditions. Theory of the firm; production function; complementation and substitution; marginal productivity; Profit maximization. Theory of consumption, formal similarity with the theory of the firm; consumer surpluses; Utility maximization. Theory of market relations; competition, oligopoly, monopoly and monopolistic competition. Welfare economics.

ECON 4382 - Interim Macroeconomic Analysis

Three credits. Three hours of lecture a week. Prerequisite: ECON 3005.

Examination of the fundamentals of Macroeconomic Theory, methodology and basic aggregative concepts, with special attention to the analysis of economic development. Static economic models will be studied; classical and neoclassical models of economic growth; classical, neoclassical, and neo-Keynesian.

ECON 4385 - Open Economies: International Payments and Macroeconomic Policy

Three credits. Three hours of lecture and discussion per week. Prerequisite: ECON 4382 or equivalent.

Review of the theory of international payments, its relationship to exchange rates and macroeconomic policy. Macroeconomic policy with fixed and flexible exchange rates. International coordination of macroeconomic policy. Discussion of the various systems of international payments from the gold standard of the nineteenth century to the Bretton Woods dollar standard. Analysis of problems and trends in the post-Bretton Woods system.

ECON 4396 - Interdisciplinary Seminar: Economic Development in Latin America and the Caribbean

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: CISO 3121-3122/ ECON 3005.

Interdisciplinary seminar on the relationship between the history of capitalism and the emergence of economic theories, with emphasis on the evolution of ideas of development and underdevelopment, particularly in Latin America and the Caribbean. Reading and discussion on the phenomenon of developmentalism in the region, including the various theories and experiences generated to date, culminating in research in which each student applies a theory to the analysis of a specific country.

ECON 4415 - Seminar: The Restructuring of the International Economy

Three credits. Three hours of seminar per week. Prerequisite: Teacher's permission.

Analysis of trends in the international economy with special emphasis on the institutional changes that arose as a result of the crisis of the post-war economic system and the collapse of the Soviet camp.

ECON 4416 - Seminar: Economic Research Methods

Three credits. Three hours of lecture a week. Prerequisite: ECON 3032.

Economic research methods such as methodologies commonly used in economics, literature review and criticism, and hypothesis development are studied. You will learn searchable and reference sources of economic literature, data sources, and other research resources, and how to access them. The student will develop a research project that demonstrates their understanding of economic research.

ECON 5005 - Urban Economics Seminar

Three credits. Prerequisite: ECON 3031-3032 and ECON 4381.

Study of methods for the economic analysis of urban development and discussion of the main problems related to the urban environment, such as: the economic development of cities, housing, transportation, environmental pollution and the financing of urban governments. It is intended that students apply the techniques of economic analysis to study some urban economic aspect.

ECON 5010 - Health Economics.

Three credits. Three hours of discussion a week. Prerequisite: ECON 4381.

Analysis of problems related to health and medical services. Application of the theoretical and empirical techniques of economic analysis to the study of these, including particular problems such as the economics of health welfare as a commodity, hospitals and the non-profit sector, human capital and medical resources, the role of government, legal problems of medical malpractice, and innovation in medicine.

GEOG 3100 - Elements of Geography

Three credits. Three hours of lecture a week.

Introductory course to geography as a synoptic subject that conceptually integrates the physical environment (atmosphere, lithosphere, hydrosphere and biosphere) and human systems (social, cultural, economic and political). this course replaces GEOG 3155.

GEOG 3150 - Human Geography

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

Description and discussion of the human components of geography. Emphasis is placed on basic concepts, processes, and agents that are responsible for the spatial heterogeneity that exists on our planet. This course replaces GEOG 3195.

GEOG 3160 - Geography of Asia

Three credits. Three hours of lecture a week. Prerequisite: 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 make up the region. This course was previously GEOG 3005.

GEOG 3165 - Geography of Puerto Rico

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

Study and discussion of the physical, environmental and human geography of Puerto Rico, its territorial planning and its position in the contemporary world.

GEOG 3170 - Geography of Africa

Three credits. Three hours of lecture a 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 make up the region. This course was previously GEOG 3015.

GEOG3180 - Geography of the United States

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

Geographical study and analysis of the United States of America. It emphasizes regional variations in its physical, economic, population, and other socioeconomic attributes. The course presents an integrated view of the country's most important economic and environmental issues and their integration into the new world economic order.

GEOG 3200 - Introduction to Physical Geography

Three credits. Two hours of lecture and one hour of laboratory time per week. Prerequisite: GEOG 3155.

Careful study of the most important elements of the geographical-natural environment, focusing on their distribution, the principles and processes involved in their creation and, above all, the spatial interaction of these elements. It provides a fine view of the physical environment in which man develops, thus providing the student with a greater understanding of the physical aspects of his geographical environment and its influence on the cultural and economic development of man. It used to be GEOG 4145.

GEOG 3225 - Geography of South America

Three credits. Three hours of lecture a 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 make up the region.

GEOG 3250 - Introduction to Quantitative Methods in Geography

Three credits. Three hours of lecture a week. Prerequisites: GEOG-3155 and mate3016.

Introduction to scientific reasoning and statistics applied to geography. Descriptive and inferential elements in the spatial context are emphasized. This course was previously GEOG-3055.

GEOG 3266 - Historical Geography of Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3100.

An elective geography course for students at any level consisting of lectures and field trips in which historical processes are studied from a geographical point of view in Puerto Rico. The patterns of land use and evolution of the municipalities will be analyzed. This crossover is part of the area of emphasis of regional and human geography for the Bachelor of Arts in Social Sciences with a concentration in Geography.

GEOG 3275 - Principles of Science

Three credits. Three hours of lecture a week.

Application of the fundamental principles of physics and chemistry to physio-geographical disciplines.

GEOG 3285 - Elements of Cartographies

Three credits. Three hours of lecture a week. Prerequisites: CISO-3121, 3122 and GEOG-3155.

General course on the basic elements of cartography mainly for geography students. It is a requirement for advanced courses in cartography, geographic information systems and remote sensing. Includes a brief history of cartography, the characteristics of the globe and basic and theoretical concepts regarding map types, coordinate systems, projections, distortions, scales, and the map as a research tool and source of communication. It will involve lectures, discussions, and practice with the maps.

GEOG 3325 - Geography of the Caribbean and Central America

Three credits. Three hours of lecture a 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 make up the region. This course replaces GEOG 3007.

GEOG 3350 - Geography of the Middle East

Three credits. Three hours of lecture a 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 make up the region. It used to be GEOG 3350.

GEOG 3400 - Introduction to Biogeography

Three credits. Three hours of lecture a week. Prerequisites: GEOG 3155.

Introduction to the Geographical Study of Biodiversity with emphasis on Cenozoic Fauna and Flora. It focuses on human intervention in globalization and the management of living beings. Emphasis on the case of the Antilles in its neotropical context. This course was previously GEOG 3006.

GEOG 3425 - Computers in Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Introduction to the use of the computer in terms of operating systems, specialized writing programming, statistical analysis, graphical and cartographic representation in geography. It used to be GEOG 4195.

GEOG 3450 - Introduction to Geology and its Geographical Applications

Three credits. Three hours of lecture a week. Prerequisites: GEOG 3155.

Elements of general geology and their applications in physical and human geography. This course was previously GEOG 3205.

GEOG 3475 - Introduction to Geographic Information Systems

Three credits. Three hours of lecture a week. Prerequisite: GEOG-3155.

Elements of geography. This course introduces students in the department of geography and related departments to the basic principles of geographic information systems (GIS). Through theoretical discussion and practice exercises, the basic principles of geodesy necessary for the proper handling of spatial data, vector and matrix structures, as well as techniques for data entry, manipulation, storage, analysis and deployment of data will be studied in order to ensure that the student develops the skills required to perform various types of analysis using a GIS.

GEOG 3525 - Human Ecology

Three credits. Three hours of lecture a week. Prerequisite: GEOG-3155.

It addresses the main problems of resource breakdown and how they affect human conglomerates and their institutions. This course was previously GEOG 3145.

GEOG 3585 - Environmental Conservation

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Conservation of the quality of the environment and resources, with special relevance to Puerto Rico. This course was previously GEOG 3085.

GEOG 3600 - Population Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Qualitative and quantitative description and discussion of the elements that modify the population distribution locally and internationally. It will also look at the actors responsible for the past, existing and future trends of the population as a resource. This course replaces GEOG 3045.

GEOG 3635 - Cultural Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG-3155.

Systematic cultural geography with emphasis on both the technical and philosophical aspects, focusing equally on the general and comparative nature of this general and comparative nature of this science. Special importance is given to the cultural evolution of man, the human impact on the environment and the techniques of geographical research that serve as a basis for interpreting the human landscape. Formerly GEOG 3265.

GEOG 3650 - Urban Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Description and application of qualitative and quantitative models for studies of urban areas. The evolution of the largest urban areas and their physical-spatial implications will be analysed. Emphasis will be placed on existing conditions and future scenarios in relation to global trends. This course was GEOG 3175.

GEOG 3700 - Geography of Religion

Three credits. Three hours of lecture a week. Prerequisite: GEOG-3155, Geography Elements.

Course for geography students on the geographical distribution of religions, as well as their characteristics. It is elective for geography. It will be analyzed how the variables affect the dispersal patterns of religious groups. It will involve lectures, discussions, and practices with the maps.

GEOG 3705 - Cartography, Aerial Photo Interpretation and Map Design

Three credits. Three hours of lecture a week. Prerequisite: GEOG-3155.

It trains the student to locate and transfer information and data from areas or regions to maps, to choose the most appropriate methods for representing such information, and to achieve the clearest and most effective map design. Special importance is given to the ways in which the student interprets maps and aerial photographs related to geographical phenomena. This course was previously GEOG-3105.

GEOG 3725 - Economic Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Study and analysis of the factors and processes that modify the spatial organization of economic activities, taking as a reference the classical and contemporary models of location.

GEOG 3750 - Industrial Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Study and analysis of the evolution of industrial activities to the global market. Emphasis is placed on the spatial models and processes responsible for current geographic patterns using information systems technology. This course was previously GEOG 3025.

GEOG 3755 - Political Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Analysis of the geographical base of states, including the structure of geopolitical patterns and thoughts. Emphasis will be placed on the qualitative aspects of spatial patterns resulting from different policy behaviors at the local, intraregional, interregional and global levels. This course was GEOG 3175.

GEOG 3800– Marine Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG-3155.

Study of the geomorphic and physical processes that prevail in the ocean, emphasizing the study of coastal ecosystems such as estuarine beaches, wetlands, mangroves and platforms from a sedimentological and oceanographic perspective. In addition, the potential impact of anthropogenic activities on these systems is assessed. It used to be GEOG 4006.

GEOG 3825 - Thematic Cartography

Three credits. Three hours of lab time a week. Prerequisites: GEOG-3155 and GEOG-3055.

Advanced mapping. Emphasis is given to the construction of thematic maps. This course used to be GEOG 3125.

GEOG 3915 - Advanced Geographic Information Systems

Three credits. Three hours of lecture a week. Prerequisites: GEOG-3155, 3055 or department director's permit.

Theoretical and practical introduction to geographic information systems and their applications. This course was previously GEOG-4196.

GEOG 4005 - Introduction to Planning

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

Elements of urban and regional planning.

GEOG 4007 - Geography of Transportation

Three credits. Three hours of lecture a week. Prerequisites: GEOG 3155.

Spatial analysis of the evolution of vehicular, air and maritime transportation systems and their relationship with the spatial configuration and economic structure of urban centers. The course presents an integrated view of the various modes of transportation and their impact on the perception and management of geographic space.

GEOG 4015 - Independent Studies

Three credits. Conferences by arrangement. It can be repeated up to a maximum of six credits. Prerequisites: GEOG 3155 and teacher's permission.

Independent studies such as research, readings, etc., conducted by the student under the supervision of a professor in the geography department, students may enroll multiple times with one professor or several.

GEOG 4016 - Introduction to Remote Sensing and its Geographic Applications

Three credits. Three hours of lecture a week. Prerequisites: GEOG 3155, GEOG 3055.

Theoretical and practical introduction to remote sensing and its geographical applications: human and physical.

GEOG 4055 - Interpretation of Aerial Photographs and Photogrammetry

Three credits. One hour of lecture and three hours of laboratory time per week. Prerequisites: GEOG 3155, GEOG 3055.

Interpretation of aerial photographs. Analysis and use of photogrammetry equipment.

GEOG 4110 - Physical Geography of Puerto Rico

Three credits. Three hours of lecture a week. Prerequisites: GEOG 3155.

Specialized study of Puerto Rican orography, meteorology, climatology, hydrology, natural resources, soils, flora and fauna in terms of their respective social importance. This course was GEOG 3215.

GEOG 4125 - Geomorphology

Three credits. Three hours of lecture and one hour of laboratory time per week.

Prerequisite: GEOG3155.

A study of landforms on the earth's surface in terms of age, structure, and the fundamental processes involved in their formation. The emphasis will be on the processes that include man as a geomorphic agent and the relationships between certain landforms and types of land use. Emphasis will also be placed on physical landforms in Puerto Rico.

GEOG 4135 - Resources: Assessment, Management and Conservation

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Objective assessment of physical, biotic and human resources, so as to cultivate a deep concern for their use and disuse by man. Economic and aesthetic qualities are emphasized, along with methods for resource management and some modes for resource conservation.

GEOG 4155 - Medical Geography

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Analysis of the fundamentals of medical geography and a global classification of diseases within their environmental contexts. Emphasis will be placed on the applications of medical service planning.

GEOG 4165 - Applied Climatology

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Analysis of the climate in its intimate relationship with other elements of the environment and all human activities and behavior. Emphasis will be placed on past climates and theories of climate change.

GEOG 4205 - Geography and Law

Three credits. Three hours of lecture per week. Prerequisite: GEOG 3155.

Studies of the fundamental aspects of law, as well as those areas of law that are related to geography. It discusses the world's systems of law, as well as the geographical foundations in legal doctrines.

GEOG 4375 - Geography of the Karst

Three credits. Three hours of reading a week. Prerequisites: GEOG 3155.

An authoritative examination of the processes by which karst landforms evolve and develop and of the main natural and economic qualities of the regions where such landforms are found. Karst landforms in Puerto Rico will be used extensively on frequent field trips for the purpose of substantiating the course. Formerly GEOG 4075.

GEOG 4500 - History and Philosophy of Geography

Three credits. Three hours of lecture a week. Prerequisites: GEOG 3155, GEOG 3055.

Study of geography as an academic discipline and its place among the sciences. Emphasis will be placed on the origins and evolution of the discipline and the most recent trends and paradigms in geographical thinking. This course was previously GEOG 3035.

GEOG 4550 - Geographic Research Methods

Three credits. Three hours of lecture and two hours of laboratory time per week. Prerequisite: GEOG 3055.

Course that provides students with the essential tools to carry out research in the area of geography with its corresponding methodology. This course was previously GEOG 3065.

GEOG 5100 - Geography of Natural and Anthropogenic Hazards

Three credits. Three hours of lecture a week. Prerequisite: GEOG 3155.

Systematic study of natural events and human actions that lead to risks. The course combines theoretical and practical sections aimed at the design of a risk management plan. It used to be GEOG 4185.

PSIC 3003 - Introduction to General Psychology

Four credits. Two hours of lecture and two hours of discussion per week.

The course is a reflection on general psychology as a science as a socio-historical production. Its disciplinary boundaries, the biological and cultural bases that constitute the human subject, fundamental issues and controversies are examined. Among them, perception, the development of cognition, memory, learning, language and the social demand made on the discipline are investigated. Face-to-face, hybrid and online course.

PSIC 3005 - General Psychology

Three credits. Three hours of lecture a week. Prerequisite: for students of natural sciences and business administration.

The course is an introduction to scientific psychology, its scope and limits, the biological and cultural bases that constitute the human subject and selected topics in general psychology. Among others, it discusses perception, emotion, cognition, learning, memory, language, and considerations about the function of discipline in the social world. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 3006 - Social Psychology

Three credits. Prerequisites: PSIC3003 or 3005.

A psychological approach to social life from the point of view of the individual; the psychology of institutions and social conflicts; Critical analysis of the relationship between culture and personality, language, suggestion, imitation, fashions, manias and rumours, stereotypes, attitudes, propaganda, public opinion and leadership.

PSIC 3015 - Personality Theory

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

The way in which the notion of personality has been constructed and configured based on certain dominant understandings within the field of psychology will be studied. The epistemological assumptions from which personality theories are based will be critically examined. It will examine whether some theoretical propositions such as psychoanalysis, social learning, and humanistic theory develop an explicit personality theory. It will compare how the category of personality was constructed as a coherent and related to biological determinants and how in contemporary theories it is proposed as socially and historically produced, flexible and fluid.

PSIC 3016 - Psychopathology

Three credits. Prerequisites: PSIC 3003 or 3005.

The pathological reactions of oligophrenics, neurotics, and psychotics. Theories and means of research in the study of abnormal behavior. Visits to local institutions for the observation of clinical cases.

PSIC 3017 - Personality Measurement

Three credits. Three hours of reading a week. Prerequisite: PSIC 3003 or 3005.

Examination of techniques used to measure adaptation, intelligence, attitudes, emotional stability, motivation, and character; the nature and status of projective techniques, questionnaires, rating scales, etc. Demonstrations, administration and interpretation of tests are provided.

PSIC 3025 - Human Development

Three credits. Three hours of lectures a week. Prerequisites: PSIC 3003 or 3005.

Study of human development from conception to death. Particular emphasis will be given to interpersonal influences and processes. Cognitive and motivational. Theories of learning, cognitive and psychodynamic development will be used as bases.

PSIC 3026 - Psychology of Human Development II: Adult Stages and Aging

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

The course covers the adult and late stages of human development. Emphasis is placed on the aging processes and their social implications.

PSIC 3046 - History of Psychology

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

Comparative study of the theories, methods and concepts of psychology, especially new trends. The thought and works of psychologists representative of the different schools of Aristotle, Wundt, Freud, etc., will be studied. 3046

PSIC 3048 - Group Dynamics

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

Study of the structure and functioning of groups, interaction within groups, and leadership in groups. Attention will be paid to the important contributions, both theoretical and methodological, made in this field.

PSIC 3049 - Humanistic Psychology

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

Consideration of the most important topics covered by contemporary thinkers in the area of the application of experimentation, past and present, to concerns concerning modern man. The course will consist of lectures, reports and research, so that the student acquires a point of view that harmonizes with a new look at the humanistic aspects of the study of man.

PSIC 3055 - Political Psychology

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

Topics related to the application of psychological knowledge to political phenomena.

PSIC 3057 - Introduction to Test Construction

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

This course covers elementary principles of test construction. The following topics are included: job analysis, performance thesis design, question formulation, question analysis, some concepts of reliability and validity.

PSIC 3058 - The Psychology of Creative Expression

Three credits. Three hours of lecture a week. Prerequisite: PSIC 3005 and 3115.

Analysis and critical study of the concept of creative expression in the arts and applied sciences from the psychoanalytical, existential and behavioral point of view.

PSIC 3059 - Psychology of Religious Phenomena

Three credits. Three hours of reading a week. Prerequisites: PSIC 3006.

The course aims to explore the nature of religious phenomena from a psychological point of view. A study of the history of the psychology of religion and its methodology that will lead to the exploration of two tendencies: religion as human alienation and the positive aspect of religion in human development. Within

this general framework, the student will have the opportunity to analyze the dynamics of the religious phenomenon within the Puerto Rican personality.

PSIC 3065 - Psychology of Motivation Three credits.

Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

The course will explore the nature and scope of research in several of the most important areas in the study of human motivation, emphasizing the issues and controversial points involved in the structure of motivation theory. Research papers chosen for this purpose will be discussed and critically evaluated.

PSIC 3066 - Interview Techniques

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

The course aims to familiarize and prepare students with the various techniques of gathering information through individual and group interviews.

PSIC 3067 - Introduction to Community Psychology

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005, 3006.

The course aims to equip the student with the basic knowledge regarding the meanings, history and data related to the area of community psychology.

PSIC 3068 - Psychosocial Theories of Drug Addiction

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

A detailed presentation of the main psychosocial theories that purport to explain the phenomenon of drug addiction. Particular attention will be given to exploring the usefulness of these approaches to understanding the problems of addicts in Puerto Rico. The consequences of the different theories for the psychologist's work of help will be discussed.

PSIC 3076 - Psychopharmacological and Neurophysiological Aspects Related to Drug Use and Abuse

Three credits. Three hours of lecture a week. Prerequisite: PRIC 3003 or PSIC 3005.

This course is an interdisciplinary one that brings together the fields of neurobiology, pharmacology, psychology and medicine with the purpose of offering a comprehensive approach to the different fundamentals of drug addiction. During the course, the psychopharmacological and neurophysiological bases of the effects of the various drugs of abuse on the organization and functioning of the nervous system and human behavior will be explained in detail. In addition, a brief historical overview of drug use through the centuries will be presented. The most recent treatment alternatives available for various types of drug dependence will also be discussed in this course.

PSIC 3077 - Counseling with Drug Addicts I

Two credits. Three hours of lecture a week. Prerequisites: PSIC 3068.

It will focus on the conceptualization of the helping relationship from multiple perspectives and on the development of basic skills in counseling with drug addicts.

PSIC 3078 - Laboratory in Counseling for Drug Addicts

A credit. Two hours of lab time per week. Prerequisite: Concurrent with PSIC 3077.

Laboratory that will provide practical exercises in the implementation of specific skills of counseling with drug addicts.

PSIC3079 - Addiction Counseling Internship

Three credits. Eight hours of practice and three hours of supervision per week. Prerequisite: PSIC 3077 and 3078.

It will be aimed at providing the student with follow-up and expansion in the fundamental skills in the art and science of individual counseling with drug addicts in real treatment scenarios. The primary emphasis will be on clients referred for drug use counseling. There will be three hours of supervision per week divided into two parts: the first will consider case presentations as well as conceptual discussions; the second will be directed to individual supervision. In addition to the three hours of supervision per week, the student will have eight hours of practice at a center or agency where drug addicts receive treatment.

PSIC 3088 - Psychological Analysis of Social and Cultural Changes in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005, 3006, SOCI 3245. Examination of sociocultural change in the Puerto Rican environment from the psychological point of view.

The basic processes of interaction involved will be considered in relation to learning, motivation and social perception, highlighting changes in values, attitudes, expectations and the role of communication in social change.

PSIC 3095 - Psychosocial Analysis of the Story in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: Six credits in psychology or sociology or professor's permission.

Examination of the Puerto Rican short story, which, as a product of the reciprocal interaction of the artist and his historical and sociocultural milieu, is rich in contents, interpretations and psychosocial hypotheses. Theoretical and methodological contributions from psycholinguistics and culture and personality studies will be particularly useful.

PSIC 3097 - Controversial Topics in Modern Psychology

Three credits. Three hours of lecture a week. Prerequisite: Nine credits in psychology.

Critical Discussion of Controversial Topics in Contemporary Psychological Thought. The following topics will be included: learning, creativity, motivation, personality, the ethical conception of man by the psychologist and others.

PSIC 3098 - Cognitive Learning of the Learning Human

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005, 3025.

Analysis of theories and main findings of learning in human beings. Special emphasis will be placed on the child's cognitive development and the child's relationship with learning. In addition to examining the approaches that are conventionally considered to be most prevalent, particular attention will be given to the contributions of Ausubel, Bruner, Guarne, Piaget, and Freire. The relevance of approaches and theories on learning and teaching will be an integral part of the course.

PSIC 3105 - Analysis of Classical Texts in Psychology

Three credits. Three hours of lecture a week. Prerequisite: PSIC3003 or 3005, 3015.

Analysis of articles and vital selections from the selected works of prominent psychologists, from the origins of the discipline to the present. The authors' orientations will be examined and provision will be made for an integration of the knowledge acquired.

PSIC 3106 - Psychobiological Basis of Emotion

Three credits. Three hours of lecture a week. Prerequisite: PSIC 4025, 4026.

Analysis and critical discussion of recent studies in the area of emotion from the psychophysiological point of view. It includes discussion of the biological basis of emotions, such as aggression, pleasure, and pain, among others.

PSIC 3125 - Research Practice

Three credits. Three hours of lecture a week. Prerequisite: PSIC 3003.

The student will participate in all stages of a faculty research project. This will include literature review, instrument design, data collection, analysis, and report writing.

PSIC 3126 - Advanced Research Practice

Three credits. Three hours of lectures a week. Prerequisites: PSIC 3125.

Participation in the advanced stages of a research project by a professor in charge of a research team. The course may be repeated once.

PSIC 4001 - Research Methodology in Psychology

Three credits. Three hours of lecture and two hours of laboratory time per week. Prerequisites: PSIC 3003 and CISO 3155.

Discussion and function of the notion of paradigm in scientific research and its meaning in the development of psychological knowledge. Critical analysis of the structure and process of research in Psychology. Taxonomy of accumulated psychological knowledge as a starting point for the elaboration of research projects. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 4002 - Research Methodology in Psychology II

Three credits. Two hours of lecture and two hours of lab per week.

Prerequisite: PSIC 4001.

Substantiated presentation, starting from the first course, of psychological research designs. Assuming scientific research as a relationship between theoretical field and observations, the most commonly used methods and techniques in each type of design are studied: functional, structural, phenomenological and dialectical, with special emphasis on experimental and quasi-experimental designs. Replaces PSIC 4018.
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PSIC 4007 - Practice in Abnormal Psychology

Three credits. Three hours of lecture a week. Prerequisite: PSIC 3016.

Familiarize students with the work done directly with people suffering from conduct disorders in both psychiatric and educational institutions. Provides direct observation experiences, as well as administering tests and participating in staff meetings, when possible.

PSIC 4009 - Industrial Psychology

Three credits. Three hours of lecture a week.

Study of psychological techniques and their application to the field of industry and business. It includes, among other topics: procedures for the promotion, promotion and selection of employees, study of psychological factors that contribute to efficiency in a commercial and industrial organization.

PSIC 4025 - Biosociology

Three credits. Three hours of lecture a week. Prerequisite: PSIC 3003 or PSIC 3005.

Introduction to the study of the biological basis of various psychological functions and human behavior. Historical aspects of the discipline, structure, and functioning of the nervous system and its relationship to the psychological phenomena of sensation, perception, learning, memory, motivation, and emotion are covered. Special attention is given to regional functions
y cortical, as well as the organization of movement.

PSIC 4026 - Biosociology Laboratory

A credit. Two hours of lab time per week. Prerequisite: PSIC 3003 or PSIC 3005.

Its purpose is to facilitate the understanding and application of the topics to be discussed in the PSIC 4025 course. Students will be able to gain knowledge about the fundamentals of biosociology and its relevance to psychology through demonstrations, discussion of scientific articles, and other resources. The biological, anatomical and physiological foundations of the nervous system are discussed. Topics such as sensory systems, motivational systems, learning, memory, psychopharmacology and psychopathology are worked on in the laboratory.

PSIC 4027 - Psychology of Learning

Two credits. Three hours of lecture a week. Prerequisites: PSIC 3003, PSIC 3005.

A study of the nature of the learning process, the various types of learning, the factors involved in this process, and the problems that arise in the learning process.

Pose the theories

PSIC 4028 - Laboratory in Psychology of Learning

A credit. Two hours of lab time per week. Prerequisite: Concurrent with PSIC 4027.

The laboratory aims to familiarize the student with the basic methods and techniques in the field of learning research. Demonstrations and experiments will be carried out to this end. Simple conditioning experiments with animals and controlled human learning experiments will be done. Emphasis will be placed on experimental design, data reduction, and writing research reports.

PSIC 4029 - Psychology of Perception

Two credits. Three hours of lecture a week. Prerequisites: PSIC 3003, 3005, 4025 and 4026 or their equivalents.

Study of perceptual processes including theories of perception, principles of psychophysics simple experiments on the effects of perception on the behavior of individuals and groups.

PSIC 4035 - Psychology of Perception Laboratory

A credit. Two hours of lab time per week. Prerequisite: Concurrent with PSIC 4029.

Laboratory with simple experiments illustrative of the topics covered in the 4029 psychology lectures.

PSIC 4036 - Introduction to Organizational Development

Three credits. Three hours of lecture a week.

The course covers the following: diagnosis of organizations; climate of the same; changes, including planned change and change strategies; interpersonal relations; analysis of conflicts within the organization, focusing on interpersonal and intergroup conflicts; personal development of the individual. In this aspect, topics such as: improving as a participant and as a leader will be discussed.

PSIC 4037 - Development of Assessment Instruments

Two credits. Two hours of lecture per week. Prerequisite: PSIC 3003 or 3005, 4025, CISO 3155.

Construction of tests, scales and questionnaires for psychological evaluation.

PSIC 4038 - Laboratory in Development of Assessment Instruments

A credit. Three hours of lab time a week. Prerequisite: Concurrent with PSIC 4037.

Laboratory and research experiences in the development of tests, scales, and forms.

PSIC 4045 - Mental Health Practices with a Preventive and Community Approach

Three credits. Prerequisites: PSIC 3003 or 3005, 3006 and interview with the teacher.

For six weeks, the course will meet three hours a week for discussion of readings, training in techniques and offering the theoretical base. The remainder of the semester will be devoted to 10 hours per week of supervised practice. This seminar will explore theories, issues, and approaches to community mental health with a preventive approach. After these theoretical and conceptual foundations, supervised practice will be carried out in mental health centers and communities.

PSIC 4055 - Introduction to Behavior Modification

Two credits. Two hours of lecture per week. Prerequisite: PSIC 3003.

Critical analysis and application of behavior modification principles derived from operant conditioning and social learning theories.

PSIC 4056 - Laboratory: Introduction to Behavior Modification

A credit. Three hours of lab time a week. Prerequisite: Concurrent with PSIC 4055.

Laboratory exercises among students with the purpose of analyzing the most basic principles of behavior change. Subsequently, these exercises are carried out with people who receive services in community institutions, such as daycare centers, schools, and others.

PSIC 4057 - Seminar on Urban Planning and its Psychosocial Problems

Three credits. Three hours of lecture a week. Prerequisite: PSIC 3006 and permission provided to the student by the teacher.

A formal research experience in the area of psychosocial problems associated with contemporary urbanism. During the semester, one or more research topics in this area will be selected (e.g., aggression, criminality, environmental degradation, drug dependence, alienation, diffusion of responsibility, poverty, etc.). The research problem will be defined, a research methodology will be developed, the study will be conducted, the data will be analyzed, and a research report will be written.

PSIC 4068 - Independent Study in Psychology

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005, 4001, CISO 3155.

The course can be taken 2 times with different topics. The course consists of the completion of studies or psychological research carried out by groups of students or a single student with a teacher as a tutor. The purpose will be to encourage the investigation of problems of modern psychology through the use of the techniques of the social scientist's research techniques. The topics and hours of consultation will be determined by mutual agreement of the teacher and the student. A thesis is required from each student at the end of the course.

PSIC 4075 - Learning Disabilities

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005, 4027, 4028.

The primary focus of this course is towards the child who needs specialized attention in his or her education. The emphasis is aimed at providing the student with a frame of reference with which to deal with some of the problems of preschoolers in nursery school or preschool programs.

PSIC 4077 - Psychological Aspects of Occupations

Three credits. Three hours of lecture a week. Prerequisite: PSIC 3005.

Psychological aspects of occupations, particularly demands in terms of interests, skills, values, personality, lifestyles. The student will take tests and make self-assessments to relate to occupations.

PSIC 4080 - Introduction to Human Sexuality: Bio-psychosocial Aspects

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

Overview of human sexuality. Processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective and within its social dimension. The student will examine some sexual problems of society.

PSIC 4087 - Practice in Services

Three credits. Three hours of practice a week. Prerequisites: PSIC 3003 or 3005 and teacher's permission.

Students will participate in the work of a direct and/or preventive service agency, under supervision.

PSIC 4115 - Homosexuality and Lesbianism: Their Social Construction

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

Starting from the framework of social constructionism, the models that explain homosexuality and lesbianism, the attitudes and social norms that surround it, and the "gay" liberation movement and its current status are presented and critically analyzed. Its relevance to the Puerto Rican reality is highlighted.

PSIC 4125 - Cognitive Psychology

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

The study of theories, research methods, and applications of higher mental processes. The epistemological premises of the models, controversial areas, and importance for psychology are analyzed.

PSIC 4135 - Organizational Psychology

Three credits. Three hours of lecture a week.

Analysis of human behavior in organizations with emphasis on psychosocial factors. Theories and models are presented that attempt to explain the patterns of human relations in different organizational structures and processes.

PSIC 4505 - Thesis Seminar

Three credits. Seven hours of seminar per week. Prerequisite: Teacher's permission.

Completion of the initial stages of an independent research work under the supervision of a faculty member that culminates in a thesis proposal to be evaluated by three professors.

PSIC 4506 - Thesis Project

A credit. Seven hours of thesis work per week. Prerequisite: PSIC 4505.

Thesis research that includes the implementation of a project, compilation of information, interpretation, writing of initial drafts, and the presentation and defense of the thesis.

PSIC 5000 - Cyberculture: Emerging Culture from Computer-Mediated Communication

Three credits. Three hours of lecture a week.

This course examines contemporary debates around cyberculture or emerging culture from computer-mediated communication. The discussion is developed from three axes of discussion: electronic writing, the physical body and the social body that results from human-computer hybridization.

PSIC 5003 - Biography and Society: Life Stories in Psychosocial Analysis

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005, 3006.

Introduction to the theory and production of life stories for psychosocial analysis. Theoretical assumptions, salient methodological problems, as well as the uses of these materials in the different disciplines of social science (psychology, ethnology, psychiatry, sociology, and history) will be examined. Special attention will be given to the insertion of the individual in the sociocultural context through the reading and discussion of texts. Emphasis will be placed on social interactions.

PSIC 5005 - Community Development and Mobilization

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

Different strategies and models of community development together with Latin America.

PSIC 5006 - History of Insanity and Psychiatric Practices

Three credits. Three hours of lecture a week. Prerequisite: PSIC 3115.

Historical view of the development of psychiatric knowledge and its relationship with institutional practices.

PSIC 5007 - Psychology of Prevention

Three credits. Three hours of lecture a week. Prerequisite: Undergraduate students must be fourth-year students with permission from the professor.

An overview of the efforts made in the discipline of psychology on the problem of prevention of problems broadly defined as psychosocial. The ways in which prevention has been conceptualized will be critically examined and the effectiveness of its interventions will be evaluated. We will illustrate these issues with interventions in Puerto Rico and other countries in the area of mental health, school, and criminal justice programs.

PSIC 5008 - Introduction to Semiotics

Three credits. Three hours of lecture a week. Prerequisite: PSIC 3006.

Analysis, at an introductory level, of the theory of the sign, of the genealogy and structure of linguistic semiosis, of the semiotics of text, of non-verbal communication, and of aesthetics and visual communication. It explores the semiotic relationship with psychology.

PSIC 5009 - Psychology of Cinema

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

It studies individual and collective ways of life and aspirations. The search for meanings and the acceptance or resistance to modes of social order.

PSIC 5015 - Introduction to Freud's Seminal Texts: A Critical Reading

Three credits. Three hours of lecture a week. Prerequisites: PSIC 3003 or 3005.

Reading and critical analysis of the fundamental texts of S. Freud. The central principles and concepts of psychoanalytic theory will be discussed in order to justify the value and limits of the contribution to the understanding of the human. The aim is to clarify the epistemological value of psychoanalysis in order to situate it in the panorama of knowledge.

RELA 3005 - Work and Society: An Overview

Three credits. Three hours of lectures a week. Prerequisite: Permission from the department director.

Explanation and discussion of industrial relations with a comparative multinational approach, but with attention to the situation of Puerto Rico in particular: origins of industrial society; labour market development; goals of government, management, and organized labor; theories of industrial conflict; the political and economic dimensions of labour-management relations (legislative norms and collective bargaining); institutionalization of conflict (grievance and arbitration procedure); Policy Issues in Industrial Relations.

RELA 3015 - Human Behaviour in the World of Work

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Discussion of the problems of human relations in modern industry with special consideration of the social and psychological factors involved in the behavior of the individual at work; the problems and conflicts

inherent in the employment relationship and the interaction of the individual with the various forms of organization and production. The contribution made by the social sciences in areas such as conflict resolution and encouragement of collaboration will be examined, as well as studies on attitudes, opinions, motivation, etc.

RELA 3025 - History of the Workers' Movements

Three credits. Three hours of lecture a week. Prerequisite: Permission from the department director.

Study of the living and working conditions of the working class in different historical periods; development of workers' efforts to achieve a greater degree of social justice through different movements and organizations: mutualism, cooperativism, trade unionism, parties and political action; The International Labour Movement and an analysis of the various social, economic and political forces that have shaped and influenced the aims, structure, methods and tactics of the various workers' movements. Special emphasis will be given to the contemporary labor movement, especially in the Western Hemisphere.

RELA 3031 - Business Administration I & II

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

The purpose of this course is to give students of industrial relations a comprehensive view of the organization, structure, and functioning of modern enterprises, so that these students have the general frame of reference from which labor relations develop.

RELA 3032 - Business Administration I & II

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005, RELA 3031.

Its purpose is to give students a complete view of industrial relations on the organization, structure and functioning of modern companies, so that they have the general frame of reference from which labor relations develop.

RELA 3035 - History of the Puerto Rican Labor Movement

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

An in-depth study of workers' organizations and their socio-economic and political impact on Puerto Rican society. The current problems confronting the workers' movement from 1880 to the present will be discussed.

RELA 3045 - Labor Relations Laws

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

An exposition of the basic problems of the worker-employer relationship and of the official relationship to these problems evidenced by laws and judicial decisions, highlighting the evolving and changing nature of this reaction to the growth, development and strength of trade union doctrine and action. It includes the study of the positive law in force in the field of labour relations and collective bargaining at both the federal and island levels.

RELA 3055 - Labor Protection Legislation

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

The social and economic problems of workers are studied: hours, wages and conditions of employment; the evolution of public policy in Puerto Rico and the United States in relation to these problems; legislation on hours, wages, special compensation, industrial accidents, protection of children and women, job security, etc. This course does not discuss the legislation governing collective labour relations and employers' disputes.

RELA 3065 - Collective Bargaining

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

Study of the economic basis of collective bargaining (Fair Labor Standards Act for Industries in Interstate Commerce and Puerto Rico Minimum Wage Act for Local Industries); existing social legislation with regard to the fringe benefit part of collective bargaining; the general legislation in force regarding the right of workers to organize and bargain collectively with their employers and the use of collective agreements as a matter of study, analysis and comparison.

RELA 3075 - Economics of Work

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005 and ECON 3005.

Economic problems of the labour market such as wages, hours, working conditions, employment, unemployment, etc.

RELA 3085 - Introduction to Labor Research and Statistical Methods

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.

The objective of this course is to introduce students to the methodological concepts of the social sciences with emphasis on their application to the fields of human resources and labor-management relations. Social statistics are seen as a necessary tool for analysing and understanding labour market mechanisms, labour-management relations and human resources policies and programmes.

RELA 3095 - Structure, Organization, Administration and Governance of Workers' Unions

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

Students are familiarized with the fundamental elements of government and administration of labor unions. Students are encouraged to think about the general problems of union governance and administration. It also aims to exercise the students' thinking about the relationship between an adequate and appropriate administrative structure or organization, its efficient administration, and the objectives that serve as the foundations of the union. Ways or means of fostering attitudes and human relations of cooperation in the day-to-day administration of unions through democratic procedures are highlighted. The multiple relationships between the union, the community, and the state are considered.

RELA 3105 - Trajectory of the North American Labor Movement

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.

A study of the working conditions of the American working class at different stages of American history. Analysis of the development of these workers' efforts to achieve social justice through different means, as well as their different social, economic and political forces that have influenced both the objectives, structure, methods and tactics of this movement.

RELA 3115 - Introduction to Human Resources Analysis, Policy, and Programs

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

It will examine the major events that have influenced patterns of labor supply and demand that promoted the formulation of human resources policy in the United States and Puerto Rico. They will become familiar with the concepts and statistics used by the Bureau of Labor Statistics as instruments to analyze the problem of human resources, as well as the policies and programs developed to deal with it. An analysis is made of income maintenance programs for the labor force and for those groups that are unemployed, and the human resources policies and programs developed from the 1960s to the present.

RELA 3135 - Occupational Health and Safety Education

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

The social and economic effects of occupational diseases and accidents in Puerto Rico and other countries will be analyzed. The fundamental principles of laws and regulations on occupational safety and health will be studied and explained. Particular attention will be given to developing awareness of the need to reduce the risks of accidents and control adverse health effects in the workplace.

RELA 3145 - History of the Latin American Labor Movement

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

Development of the Latin American labor movement from its formation in the second half of the nineteenth century to the present.

RELA 3150 - Ecology, Work and Society

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

Study of the ecological pressures caused by the different industrialization processes, as well as the role of workers within them and their link with organized groups in society that try to defend the environment and health. Analysis of the interrelationships between government agencies that have jurisdiction over these policy areas and civic and labor organizations that pose some kind of resistance to the dominant industrial and political sectors. Examination of the problems of power and social counter-powers that come into conflict as a result of the struggle for the environment at the level of the whole society.

RELA 3155 - Introduction to Working Women's Studies in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121- 3122.

Study of the participation of working women in workers' exploits in Puerto Rico, from the second half of the twentieth century to the present.

RELA 3165 - Assault and Violence in the Workplace

Three credits. Three hours of discussion a week. Prerequisites: CISO 3121, 3122. RELA 3005, 3015, 3031.

Discussion of the phenomenon of aggression and violence in the workplace. The processes and organizational dynamics that enable aggression and violence will be studied. Its impact on the quality of life of workers, the efficiency, effectiveness and social responsibility of organizations will be analyzed. It will examine the challenges posed by proactively addressing the circumstances that enable such behaviour at the individual, group and organizational levels for modern organizations and the union. A sample of bills, laws, regulations and programs that promote the prevention and effective management of related conflicts in work contexts where aggressive or violent behaviors are exhibited will be considered. Emphasis will be placed on the relevance of the systematic approach to the analysis of the variables associated with this phenomenon, particularly from the perspective of industrial/organizational psychology, social psychology and labor law.

RELA 4005 - Seminar Workshop on Labor-Management Relations

Four credits. Three hours of lecture per week and 3 seminars per week. Prerequisite: for pedagogy students and school teachers.

This seminar-workshop is designed to provide teachers of public instruction with the fundamentals of industrial and labor-management relations, including the trajectory and development of contemporary labor movements in their social, economic, cultural and political aspects; labour law, collective bargaining, administration of agreements and dispute resolution. In addition, a laboratory will be offered for the preparation of teaching materials, basic readings and the teaching and use of modern teaching techniques for the transmission of acquired knowledge to students in public schools.

RELA 4006 - Modern Industry and Industrial and Labor-Management Relations

Three credits. Three hours of lecture a week.

Introduction to Industrial and Labor-Management Relations in Modern Industrial Society. In addition, it includes an examination of the nature of industrial society and the organization of modern work, including concepts and theories of organization and leadership. The place of industrial and labor-management relations functions in the organization will be analyzed
y the general nature of human resource management practice and its development.

RELA 4007 - Group Leadership and Action

Three credits. Three hours of lecture a week. Prerequisite: Consent of the department director.

A theoretical course that attempts to involve participants in the study, observation and analysis of the emergence, development and activity in small working groups (committees, boards, directives, councils, councils) in comparison with the reality of the functioning of the masses or large groups (assemblies, concentrations, crowds). It attempts to impart knowledge and skills that are required to work effectively with topics such as management philosophies, how to obtain competent officials, leadership roles, why groups fail, group conflict, mass reactions, etc.

RELA 4008 - Syndicalism and Cooperativism

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

The "pros and cons" of the union-cooperative conception in Puerto Rico are analyzed in the light of the evolution of both movements, without falling into contempt for that historical affinity that some pretend to ignore. Both movements cannot afford certain extrinsic relations when the historical reason is not one of self-exclusion, but of rapprochement.

RELA 4015 - Philosophical Foundations of Labor Law

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

Origins and philosophical foundations of labor law in the world, United States and Puerto Rico.

RELA 4016 - Seminar on Labor-Management Conflicts

Three credits.

Discussion and analysis of some conflictive areas in labor-management relations. Labor-management conflicts such as: strikes and pickets, their modalities, objectives and consequences; The lockout, its objectives and consequences. Remedies and mechanisms available to resolve and prevent labor-management conflicts.

RELA 4025 - Seminar on Labor Relations in Public Employment

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

Discussion of labour relations in government employment including analysis of policy formulation; differences and similarities between the private and public sectors; the problems that collective bargaining poses to theories of sovereignty and delegation of governmental powers; factors that have contributed to union organizing in public employment; the determination of appropriate units; the areas of negotiability; the use of strike action and disruption of public services; the administration of agreements and the difficulty posed by arbitration for the dispersion of governmental powers, and selected aspects such as the conflict between the concept of seniority versus the principle of merit. Discussion of current and projected legislation in Puerto Rico compared with the experience of other countries.

RELA 4035 - Measurement, Conciliation and Arbitration

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

Presentation, discussion and analysis of different systems and methods of mediation, conciliation and arbitration in the field of labor-management relations. It will consider, among others, the historical trajectory of these systems, similarities, differences, and uses of each of these resources for the

rational resolution of labor-management conflicts, voluntary arbitration versus compulsory arbitration, primary arbitration, secondary arbitration, and the positions and functions of organizations such as the Puerto Rico Labor Relations Board, the National Labor Relations Board, the Bureau of Conciliation and Arbitration of the Puerto Rico Department of Labor, and the corresponding agency at the federal level.

RELA 4045 - Practical Laboratory in Labor Relations

Six credits. Meetings and 4 to 6 lab hours per week. Prerequisite: Have met all the requirements for the concentration.

Hands-on experiences in the field of industrial relations will be offered to fourth-year students of the Industrial Relations concentration, observing and participating in the processes of labor-management relations.

RELA 4055 - Seminar on Comparative Industrial Relations Systems in Developed Countries

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

The study of the origins of industrial relations and the analysis of the evolution of comparative systems of industrial relations in developed countries. Discussion of theories of economic development in conjunction with theories of the interaction of labor, management and government in the productive process. Comparison, in general terms, of the different development of workers' movements and industrial relations systems in industrially developed countries. Analysis in particular of the industrial relations systems of certain countries of Western and Eastern Europe, Japan and Australia.

RELA 4065 - Medical Plans and Workers' Health

Three credits. Three hours of lecture a week. Prerequisite: RELA 3005.

A list of what the health plan must offer to union members; its relationship to medical services, hospitals, and other aspects of medical services; cost and quality control, preventive and curative medicine and rehabilitation. The rights of the consumer of medical services; levels of health presented by statistics and prioritization, health education and joint union campaigns to achieve better health for all workers. The student will be trained to recognize what is convenient for the labor movement with respect to health plans and what is harmful. It provides a useful background to the main public health issues.

SOCI 3005 - Criminology

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Critical reflection on society. Emphasis is on historical and crime prevention practices aimed at criminality, and spaces of resistance of various subordinate sectors.

SOCI 3045 - Sociology of Religion

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Reflections on the concept of religious experience. Its expression in ideas in relation to the circumstances surrounding man, to the relations of human beings to each other and to historical life. Emergence of ethical rationalism with the Hebrew prophet. Further manifestations and transformations of this rationalism manifest in the attitude towards magic, tradition, willingness to

innovate, economic conduct and the scientific approach. Comparative analysis between ethical prophecy and exemplary prophecy. Activist intramundane asceticism and contemplative supramundane asceticism. Interweaving of religious ideas and situations. Effects on behavior.

SOCI 3055 - Juvenile Delinquency

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Juvenile delinquency as a social phenomenon, its incidence. Analysis of factors influencing crime. The role of the police, courts, control and prevention agencies; probation and parole system; influence of individual groups and the community in the prevention and treatment of juvenile offenders. Discussion of cases, visits to institutions for minors and conferences by authorities in the field.

SOCI 3065 - Sociological Foundations of Marxism

Three credits. Three hours of lecture a week. Prerequisites: SOCI 3245.

Discussion of the validity of Marxist thought in contemporary culture. Debates about the really existing socialism and its collapse, as well as the possible reconstitutions of Marxism. Emphasis on Marxism as an international movement composed of multiple intellectual endeavors in politics and culture.

SOCI 3076 - The Development of Sociology and Social Sciences and the Political Process in Puerto Rico

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Study of the main moments in the relationship between the social sciences, particularly sociology, and the Puerto Rican political process, from the late nineteenth century to the present.

SOCI 3077 - The Sociological and Social Scientific Thought of Eugenio María de Hostos

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: SOCI 3245.

Analysis of Hostos' contribution to the development of the social sciences, particularly sociology. Intellectual evolution through different stages of its maturation process.

SOCI 3085 - Sociology of Culture

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Examination of various theoretical perspectives on the concept of culture. Discussion of the relationship between high culture and popular culture; tradition and innovation; artists, critics and audiences; Text and context. Application to various genres such as visual arts, literature, music, and sports.

SOCI 3095 - Sociology of Work

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Definitions of the concept of work, both paid and unpaid. Approaches to different aspects of the labour market, such as occupational stratification and mobility, wage inequality and organisational behaviour. Discussion of the effects of globalization on labor processes.

SOCI 3105 - Social Stratification

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Main Social and Economic Discourse of the Post-System theories of social stratification. Articulation of classes with other social divisions, such as gender, race, and ethnicity.

SOCI 3115 - Social Structure and Ideology

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Diagnosis of the contemporary era inspired by the redefinition of ideology in discursive regimes. Examination of the Place of the Intelligentsia, the Re-Edition of the Pagan Tradition and prophetic in the present society of the spectacle. Balance of the postmodern condition, ruptures, continuity and paradoxes in the spheres of subjectivity and consumption.

SOCI 3135 - Sociology of Literature

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Overview of the main theories on the social meaning of literature. Examination of the relationship between literary research and sociology of knowledge. Discussion of the problems of the sociological study of the novel.

SOCI 3165 - Sociology of Gender and Sexuality

Three credits. Three hours of lecture a week. Prerequisite: SOCI3245.

Discussion of the main critical theories and the social construction of categories around gender and sexuality in contemporary society. Analysis of the ways in which gender and sexuality coincide in social institutions.

SOCI 3175 - Latin American Sociology

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Examination of the main works of sociological thought on the region. Discussion of how social-scientific paradigms articulate power relations and how alternative knowledge emerges from Latin America.

SOCI 3185 - Penology

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Historical development, theory and philosophy of the penal system. Correctional Administration Analysis y the treatment of the population confined in government institutions.

SOCI 3195 - Sociology of Economic and Social Development

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245, CISO 3121, 3122.

Critical analysis of the concept of development in economics and other social sciences. Discussion of various dominant discourses, including liberal, neoclassical, and Marxist. Examination of the relationship between development, private property, education, planning, urbanization and globalization.

SOCI 3235 - Forensic Sociology

Three credits. Three hours of lecture and four hours of lab per week.

Prerequisite: Principal's permission.

Analysis of social and legal variables in the study of criminal behavior. Application and relevance of sociological theories, methods and data to the justice system.

SOCI 3245 - Principles of Sociology

Three credits. Three hours of lecture a week.

Introduction to the basic concepts and diverse approaches of the discipline. Analytical, theoretical, and methodological tools to understand and analyze society, its institutions, and processes of formation and change.

SOCI 3267 - Sociological Research Techniques

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

Discussion of various quantitative and qualitative strategies, including surveys and interviews. Data analysis and interpretation, as well as the ethics and politics of sociological research. Emphasis on the critical articulation between research theories, methods, and techniques. Practice the techniques by carrying out a project.

SOCI 3275 - Sociology of Behavior Variation

Three credits. Three hours of lecture a week. Prerequisites: SOCI 3245.

Analysis of behaviors defined as deviant from the dominant moral point of view in contemporary societies. Discussion of historical and social circumstances that contribute to certain practices being criminalized or stigmatized.

SOCI 3295 - History of Sociological Thought

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Study of the most influential works for sociological work, from the classical period in Greece to the present.

SOCI 3305 - Demographics

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Comprehensive study of the different aspects of population growth: analysis of world population growth; theories of population growth; the birth rate and natural increase; Population norms, composition of population emigration. Special importance is given to population growth in the United States and Puerto Rico.

SOCI 3315 - Sociology of the Family

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Examination of the various theoretical definitions of family and kinship through reflections or observations of contemporary society. Debates on the structures and functions of families, the political economy of the domestic unit, and the social construction of gender and sexuality. Discussion of the complexity and diversity of family practices and attempts to define a normative family.

SOCI 3325 - Urban Sociology

Three credits. Three hours of lecture a week.

Study of sociological theories about the city. Emphasis on the process of urbanization in contemporary societies. Examination of the consequences of the technological revolution and urban social movements.

SOCI 3335 - Social Problems

Three credits. Three hours of lecture a week.

Analysis of major social problems in the light of sociological theories and concepts. Critical examination of the generation, meaning and alternative proposals to the so-called contemporary social problems.

SOCI 3355 - Populations and Problems in Latin America

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Study of the formation of Latin American societies, with their regional and national variations. Emphasis on the social, cultural, economic, and political outcomes of colonization, transculturation, urbanization, and industrialization.

SOCI 3385 - Sociology of Occupations

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Examination of the major changes in the composition of the workforce throughout the 20th and early 21st centuries, their relationship to the economy, and the implications of the transition to the so-called post-industrial society.

SOCI 3395 - Sociology of Protest Movements

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Study of the main social movements oriented towards the affirmation and defense of civil and human rights, identity, education, peace and religion.

SOCI 3405 - Utopian Thought

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Study of the main historical manifestations of thought about imagined forms of social organization; of the dialectic that strains its relations with actually existing societies; and the nature, functions, variants and consequences of utopian thinking in contemporary societies.

SOCI 4005 - Sociological Theory

Three credits. Three hours of lecture a week.

Systematic study of classical sociological theories (late 19th and early 20th centuries) and their applicability in contemporary research. Analysis of ideas in their social, intellectual context of production. Emphasis on the formation and instrumentation of fundamental concepts and their explanatory or interpretative scope.

and

SOCI 4008 - Sociological Topics

Three credits. Three hours of lecture a week. Prerequisites: SOCI 3245, CISO 3121-3122.

The emphasis of this course is the investigation and analysis of particular topics in the sociological discipline. These topics may be theoretical, methodological, thematic, regional and geographical, and/or related to the subspecialties of the discipline. The topics, which vary each semester, are analyzed by the student through supervised research and presentations. The student may enroll in the course on two occasions under different topics.

SOCI 4025 - Sociology of the Mentally Ill

Three credits. Three hours of lecture and experience in a mental institution one afternoon a week. Prerequisite: SOCI 3245.

Analysis of behaviors classified as mental illnesses. Emphasis on the creation of the categories of illness and mental health, the practices and institutions generated around such labels, and the sociocultural reactions to people considered mentally ill.

SOCI 4026 - Sociology of Racism and Social Violence

Three credits. One hour of lecture, one hour of discussion, and one hour of seminar per week. Prerequisites: SOCI 3245.

Examination of various types of behaviors based on ideas of 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, revolts, protests, and riots.

SOCI 4035 - Sociology of Knowledge

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Study of the fundamental problems of the social determination of knowledge through the discussion of the main works on the subject. Emphasis on the processes of cultural creation, political thought, intelligence formation, and ideological manipulation.

SOCI 4045 - Race and Cultural Relations in the Hispanic Caribbean: Cuba, Puerto Rico and Santo Domingo in the Nineteenth Century

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Slavery and race relations in these three societies of the Hispanic Caribbean lend themselves to a comparative study that attempts to isolate the factors that may explain the differences and parallels between the three countries. The fact that slavery was abolished much earlier in the Dominican Republic than in the other two societies, while the sugar economy began to develop later in that country, makes it possible to study the links between slavery and race relations and the connection between the sugar boom and race relations.

SOCI 4105 - Sociology of Health

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Historical development and economic and political bases of medicine as a science and social system. Discussion of the interrelationship between demographic and social factors with diseases, as well as

between the people who provide and receive health services in various contemporary societies.

SOCI 4115 - Contemporary Sociology

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Study of the main trends that characterize contemporary societies, within the framework of tensions between local populations and the global economy. Emphasis on the social, political and economic correlates of the division of labor and the organization of bureaucracies on a global scale, especially during the second half of the twentieth century and the beginning of the twenty-first.

SOCI 4155 - Social and Cultural Change

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Analysis of the principles and theories of collective transformations. Discussion of the social and cultural effects of major economic and technological changes since the nineteenth century.

SOCI 4170 - Sociology of Violence, Aggression and Dangerousness

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Study of behavior considered antisocial by the dominant discourse in contemporary societies. Emphasis on sociocultural perceptions and understandings and on the formulation and implementation of public policies to control aggression.

SOCI 4175 - Research Seminar: Sociology of Gender

Three credits. Three hours of lecture and research per week. Prerequisite: SOCI 3165, CISO 3121, 3122.

Analysis and discussion of gender-related issues, according to the specialty of the faculty member in charge of the discourse.

SOCI 4186 - Computer Techniques in Sociological Research: Scope and Limits

Three credits. Three hours of lecture a week. Prerequisites: SOCI 3245, 3267.4005, CISO 3121.3122.

Use of the computer in quantitative research based on existing databases. Critical evaluation of quantitative techniques and their limits by examining various theoretical, methodological and empirical approaches. Integration of theory, methodology and technique through a quantitative research project. Introduction to bibliographic research through the use of online catalogs, search engines, and electronic collections of journals and texts.

SOCI 4187 - Sociological Research Methodology

Three credits. Three hours of lecture a week. Prerequisites: SOCI 3245, SOCI 3267, CISO 3121, 3122.

Examination of the construction of the object of study, the use of various methods, the causality model and the claim of objectivity in the different paradigms that constitute scientific practices in sociology. Elaboration of the connections between epistemology, theory, methodology and research.

SOCI 4190 - Sociology of the State

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Study and balance of the main theories of the contemporary state. Starting from an analysis of biopower, emphasis is placed on explaining governmentality, the weakening of the nation-state and the democratic imaginary. Consideration of the present extreme logics of state power, such as genocide and fundamentalism in the crucible of globalization.

SOCI 4205 - Women, Work and Conscience

Three credits. Three hours of lecture a week. Prerequisite: SOCI 3245.

Analysis of the relations between class structure, sexual division of labor and female consciousness. Emphasis on the effect of the organization of domestic work and wage labor on women's consciousness in each social class.

SOCI 4215 - Sociological Analysis of the Contemporary Caribbean.

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121,3122.

Discussion of key texts for Caribbean social thought, dedicated to examining the region as a whole, as well as the particular historical processes of each of the countries.

SOCI 4225 - Sociological Foundations of Law

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, 3122.

Analysis of the relationship of the law with particular social structures, the historical origins of the subject of law, the evolution of the legal person in specific socio-economic formations, and the nature of legal practice and ideology.

SOCI 4227 - Latino Cultures in the United States

Three credits. Three hours of lecture and discussion per week. Prerequisites: CISO 3121, 3122.

Analysis of the historical origins and contemporary situation of populations of Latin American descent in the United States. Emphasis on the construction and transformation of national identities among immigrants from Latin America and the Caribbean. Discussion of the similarities and differences between the major Latino groups: Mexicans, Puerto Ricans, Cubans, and Dominicans.

SOCI 5009 - Critique of Science from a Gender Perspective

Three credits. Three hours of lecture a week. Prerequisites: SOCI 3245 (principles of sociology) CISO 3121 (introduction to social sciences).

Study of the creation of scientific knowledge and how the production and consumption of this knowledge reflect social inequalities. Examination of the democratic deficit in the science of key concepts and of the application of and resistance against scientific norms since the nineteenth century. Exploration of new paradigms that can respond to these criticisms from a gender perspective.

TSOC 3005 - The Social Welfare System

Three credits. Three hours of lecture a week.

It defines the concepts of social welfare, analyzes the philosophical foundations and its function in contemporary society; the structure of the system in terms of legislation, programs and services and the role of the social worker within this system.

TSOC 3015 - Social Work as a Profession

Three credits. Three hours of lecture a week.

This introductory course examines social work as a socially sanctioned helping profession based on humanistic values, tending to improve social functioning. Emphasis is placed on its generic basis, its social justice-oriented goals, and the dilemmas it faces.

TSOC 3131 - Scientific Research in Social Work I

Three credits. Three hours of lecture a week. Prerequisites: TSOC 3005-The Social Welfare System, TSOC 3015-Social Work as a Profession. Requirements: TSOC 4003-Dynamics of Performance I, CISO 3155-Fundamentals of Statistics.

Discussion of scientific research and its usefulness in building knowledge for social work practice, evaluation of programs and services, and evaluation of professional practice. The scientific method is introduced, as well as premises, methods, techniques, quantitative and qualitative approaches in science. The ethical aspect of the profession is analyzed, particularly those related to its principles and values.

TSOC 3132 - Scientific Research in Social Work II

Three credits. Three hours of lecture a week. Prerequisite: TSOC 3131-Scientific Research in Social Work I. Prerequisite: TSOC 4015-Professional Practice I.

The course deepens the development of knowledge and skills in the construction of instruments, collection, analysis and presentation of data and preparation of final research report through the use of computers and other technologies.

TSOC 4003 - Human Behavior and Social Environment I

Three credits. Three hours of lecture a week. Prerequisite: TSOC 3005 TSOC 3015.

This course is made up of two parts. The first analyzes from a critical perspective the macrosocial theories that influence people's behavior, with a holistic vision, examines human behavior at the macrosocial level (groups, communities, organizations and social movements) from ideological, economic, political and social forces. It considers human diversity in the context of Puerto Rican reality and other geographical contexts. The overall teaching strategy is exploration, conceptualization, and application (RCT). The main specific teaching strategies used are: lectures, analysis of readings, news and documentaries, cooperative learning, discussion of situations, oral presentations, visits to institutions, interviews and use of technological multimedia. This course is a core requirement for bachelor's degree students in social work.

TSOC 4004 - Human Behavior and Social Environment II

Three credits. Three lecture hours per week prerequisites: CISO 3121 and 3122.

Critical analysis of theories of human development in light of biological, sociocultural, psychological, and spiritual factors and how ideological, economic, political, and social forces impact micro behavior. Study of the life course in its processes of preconception, childhood, childhood, puberty, adolescence, young adulthood, middle age, aging and death, and the implications of these in professional practice. The overall teaching strategy is exploration, conceptualization and application (FFS). The main specific teaching strategies used are: lectures, analysis of readings, news and documentaries, cooperative learning, discussion of situations, oral presentations, visits and institutions, interviews and use of technological multimedia. This course is a core requirement for bachelor's degree students in social work.

TSOC 4011 - Generic Approach and Intervention with People in the Family Context I

Three credits. Three hours of lecture a week. Prerequisites: TSOC3005, 3015, 4003, 4004.

Study of the person system in its family context and other systems from the perspective of the generic approach of social work. The main topics of the course are: the generic basis of professional intervention. Use of the self in the process of professional exploration and intervention, communication, interview techniques. Writing histories and applying the generic approach. The social work student is expected to demonstrate competencies in conducting interviews for information gathering and writing social studies. The student will select a social agency to which he/she will approach to learn about the role of the social worker, the services offered, the model of services, their evaluative and ethical basis and the dynamics between social worker and participant in preparation for the laboratory experience that the TSOC 4012 course will have. This is a required course for social work students.

TSOC 4012 - Generic Approach and Intervention with People in the Family Context II

Three credits. Three hours of lecture a week. Prerequisites: TSOC 4011.

The student continues the study of the person in his or her family context and other systems from the perspective of the generic approach to work. It introduces the conceptual and written construction of the weighting, in the elaboration of the design of the intervention plan, emphasizing the strengths of the client system and in the various factors that affect their reality, such as the family and the environment. They will present the models of crisis intervention and task-centered problem solving as other tools for the task. Laboratory experience in a social service agency will offer you the opportunity to link theoretical concepts and practice according to the code of ethics and conceptual body. Experience a minimum of 15 hours of pre-practice will develop your generic skills in the individual intervention process. You will also participate for 6 hours in a writing workshop coordinated with the Center for the Development of Language Skills to improve your skills by responding to the demands of the world of work and the teaching-learning parameters of the department.

TSOC 4015 - Professional Practice I

Three credits. Three hours of lecture a week. Prerequisite: TSOC 3005, 3015 and 4003.

The generic intervention perspective and the problem-solving model are examined, with emphasis on the generic intervention sequence: data analysis, weighting, intervention modality selection, plan implementation, and outcome evaluation. Emphasis is placed on the skills needed in each phase, such as communication, establishing a helping relationship, interviewing, and using helping techniques and strategies.

TSOC 4025 - Professional Practice with Groups and the Community

Three credits. Three hours of lecture a week. Prerequisites: TSOC 4011 and 4012.

It examines the group system as the focus of attention of social work, as well as essential aspects of groups in terms of their dynamics, characteristics and types of groups with which social work is intervened. It also discusses the application of generic phases in the process of helping groups as client systems.

TSOC 4026 - Personal and Professional Development

Three credits. Three hours of lecture a week. Prerequisites: TSOC 3005, 3015 and 4003.

The general purpose of the course is to provide students with skills of self-knowledge and interpersonal relationships that will enable them to develop professionally in the field of social welfare in the provision of professional services in the social work profession, through personal development as a means.

TSOC 4027 - Community Organization and Social Policy

Three credits. Three hours of lecture a week. Prerequisite: TSOC 4011, 4012, 4025.

Intervention with communities is examined as a process aimed at empowering these groups in solving their problems as social nuclei, especially in light of changes in the welfare state. The relationship between communal work and the formulation of social policies that adequately respond to established needs is studied. The generic sequence of intervention is applied to community work.

TSOC 4028 - Socio-Legal Aspects Related to Social Work

Three credits. Three hours of lecture a week.

This elective course examines the major socio-legal processes in Puerto Rico and their relationship to the roles played in social work practice. It also examines some public policies related to families, children, adolescents and the disabled and their legal implications.

TSOC 4029 - Social Intervention with the Disabled Person and their Family

Three credits. Three hours of lecture a week.

Study of the basic concepts related to the social construction of disability from which the student will be directed to the application of critical thinking from the role of the generalist social worker. Through the lecture, field experiences, analysis and discussion of readings and films, the

second-year student in the concentration or other discipline will be led to identify and combat various forms of oppression experienced by disabled people and their families, as well as to promote their inclusion and participation in social work. It is an elective course.

TSOC 4030 - Oppression, Inequality, and Social Work

Three credits. Three hours of lecture a week. Prerequisites: CISO 3121, 3122.

Study of the manifestations of oppression, its dimensions and the political, cultural, social and economic forces that generate and maintain it through the conference, group work and written works, the conditions of inequality in vulnerable populations such as migrants, LGBT communities, socioeconomically disadvantaged, and groups discriminated against on the basis of race are critically analyzed. age, gender, class, ethnicity, among others. It presents models of transformation aimed at dismantling and building conditions of oppression and inequality, promoting the transformation of populations that consistently find themselves in conditions of inequality and inequity, aimed at dismantling oppression to promote the principles of social justice and human rights. The course aims to enable students to identify and understand the conceptual bases of the situations of oppression of discriminated populations and groups in order to develop affirmative competencies to combat conditions of inequality in these populations.

TSOC 4036 - Social Work Practice and Mental Health Services

Three credits. Three hours of lecture a week. Prerequisites: TSOC 3005, 3015, 4003, 4004, and 4015.

This elective course examines mental health issues, the services provided by mental health institutions, and the roles, knowledge, and competencies inherent in the practice of social work with these patients.

TSOC 4047 - Administration of Social Welfare Agencies

Three credits. Three hours of lecture a week.

Basic Principles of the Administration of Social Welfare Agencies; the importance of the management process for the provision of effective social services and the role of social welfare staff as an integral part of a social agency.

TSOC 4065 - Supervised Practice

Six credits. Supervised practice discussion (240 hours per semester). Prerequisites: TSOC 3005, 3015, 3131, 3132, 4003, 4004, 4011, 4012, 4025, 4025, 4027, 4030, CISO 3011 and 3086

This course completes the sequence of the concentration in social work, integrating theory with direct hands-on experience in various social service agencies. Included is a series of introductory workshops with practice faculty and other agency and department resources.

TSOC 4095 - Family Social Work

Three credits. Three hours of lecture a week.

This elective course aims to examine the family system as a fundamental social institution that meets the basic needs of the human being, as well as its nature and dynamics as a social system. It will also

provide the knowledge, skills and attitudes necessary to intervene professionally with families at both preventive and remedial levels.

TSOC 4195 - Gerontology and Social Welfare

Three credits. Three hours of lecture a week.

This elective course examines biological and psychosocial aspects that are involved in the aging process. It analyzes the impact of these changes on the behavior patterns of the elderly. It provides the knowledge, skills, and attitudes necessary to play a professional helping role with older people.

TSOC 4205 - Child and Community Services

Three credits. Three hours of lecture a week.

The general purpose of the course is to familiarize students with the main services of the Puerto Rican community that provide services aimed at meeting the basic needs of the child in the area of social welfare. Students will learn about the main social problems that directly affect our child, with their corresponding public and private services.

TSOC 4206 - Social Situation of the Female Gender and the Social Welfare System

Three credits. Three hours of lecture a week.

This elective course presents an overview of the situation of women in the historical social sphere both in Puerto Rico and at the global level, and their role as recipients of social services.

TSOC 4215 - Homosexuality: Sexual Diversity

Three credits. Three hours of lecture a week.

Broad vision and trajectory of female and male homosexuality, through a bio-psycho-social approach to the human being.

TSOC 4305 - Drug Policy from a Public Health Model

Three credits. Three hours of lecture a week.

This course promotes the discussion of local and international drug policy, its paradigmatic bases, and its consequences and challenges for Puerto Rican society. Its emphasis lies in the promotion of critical analysis of existing alternative policies inside and outside Puerto Rico to effectively deal with addiction to legal and illegal drugs, particularly those policies framed in a public health model. Topics include paradigms, prohibitionism and its consequences, drug policies under a health model, health strategies focused on harm mitigation, international and local perspective on drug policies and alternatives for Puerto Rico.

TSOC 4505 - Macrovision of Social Work Intervention

Nine credits. Ninety lectures and 300 hours of practice. Prerequisite: Be employed in an agency that provides social services, but without adequate expertise and/or professional training.

Possess a high school index of no less than 2.00 basic aspects of social work intervention including nature, basic skills, and models. It is geared towards a population of students with little or no training in the field.

SCHOOL OF ARCHITECTURE

Dean: Mayra Jimenez Montano, PhD,

Associate Dean for Academic Affairs: Carola Ballester Descartes, MLA

Assistant Dean for Student Affairs: Arch. Anixa Gonzáles Ríos, M. Arch

Undergraduate Program Coordinator: *Arq. Ernesto Rodríguez Matos, M.*

Arch Technical Services Coordinator: *Mavet Colón Casellas, MOS, MCE*

Architecture and Construction Archive: *Nathalie González Torres, MA*

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HISTORY

Planning for the School of Architecture began in October 1965 as a result of the efforts of a group of Puerto Rican architects working in collaboration with the Puerto Rico Institute of Architects.

On April 15, 1966, the Council of Higher Education created the School. In August of that same year, the first group of students was enrolled and, in June 1971, the first degrees of Bachelor of Architecture were awarded.

On July 17, 1976, the Council of Higher Education approved the restructuring of the School by offering two degrees: Bachelor in Environmental Design and Master in Architecture, the latter being the professional degree.

On March 21, 2019, the Council of Higher Education approved a second route for the Master's Degree in Architecture aimed at students with Bachelor's degrees in other disciplines.

RECOGNITIONS AND ACCREDITATIONS

The School of Architecture is accredited by the National Architectural Accrediting Board as the only accredited public institution and the only school of architecture in Puerto Rico that offers advanced professional studies. The School is a member of the Association of Collegiate Schools of Architecture (ACSA) and the Latin American Conference of Schools and Faculties of Architecture (CLEFA).

BACHELOR'S DEGREE IN ENVIRONMENTAL DESIGN

The School of Architecture's Bachelor of Environmental Design (BDA) is a four-year, non-professional program. It is aimed at people who want to have a preparatory degree before continuing studies in architecture or related fields. Our Baccalaureate seeks to establish a balance between the conceptual aspects of design and the techniques that allow these ideas to materialize. For this reason, our education includes both humanistic and technical courses, always taking as a reference the particular needs of Puerto Rico.

The program is made up of 39 courses, for a total of 131 credits. These credits are subdivided into 39 credits from the general education component, 12 credits from elective courses, and 80 credits of concentration courses. General education courses prepare our students in various areas,

such as: physics, mathematics, biology, literature, and social sciences. Elective courses, on the other hand, allow the student to take courses according to their interests, in any of the multiple areas of knowledge available at the Río Piedras Campus and the other campuses of the University of Puerto Rico system. Concentration courses are those aimed at specific knowledge in the area of environmental design.

Design courses prepare students to solve problems associated with the manipulation of environmental variables, with emphasis on architectural scale situations. These courses are taught in the School's design workshops, and follow a practice-based teaching modality, where teachers act as mentors, working together with the student in solving the exercises presented as part of the courses. The workshop is a space for synthesis, where the student must make use of the various knowledge acquired throughout the different courses of our curricular structure.

The History and Theory sequence exposes the student to contents associated with the development of design over time, from antiquity to the present day. It is expected that through these courses the student will not only be informed about those designers and the works that have been relevant to the development of the discipline, but also that they will develop a critical thinking that allows them to reflect not only on the past, but also on the present and the role we play as designers in our contemporary context. The Structures and Technology sequence prepares the student in the technical knowledge necessary for the materialization of the design idea. The sequence is comprehensive, touching on topics such as the resistant elements of the building, their design and calculation, the climatic aspects of the space and their mechanical control, and the aspects related to professional practice, among others.

Students are expected to incorporate these technical aspects into the work they do in the design workshops.

DEGREES AWARDED

Bachelor's Degree in Environmental Design and Master's Degree in Architecture.

LOWER CONCENTRATIONS

Minor in Integrated Practice in Architecture and Civil Engineering

The minor concentration is offered by the Department of Civil Engineering and Surveying and the School of Architecture of the Río Piedras Campus. The INCI courses are offered at the UPRM and the ARQU courses are offered by the UPR-RP School of Architecture through the online modality.

Minor in Art-Design and Contexts of Intervention

The minor concentration is offered by the Faculty of Humanities in conjunction with the School of Architecture of the Río Piedras Campus. The ARTE courses are offered by the Department of Fine Arts and the ARQU courses are offered by the UPR-RP School of Architecture through the face-to-face modality.

STUDENT SERVICES

SANTIAGO IGLESIAS, JR. LIBRARY

It contains approximately 33,000 volumes on architecture and other related fields, such as art history, design, technology, urban planning, planning, landscaping, and fine arts. The library provides the environment, technology, services and informational resources necessary to support teaching and research in the area of architecture and related topics. The library

contains the following collections: General Collection, Special Collection, Puerto Rico Collection, Rare Book Collection, Magazine Collection, and Library.

AACUPR

The Architecture and Construction Archive of the University of Puerto Rico was created in 1986 as a teaching support unit. As a research center aimed at knowledge management, dissemination is a seminal part of AACUPR's work. The Archive actively organizes exhibitions, conducts research, publishes two series, and works on the nomination of significant properties to the National Register of Historic Places. The AACUPR has also organized congresses, conferences and educational projects.

DESIGN RESEARCH CENTER

It is presented as a field of research and practice which seeks to integrate and understand the interaction between design and social intelligence.

The center presents a multidisciplinary approach related to the design and implementation of systems. The centre investigates the possibilities of collaboration systems that facilitate the interaction of participants on a global scale within the network. In addition, new procedures are investigated in the teaching of design and interaction with the workshop.

C.I.U.D.A.D.

Multidisciplinary research centre on cities, urban planning, social spaces, community, sustainability, development and design. The center aims to multiply research exploring the links between urban space, violence, political processes, and the behavior of the economy.

The energetic academic interest in the spaces of the city responds, naturally, to the hegemony that urban culture exerts over all the everyday aspects of modernity.

COMPUTER LAB

The laboratory is a service and research center related to digital processes in architecture and design. Students are constantly researched and instructed in the application of various programs, such as Auto Cad, Revit, Rhinoceros, Adobe Creative Suite, 3d Max among others. We have 350 square meters dedicated to teaching and research. Our equipment consists of 40 PCs, 15 MAC computers and 5 high-resolution printers.

COMMUNITY DESIGN WORKSHOP

The workshop is an initiative to integrate design theory and practice into community service. By searching for design possibilities, the Workshop maximizes the quality of life of communities that would not normally have access to advice about the built environment. Academically, it allows students to tackle architectural problems in socially impacted areas and offer housing solutions and physical and economic development responding to our climate and culture.

DIGITAL FABRICATION LAB

The Fab Lab of the School of Architecture of the University of Puerto Rico is a service and research center related to manufacturing. Students are constantly researched and instructed in the use of different materials, model techniques and prototypes, either through digital or manual processes. It has a wide variety of traditional equipment

and digital for such purposes.

We have 1,900 square feet (177 m²) dedicated to the wood workshop, painting station, and

digital fabrication equipment. The equipment in the digital fabrication area ranges from laser cutters, 3d printers, a vinyl printer, a metal milling machine, a 4' x 8' x 10" cnc router.

ACOUSTICS LABORATORY

The laboratory contains support equipment for the Architectural Acoustics and Noise Control courses, as well as a sound reproduction and digital recording system. Its specialized electroacoustic instruments (sound level meters, FFT analyzer, real-time analyzer and oscilloscopes) allow the realization of acoustic measurements for the benefit of the teaching/learning process in this area of study.

STRUCTURES AND MATERIALS LABORATORY

The laboratory has computer equipment for the analysis and experimentation of structural systems of buildings or projects studied in the Theory, Structures and Design classes. The lab provides the student with a better understanding of structural systems, and their applications in architecture.

ENVIRONMENTAL LABORATORY OF BIO-TROPICAL ARCHITECTURE

This laboratory provides mechanisms, instruments and facilities for research on sun protection, lighting and natural ventilation. The LAAB features a first-of-its-kind, low-speed, open-circuit Wind Tunnel in both Puerto Rico and the Caribbean. It is equipped with mechanical controls that regulate wind speed and omnidirectional anemometers with a multi-channel configuration for its measurement.

This laboratory also has a heliodon to demonstrate the effect of light and shadow on fenestrations and architectural features and sunlight on urban layouts. For the analysis of natural lighting, it has sensors and multi-channel light meters, for use in indoor and outdoor spaces of models, with instruments that perform climatic, environmental and architectural analyses.

ADMISSION REQUIREMENTS

New students must file the Campus Admission Application. During the month of March, admitted students will be notified of the process to follow by regular mail. Likewise, those students who do not have the IGS required by the School, will also be notified during the month of March about the possibility of filing their portfolio to participate in an evaluation and determine their eligibility to enter the School. The portfolio must be generated following the established parameters.

TRANSFER ADMISSION

1. Submit an application to the School of Architecture by the deadline indicated each year.
2. File an Application for Admission by Transfer through the Campus Admissions Office, located at Plaza Universitaria, 2nd. Floor, University of Puerto Rico.
3. Send official transcripts from all the institutions you have studied. (The Institution must be among the accredited universities in the country.) Courses must be conducive to high school level.
4. Have passed at least 12 credits with the index required by the School for the year in which you are applying.
5. If you do not meet the established index during that year, you will have the opportunity to submit a portfolio.

TRANSFER APPLICANTS

1. Submit an application to the School of Architecture by the deadline indicated each year.

2. Request a transfer through the Registrar's Office of your unit to the Río Piedras Campus.
3. Have passed at least 12 credits with the index required by the School for the year in which you are applying.
4. If you do not meet the established index during that year, you will have the opportunity to submit a portfolio.

APPLICANTS FOR RECLASSIFICATION

1. Submit an application to the School of Architecture by the deadline indicated each year.
2. Have passed at least 12 credits with the index required by the School for the year in which you are applying.
3. If you do not meet the established index during that year, you will have the opportunity to submit a portfolio.
4. Submit first-year students through the Office of General Studies.
5. Students in their second year and older file Reclassification through the Office of the Registrar.

READMISSION

1. Submit an application to the School of Architecture by the deadline indicated each year.
2. Have passed at least 12 credits with the index required by the School for the year in which you are applying.
3. If you are a student at the Río Piedras Campus, file an Application for Readmission at the Registrar's Office.
4. If you were a student of the UPR System and graduated, you can apply for readmission through the Río Piedras Campus Office, but you must request transcripts at your unit.
5. If you do not meet the established index during that year, you will have the opportunity to submit a portfolio.

GRADUATION REQUIREMENTS

Candidates for the Bachelor's Degree in Environmental Design must pass the 131 credits required in the study program with an index of no less than 2.00.

PORTFOLIO INSTRUCTIONS

The portfolio is a requirement that allows candidates an opportunity to showcase their interests and skills. It includes work previously done by the candidate, such as drawings, painting, photographs, mixed media, graphics, as well as photos of objects made by the candidate such as sculptures, ceramics, woodwork, and/or models. The parameters for evaluating the portfolio will be as follows:

1. **Quality:** refers to the mastery of representation techniques. It includes aspects such as knowledge of representation techniques, quality of line tracing, and use of color.
2. **Creativity:** refers to the ability and interest to apply new techniques, explore new options, and create links between creative areas.
3. **Diversity:** It is considered positive that the candidate has a broad spectrum of activities, which shows the candidate's interests, capacity and ability in those areas.

4. The portfolio must meet the following characteristics:
 - Size should be no larger than 8.5 x 11 inches (horizontal or vertical).
 - You must have a cover page (inside the portfolio) with your name, mailing and email address, and phone number.
 - Each project or image must be accompanied by a description indicating when the piece was made, for what purpose (for a class, individually, etc.) and, if the work is part of a group project, it must be clearly explained what the candidate's contribution was to the work.
 - Each student should determine how the portfolio will be bound. However, we recommend that you try to make it as simple as possible, and that it allows you to view the content of the pages without difficulty.
5. The portfolio must be submitted physically at the Baccalaureate Program Office of the School of Architecture, from 8:30 AM to 12 M, and from 1:30 PM to 4 PM, Monday through Friday (does not include holidays). The portfolio must be submitted in this way on or before March 15 at 4 PM, Puerto Rico time. If you wish to have your portfolio returned to you after the evaluation, you must include an envelope large enough to hold the portfolio with postage paid for returning the portfolio by regular mail (USPS). It must also have the full addressee address written on the outside of the envelope.

CURRICULUM

ENVIRONMENTAL DESIGN

FIRST YEAR

First Semester Required Courses		Second Semester Required Courses	
ARQU 3131- Fundamentals of Design I	5	ARQU 3132- Fundamentals of Design II	5
ARQU 3121- Introduction to Architecture I	3	ARQU 3015, 3016, 5006, 5995 (Visual Communication Courses Component)	2
ARQU 3046 Mathematics II	4	CIFI	3
ARQU 3615 Architectural Representation and Visualization (Directed Elective)	3	ENGLISH	3
		ESPA	3

SECOND YEAR

First Semester Required Courses		Second Semester Required Courses	
ARQU 3133- Elementary Architectural Design I	5	ARQU 3134- Elementary Architectural Design II	5
ARQU 4211- History of Architecture I	3	ARQU 4212- History of Architecture II	3
ARQU 4311- Technology I	3	ARQU 4312- Technology II	3

ENGLISH	3	ARQU 4145- Research Techniques	2
ESPA	3	TAMALE	3

THIRD YEAR

First Semester Required Courses

Second Semester Required Courses

ARQU 4133- Intermediate Architectural Design I	5	ARQU 4134- Intermediate Architectural Design II	5
ARQU 4213- History of Architecture III	3	ARQU 4214- History of Architecture IV	3
ARQU 4321- Structures I	3	ARQU 4322- Structures II	3
CISO	3	CISO	3
TAMALE	3	Free Elective	3

FOURTH YEAR

First Semester Required Courses

Second Semester Required Courses

ARQU 4135- Advanced Architectural Design I	5	ARQU 4136- Advanced Architectural Design II	5
ARQU 4313- Technology III	3	ARQU 4146- Theory of Architecture	3
LITE	3	ARQU 4323- Structures III	3
CIBI	3	LITE	3
Free Elective	3	Free Elective	3
		TOTAL CREDITS	131

LOWER CONCENTRATIONS

MINOR CONCENTRATION IN INTEGRATED PRACTICE IN ARCHITECTURE AND CIVIL ENGINEERING

REQUIRED COURSES

ARQU 3015- Fieldwork Seminar	3
INCI or ARQU/ Directed Elective	3
INCI 5010- Sustainable and Resilient Design and Construction	3
INCI 5036, Production of Design and Construction Projects	3
Total Credits	12

MINOR IN ART-DESIGN AND CONTEXTS OF INTERVENTION

REQUIRED COURSES

ARQU o ARTE 3110- Introduction to the Relationships between Art, Design and Contexts of Intervention. (Introductory Course)	1
ARQU o ARTE 3310- Project Development: Between Art, Design and Contexts of Intervention. (Closing Course)	2
Course Menu Selection in ARTE:	6
Course Menu Selection in ARQU:	6
Total Credits	15

FACULTY OF ARCHITECTURE

- Ballester Descartes, Carola; MLA, Polytechnic University of Puerto Rico, 2010.
- Calzada Acosta, Blanquita; M. Ach, University of Puerto Rico (Río Piedras), 1983.
- Campo Urrutia, María M.; PhD, University of Puerto Rico (Río Piedras), 2010; Professor.
- Cavallin Calanche, Humberto E.; PhD, University of California, 2006; Professor.
- Daza Duarte, Luis G.; EngD, University of Puerto Rico (Mayagüez), 1996; Professor.
- Fuster Felix, Nathaniel; DArch, Harvard University, 1999; Professor.
- Georas Santos, Anna L.; PhD, Complutense University, 2015; Professor.
- Gonzalez Rios, Anixa; M. Arch, Ohio State University, 2000.
- González Torres, Nathalie; M.A., University of Puerto Rico (RP), 2013; Librarian II.
- Isado Vigil, Javier; M. Arch, Polytechnic University of Catalonia, 1999; Assistant Professor.
- Jiménez Montano, Mayra; PhD, University of Granada, 2017.
- Lizardi Pollock, Jorge L.; PhD, University of Puerto Rico (Río Piedras), 2002; Professor.
- Martínez Joffre, Elio S.; M. Arch, Instituto Tecnológico de Monterrey, 1980; Professor.
- Muñoz Rivera, Pedro A.; PhD, Virginia Polytechnic Institute, 1985; Professor.
- Penabad Sánchez, Juan C.; M Arch, Yale University, 1989; Assistant Professor.

- Planas Casado, Robin; M Arch, University of Puerto Rico (RP), 2007.
- Ramos Ramírez, Regner; PhD, Bartlett School of Architecture, 2016; Associate Professor.
- Rodríguez Matos, Ernesto F.; M Arch, (MIT) Massachusetts Institute of Technology, 1996.
- Sennyey Halasz, Stephen; M. Arch, Cornell University, 1982; Professor.

ARCHITECTURE COURSES

ARQU 3000- Basic Mathematics

No Credit. Three hours of lecture a week. Prerequisite: Admission to the school of architecture.

Preparatory course for architecture students. It covers basic concepts of algebra, geometry, and trigonometry.

ARQU 3001 - Design I

Five credits. Twelve hours of meeting a week. Prerequisite: ARQU 3031- 3032.

Problems in two-dimensional and three-dimensional design. Materials and techniques of visual and plastic representation.

ARQU 3002 - Design II

Five credits. Twelve hours of meeting a week. Prerequisite: ARQU 3031- 3032.

Problems in two-dimensional and three-dimensional design. Materials and techniques of visual and plastic representation.

ARQU 3005 - Interior Design

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisite: ARQU 3032.

Raise awareness of the specific problems presented by the solution of interior spaces and their integration into the total design.

ARQU 3006 - Hispano-American Architecture 1500-1800

Three credits. Three hours of lectures a week. Prerequisite: ARQU 3051- 3052.

Study of the architectural forms that emerged in the different regions of meso and South America as a solution to the problems of: urban planning, missionary architecture, cathedrals, parish churches, sanctuaries, public buildings, housing, military architecture, pre-Columbian and European influences.

ARQU 3007 - Architectural Typology

Three credits. Three hours of lecture a week. Prerequisite: One year of architecture.

This course is based on the analysis, interpretation and reinterpretation of historical precedents at a conceptual level. The goal is to provide an architectural framework that allows for the most efficient resolution of design problems. Typological aspects related to the projects that are simultaneously being executed in the design sessions will be developed. The emphasis will therefore be thematic, not chronological. Architecture will be related to various branches of art: literature, music, painting, etc., according to their relevance today.

ARQU 3008 - Language of Photography

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: ARQU 3071 or dean's authorization.

The potential of photography to record and express the visual experience. Develop the ability to use a camera to record the environment with expression, creativity and imagination.

ARQU 3009 - Model Techniques

Two credits. Four hours of lab time a week. Prerequisite: Dean's consent.

Study of techniques for the elaboration of scale models and analysis and selection of suitable materials, both traditional and modern, that are used in the preparation of them. Creative use of the various tools, materials and procedures as a means to extend the design processes and establish the correct relationship between concept and media.

ARQU 3011 - Graphic Composition

Three credits. Four hours of lab time a week. Prerequisite: Dean's consent.

A study of visual elements of the future architect in relation to visual Graphic Arts and composition through the synthesis of graphic images.

ARQU 3012 - Graphic Composition

Three credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: ARQU 3011.

Introduction to Intaglio techniques and Serigraphy.

ARQU 3015 - Fieldwork Seminar

Three credits. Four hours of lab time a week. Prerequisite: This is determined by the topic of the project.

A field within or related to architecture is studied, which is not included in the curriculum. This topic should be agreed upon between the students and their teacher. This course can be taken up to 4 times (12 credits) under varying topics.

Subject: Freehand drawing. P H online.

Topic: Introduction to Sustainable Design + Leed. P H

Online Topic: Design. P.H. Online

ARQU 3016 - Fieldwork Seminar

Two credits. Two hours of lab time per week. Prerequisite: This is determined by the topic of the project.

A field within or related to architecture is studied, which is not included in the curriculum. This topic should be agreed upon between the students and their teacher. Face-to-face, hybrid and online course.

ARQU 3017 - Oriented Research Workshop

Three credits. Four hours of lecture per week. Prerequisite: This is determined by the topic of the project.

Research of course material to promote knowledge enrichment of the curriculum. of Chosen area and the

ARQU 3018 - Oriented Research Workshop

Two credits. Two hours of lecture per week. Prerequisite: This is determined by the topic of the project.

Research of course material to promote knowledge enrichment of the curriculum. of Chosen area and the

ARQU 3019 - Introduction to Landscape Architecture

Three credits. Three hours of lecture a week. Prerequisite: Have passed the third year of design.

Lectures, seminars and research on historical aspects and the practice of landscape architecture.

ARQU 3021 - Visual Communication

Three credits. Two hours of lecture and two hours of laboratory time per week.

Analysis and experimentation of graphic representation techniques at the service of the architectural idea and the influence of visual phenomena on perception.

ARQU 3022 - Visual Communication

Three credits. Two hours of lecture and two hours of laboratory time per week.

Analysis and experimentation of graphic representation techniques at the service of the architectural idea and the influence of visual phenomena on perception.

ARQU 3025 - Introduction to Landscape Architecture

Three credits. Three hours of lecture a week. Prerequisite: Have passed the third year of design.

Lectures, seminars and research on historical aspects and the practice of landscape architecture.

ARQU 3026 - Community Research & Design

Three credits. Three hours of meeting a week.

Pilot experience for the summer with a course section. Office practice. Social, economic and physical research. Land use, infrastructure. Design of typical cases, housing blueprints.

ARQU 3027– Community Research & Design

Three credits. Three hours of meeting a week.

Pilot experience for the summer with a course section. Office practice. Social, economic and physical research. Land use, infrastructure. Design of typical cases, housing blueprints.

ARQU 3030 - Special Seminar on Architectural Design

Five credits. Sixteen hours of workshop and laboratory. Prerequisite:

Authorization from the Dean of Architecture.

Seminar on architectural design through which the student will be able to overcome deficiencies diagnosed by the faculty in their development as a designer, pursue special interests of academic value in the field of design or both.

ARQU 3031 - Design I

Five credits. Twelve hours of meeting a week.

Two-dimensional and three-dimensional design problems. Visual Representation Materials and Techniques y plastics.

ARQU 3032 - Design II

Five credits. Twelve hours of meeting a week.

Two-dimensional and three-dimensional design problems. Visual Representation Materials and Techniques y plastics.

ARQU 3041 - Mathematics I for Architects

Three credits. Three hours of lecture a week. Prerequisite: ARQU 3000 o consent of the dean.

The objectives of these courses are to develop the student's ability to reason in mathematical terms and to understand the fundamentals of algebra and plane trigonometry. Applications.

ARQU 3042 - Mathematics II for Architects

Three credits. Three hours of lecture a week. Prerequisite: ARQU 3000 o consent of the dean.

The objectives of these courses are to develop the student's ability to reason in mathematical terms and to understand the fundamentals of algebra and plane trigonometry. Applications.

ARQU 3045 - Mathematics I

Four credits. Four hours of lecture per week. Prerequisite: Admission to the architecture program.

School Math Basics for Architecture Students. Review of algebra and analytic geometry, solid geometry, functions, systems of linear equations, and trigonometry. Mathematics as a tool to strengthen the student's reasoning ability. Practical problems with applications.

ARQU 3046 - Mathematics II

Four credits. Four hours of lecture per week. Prerequisite: ARQU 3045.

Basic Concepts of Calculus for Architecture Students. Reason for change. The derivative as a limit and its geometric interpretation. Differentiation rules. Maximums and minimums applied. Curve tracing. The anti-derivative. The fundamental theorem of calculus. The integral defined. Determination of areas and volumes using calculation. Face-to-face, hybrid and online course.

ARQU 3051 - History of Art for Architects

Three credits. Three hours of lecture a week. Prerequisite: HUMA 3202 or 3012.

First semester: Introduction to the history of the visual arts from its prehistoric beginnings to the fourteenth century, concentrating on painting, sculpture and minor arts. In addition to providing a historical frame of reference, it is intended to train students in the analysis of works of art in order to increase their knowledge and enjoyment of them.

Second semester: Concentrates on the study of art from the 15th to the 20th centuries.

ARQU 3052 - History of Art for Architects

Three credits. Three hours of lecture a week. Prerequisite: HUMA 3202 or 3012.

First semester: Introduction to the history of visual arts from its prehistoric beginnings to the fourteenth century. Concentrating on painting, sculpture and minor arts. In addition to providing a historical frame of reference, it is intended to train students in the analysis of works of art to increase their knowledge and enjoyment of them.

Second semester: Concentrates on the study of 15th- and 20th-century art.

ARQU 3061- Advanced Seminar in Art History

Three credits. Three hours of lecture a week. Prerequisite: ARQU 3051- 3052.

An investigation of the theoretical basis of different styles and periods (which may vary from cycle to cycle), their motivations, cultural implications, and means of production related to time and space. A search for theories of art and methods of interpretation and criticism.

ARQU 3062- Advanced Art History Seminar

Three credits. Three hours of lecture a week. Prerequisite: ARQU 3051-3052.

An investigation of the theoretical basis of different styles and periods (which may vary from cycle to cycle), their motivations, cultural implications, and means of production related to time and space. A search for theories of art and methods of interpretation and criticism.

ARQU 3071- Basic Photography for Architects

Three credits. Three hours of lecture and two hours of lab per week. Prerequisite: Consent from the dean of the school.

Basic principles of photography. Composition, use of the camera, lighting techniques and study. Model photography. Developing & Magnification, Lab Practice, Including Color, White y black.

ARQU 3072- Advanced Photography for Architects

Three credits. Two hours of lecture and two hours of lab per week. Prerequisite: ARQU 3071.

Advanced techniques in photography and composition, use of specialized photographic equipment. Advanced laboratory techniques including color, black and white. Principles of cinematography and other audiovisual techniques.

ARQU 3081- Mathematics III for Architects

Three credits. Three hours of lecture a week. Prerequisite: ARQU 3042.

Basic concepts of differentiation and integration. Rigorous application of these concepts to problem solving. Highs and lows. Analytical geometry of the plane and its relation to calculation. Graphic. Polar coordinates. Vectors.

ARQU 3082- Mathematics IV for Architects

Three credits. Three lecture hours per week Prerequisite: ARQU 3042.

Basic concepts of differentiation and integration. Rigorous application of these concepts to problem solving. Highs and lows. Analytical geometry of the plane and its relation to calculation. Graphic. Polar coordinates. Vectors.

ARQU 3091- Painting I for Architects

Three credits. Three hours of lab time a week. Prerequisite: Consent from the dean of the school.

Introduction to the techniques and uses of painting. Analysis of the formal elements of painting through theoretical-practical classes. Exercise in original works that allow personal expression and at the same time serve as a verification of the student's aptitude.

ARQU 3092- Painting II for Architects

Three credits. Three hours of lab time a week. Prerequisite: Consent from the dean of the school.

Introduction to the techniques and uses of painting. Analysis of the formal elements of painting through theoretical-practical classes. Exercise in original works that allow personal expression and at the same time serve as a verification of the student's aptitude.

ARQU 3101- Computers at the Service of Architecture

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisites: ARQU 3081- 3082.

The use of computer techniques in research and their professional applications in architecture. Fundamentals of a human-machine communication of programming (fortran) as middle of language.

ARQU 3102 - Computers at the Service of Architecture

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisites: ARQU 3081- 3082.

The use of computer techniques in research and their professional applications in architecture. Fundamentals of a human-machine communication of programming (fortran) as middle of language.

ARQU 3121- Introduction to Architecture

Three credits. Three hours of lecture a week. Prerequisite: Admission to the Program.

This course is the foundation of the history/theory and technology sequences. It facilitates the understanding of architecture as a discipline closely linked to its contexts of intervention. It explores the relationships between the past and the present, both in immediate experiences and those distant from their physical and cultural context. It focuses the discussion on the search for those intellectual mechanisms that ensure permanence, change and transformation within the theory and practice of architecture. It establishes the parameters for the definition of architecture, design and space, based on methodology/technique and materials. It focuses on the study of architectural theory and practice from different historical periods, styles, and is organized according to the following topics: classical, modern, regional, and contemporary. It considers introductory concepts to the history of the profession, the conception and representation of architectural space and urban design. Face-to-face, hybrid, distance and online course.

ARQU 3122- Introduction to Architecture II

Two credits. Two hours of lecture per week. Prerequisite: ARQU 3121.

Introduction to the determinants of architectural form: history and culture, historical precedent and architectural typology, climate, topography, landscape and vegetation, materials, structure and construction systems, the client and the design program. Interaction of these factors with human beings and architectural space.

ARQU 3131- Fundamentals of Design I

Five credits. Two hours of lecture and 10 hours of workshop per week. Prerequisites: admission to the school or authorization from the dean.

Introduction to the elements, principles, and design process. Basic principles of composition in two and three dimensions. Application of basic design principles to problem solving. Principles and techniques of two- and three-dimensional representation, graphic communication, and descriptive geometry. Technical and free drawing. Face-to-face, hybrid course
y online.

ARQU 3132 - Design Fundamentals II

Five credits. Two hours of lecture and 10 hours of workshop per week. Prerequisite: ARQU 3131.

The course introduces the student to the study of the factors that influence architectural design, such as the program, the context, the handling of form and the constructive aspects. The student will develop skills to conceptualize and organize the program, and understand the concepts of function and form, the analysis and synthesis of context and design variables, as well as the development of constructible forms. You will be trained in the use of tools such as partition, spatial order and sequence, architectural representation, as well as the management of design scales, while developing teamwork skills. You will experiment with the role of materiality and its implications in architectural design. The study of architects and their works will continue, in order to become familiar with concrete experiences relevant to the history of architecture. This course will be offered face-to-face, hybrid, and online.

ARQU 3133 - Elementary Architectural Design I

Five credits. Two hours of lecture and ten hours of workshop per week. Prerequisites: ARQU 3132, ARQU 3121.

The course focuses on learning the formal and spatial aspects of composition applied to architectural space and its volumetry, as well as on the criteria that govern the assembly of the parts that make up the space and the building itself. The discussion incorporates considerations of programming, accessibility, materiality/construction, human scale, and anthropometry (furniture/modularity). The topic of small-scale institutional buildings will be initiated, in addition to the management of natural conditions in rural contexts that involve the use of skills, specifically the management of environmental variables (topography, insulation, natural ventilation). The course continues with the development of skills and the acquisition of tools for representation, with the intention of understanding the role of drawing, modelling and presentation as essential instruments to explore and communicate architectural ideas. Students will continue the study of architects and their works in order to recognize successful precedents in integrating the particular topics introduced in this course. P.H.L. Course

ARQU 3134 - Elementary Architectural Design II

Five credits. Two hours of lecture and five hours of workshop per week. Prerequisites: ARQU 3133.

The course focuses on learning the design strategies necessary for the development of medium-scale buildings in urban conditions. The student will be exposed through the course to strategies for solving buildings in pre-existing urban contexts, and will be handling considerations of a normative, environmental, static resistance and architectural composition nature. Students will continue to expand their knowledge about architects and their works, whose experiences are relevant to the history of architecture. This course will be offered face-to-face, hybrid, and online.

ARQU 3521 - Physics I

Three credits. Three hours of lecture a week. Prerequisite: ARQU 3045, ARQU 3046.

Basic Applied Physics Concepts for Architecture Students. Physical Units, Forces and vectors. Balance. Newton's laws and their application to dynamics. Kinematics: rectilinear motion. Work

and energy conservation. Momentum and preservation of momentum. Movement of the projectile. Circular motion. Rotation of bodies. Vibratory movement. Hydrostatics and mechanics of physical principles in classes.

ARQU 3522 - Physics II

Three credits. Three hours of lecture a week. Prerequisites: ARQU-3521, ARQU-3046.

Basic Physics Concepts for Architecture Students. Wave motion. Sound. Heat and temperature. Principles of thermodynamics. Elementary atomic theory. Electricity and magnetism. Electrical circuits. Electromagnetic waves. Theory of light. Geometric optics. Demonstration of physical principles in class.

ARQU 3905 - Introduction to Acoustics

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisites: CIFI 3001-3002, MATE 3016.

Fundamental principles of acoustics considering physical and psychophysical aspects alike. They will use demonstrations to establish the connection between physical-mathematical descriptions and auditory sensation.

Herself

ARQU 4001 - Architectural-Elementary Projects

Five credits. Sixteen hours of lab per week. Prerequisite: ARQU 3002.

First course in the series of courses in architectural design required by the architecture program.

ARQU 4002 - Architectural-Elementary Projects

Five credits. Sixteen hours of lab per week. Prerequisite: ARQU 3002.

Second course in the series of courses in architectural design required by the architecture program.

ARQU 4005 - History of Architecture I

Three credits. Three hours of lecture a week. Prerequisites: ARQU 3051-3052.

Study of the history of architecture up to the Roman Empire, emphasizing the aesthetic aspects. physical, ideological, and social.

ARQU 4006 - History of Architecture II

Three credits. Three hours of lecture a week. Prerequisites: ARQU 3051-3052.

Study of the history of architecture during the Middle Ages, highlighting the aesthetic, physical, ideological and social aspects.

ARQU 4007 - History of Architecture III

Three credits. Three hours of lecture a week. Prerequisite: ARQU 4006.

Critical methodological approach and its discussion. Development of architecture in the physical and cultural environment of this period. Analysis of the spatial, technological and figurative values of his representative works.

ARQU 4008- History of Architecture IV

Three credits. Three hours of lecture a week. Prerequisites: ARQU 3051-3052.

Critical methodological approach and its discussion. Development of architecture in the physical and cultural environment of the modern and contemporary periods from the eighteenth century onwards. Analysis of the spatial, technological and figurative values of his representative works.

ARQU 4009 - Study Tour for Architects

Three credits. Forty hours of research. Prerequisites: ARQU 4007- 4008.

An experience with the outside world in which architectural values are sought and studied in comparison with the works or with field practice.

ARQU 4010 - Preparation for Study Tour for Architects

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

It prepares students to take advantage of a study trip to other countries. Development of skills for documentation and graphic analysis of works and sites. Research methods. Lectures on the history and architectural development of the place to be visited.

ARQU 4011 - Architectural Projects-Intermediate

Five credits. Sixteen hours of lab per week. Prerequisites: ARQU 3113, 3082,

4002.

Third course in the series of courses in architectural design required by the architecture program.

ARQU 4012 - Architectural Projects-Intermediate

Five credits. Sixteen hours of lab per week. Prerequisites: ARQU 4011, 4016,

4021.

Fourth course in the series of courses in architectural design required by the architecture program.

ARQU 4015 - Study Tour for Architects

Three credits. Forty hours of research.

An experience with the outside world in which architectural values are sought and studied in comparison with the works or with field practice.

ARQU 4016 - Architecture Technology I

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisites: ARQU 3112, 3114 and 3082.

Introduction to the study of the environment including: topography, climate, orientation, landscape, etc.

ARQU 4017 - IIA Architecture Technology

Two credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: ARQU 4016.

Continuation of an introduction to non-mechanical environmental controls, with special emphasis on topics such as: hygiene, light and sound.

ARQU 4018 - IIB Architecture Technology

Two credits. One hour of lecture and two hours of laboratory time per week. Prerequisite.

ARQU 4019 - Architecture Technology III

Two credits. One hour of lecture and two hours of laboratory time per week. Prerequisites: ARQU 4017, 4018.

Environmental and construction analysis techniques including: areas, spaces and human activities, light, sound, hygiene, energy and building materials with their values as means of architectural expression.

ARQU 4025 - Architecture Technology IV

Three credits. One hour of lecture and two hours of laboratory time per week. Prerequisites: ARQU 4017, 4018.

Techniques of environmental and construction analysis including areas, spaces and human activities, light, sound, hygiene, energy and building materials with their values as means of architectural expression.

ARQU 4026 - Construction Drawings and Specifications

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisite: ARQU 4025.

Development of a complete set of construction plans in its architectural part. Partial or schematic development of electrical, structural, and mechanical drawings. Preparation of a complete set of specifications.

ARQU 4030 - Seminar on Intermediate Architectural Design

Five credits. Sixteen hours of workshop and laboratory per week. Prerequisites: authorization from the Dean of Architecture, ARQU 4002 or its equivalent.

Seminar on architectural design at an intermediate level through which the student will be able to accelerate their development as a designer, pursuing special interests and academic value, delving into fields and topics covered in the other design courses.

ARQU 4031 - Structure III

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisite: ARQU 4022.

Introduction to the study of structural systems. Loads, safety factor. Dimensioning of structural members.

ARQU 4032 - Structure IV

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisite: ARQU 4022.

Introduction to the study of structural systems. Loads, safety factor. Dimensioning of structural members.

ARQU 4036 - Natural Lighting in Architecture

Three credits. Two hours of lecture per week. Prerequisite: ARQU 4017.

Influences of modifications of architectural form and environmental design on the natural lighting of buildings to meet the perceptual needs of human beings. Analytical concepts, methods and procedures, fundamental to their usefulness in designing suitable naturally lit spaces.

ARQU 4037 - Natural Ventilation in Architecture

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisites: ARQU 4017- 4312.

Influences of modifications of architectural form and environmental design on natural ventilation, and their implications on the thermal well-being of human beings, with emphasis on the particularities of the humid tropical climate. Analytical concepts, methods and procedures, fundamental to their usefulness to adequately design naturally ventilated spaces.

ARQU 4045 - Theory of Architecture I

A credit. An hour and a half of lecture a week. Corerequisite: ARQU- 4133.

Introduction to the phenomenological concept of the building task and the effects that the environment, the region and culture have on the architectural work.

ARQU 4046 - Theory of Architecture II

A credit. An hour and a half of lecture a week. Prerequisites: ARQU-4045, HUMA-3012. Corerequisite: ARQU-4134.

Form in architecture from its conception. The historical and technical determinants of form.

ARQU 4047 - Theory of Architecture III

A credit. An hour and a half of lecture a week. Corerequisite: ARQU- 4135.

Architectural technique and expression: materials, structure, organizational systems, and how they reflect society's aspirations.

ARQU 4048 - Theory of Architecture IV

A credit. An hour and a half of lecture a week. Corequisite: ARQU- 4136.

The content of the architectural work: symbology, signification, semiotics and architectural representation.

ARQU 4115 - Introduction to Professional Practice

Three credits. Three hours of lecture a week. Prerequisite: Be accepted into the program.

This course exposes the student to the role of the architect in society and the construction industry. The architect will be presented as a managing designer, regulator of the quality of the process, as a leader of the construction process and its relationship with other components of the industry. You will also study the nature of your education, how it evolves from university to practice, the nature of their professional practice. Its relationship with the state and the professional, economic and technical factors that have affected it. You will learn about the main laws that regulate the profession, have an introduction to its ethical principles and the professional options to the traditional practice of architecture. At the end of the course, the student will have information to understand the role of the architect in the construction industry, his or her duties and responsibilities, will know the participants in the process and their relationship with them and will have general knowledge of the regulations of the activities that make up the practice and their nature.

ARQU 4133 - Intermediate Architectural Design I

Five credits. Two hours of lecture and ten hours of workshop per week. Prerequisite: ARQU-3134.

The course focuses on mixed-use building development and design in complex and historic urban contexts. It will handle technical conditions, construction systems and mechanical, as well as applicable codes and regulations. Develop skills in the use of representation tools and management of scales to understand the role of drawing, modeling and presentation as essential tools for exploring and communicating architectural ideas. Students will continue to expand their knowledge of architects and their works, whose experiences are relevant in the history of architecture.

ARQU 4134 - Intermediate Architectural Design II

Five credits. Two hours of lecture and ten hours of workshop per week. Prerequisite: ARQU-4133.

The course is focused on the design of multi-family housing buildings, taking into account physical-environmental considerations, construction systems, material resistance, building operational requirements and established regulations.

The student will continue to develop representational skills and tools, and will be trained in the use of environmental simulation tools. You will continue to expand your knowledge of architects and their works, whose contributions are relevant in the history of architecture. Face-to-face, online and hybrid course.

ARQU 4135 - Advanced Architectural Design: Architecture as an Urban Component

Five credits. Two hours of lecture and ten hours of workshop per week.

Prerequisite: ARQU-4134, ARQU-4322, ARQU-4312.

The workshop exposes the student to the understanding of the relationship between the building as a constituent of an urban enclave and the city. It is focused on the understanding and exploration of the city as a collective and complex organism made up of its inhabitants, social rituals, operational uses, ecology, economy and adaptation to the physical context: geographical/topographical/climatic. The student will be confronted with the design of the building as a multifunctional urban component and the way in which it is coordinated to establish a sense of overall 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 environmental assessment guidelines, programs and systems with greater acceptance in the contemporary industry of design and construction of the built environment. Face-to-face, hybrid and online course.

ARQU 4136 - Advanced Architectural Design: Building Anatomy

Five credits. Two hours of lecture and ten hours of workshop per week.

Prerequisite: ARQU-4134, ARQU-4322, ARQU-4312.

The workshop proposes a process of synthesis, applied to a medium-scale architectural project that integrates symbolic, spatial, structural and technical aspects with the sensitivity imposed by integration into the urban context. It focuses on both creativity and technical rigor to bring the proposed idea to fruition. The student works from the formulation of a problem that arises from the urban enclave and the program of uses. It develops the building considering the requirements and encumbrances imposed by technical and regulatory issues so that the building becomes a habitable reality, including aspects to make it technologically sustainable and resilient. Create drawings at different scales (location plans, cuts, and construction details). The capstone project must demonstrate the integration of technologies from the associated disciplines: civil, structural, plumbing, electrical, firefighting, mechanical ventilation, and computing. This course will be offered hybrid, face-to-face, and online.

ARQU 4145– Research Techniques in Architecture

Two credits. Two hours of lecture per week. Prerequisites: Admission to the Baccalaureate program.

The course exposes the student to know the fundamental concepts and research methods for their application to the field of architecture. In it, through practical exercises, skills and competencies in research techniques are developed so that the student learns to define a problem, carry out a theoretical reflection and define research methods, selecting and using tools that allow them to rigorously develop research based on the collection and analysis of data. The student is exposed to basic writing and style guides, the correct handling of images and the use of available bibliographic resources, through the search in local and international databases. In addition, they are exposed to workshops supported by the Library's staff and resources and are taught to know the ethical and legal implications regarding the use of information. Face-to-face, hybrid and online course.

ARQU 4146– Theory and Critique of Architecture

Three credits. Three hours of lecture a week. Prerequisite: ARQU4213.

The course explores in depth the theory and critique of architecture, emphasizing intersections with other disciplines. To this end, authors, ideas and works will be studied not only from theoretical proposals specific to architecture, but also from those that the sciences and humanities can contribute to the understanding of the processes of conceiving and constructing the spaces we inhabit. By the end of the course, students will have understood the value of defining an interdisciplinary agenda 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 analysed them would therefore be a way of encouraging students to establish paths for the analysis of an architectural problem and for the formulation of proposals for its approach or solution. This course will be offered face-to-face, hybrid, and online.

ARQU 4211 - History of Architecture I: The Invention of the Classical

Three credits. Three hours of lecture a week. Prerequisites: ARQU 3121 or by special permit.

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 its conceptions to the intellectual wealth of the late Middle Ages. By discussing works and texts that exemplify similarities and contrasts between these civilizations in their geographical, political, and technological context, the course will promote a critique of the belief in common roots in Western architecture. In addition, it will explore continuities and differences in the building practices of different times, regions and cultures to reflect on the successive relationships that our culture has established with its past, especially the idea of an architectural heritage that we call "classical", common to the West. Face-to-face, hybrid and online course.

ARQU 4212 - History of Architecture II: Genealogy of Modernity

Three credits. Three hours of lecture a week. Prerequisite: ARQU 4211.

The course provides students with a panoramic view of the transformations of architectural and urban practice and 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, the class will familiarize students with the thinkers, the context, and the works that founded the ideology of modern architecture. On the other hand, critical inquiry will be promoted into the set of treatises, history texts and works that played a key role in defining the discipline of architecture as we understand it today and on both sides of the Atlantic. This course will be offered face-to-face, hybrid, and online.

ARQU 4213 - History of Architecture III: Architecture and Contemporary Urbanism

Three credits. Three hours of lecture a week. Prerequisite: ARQU 4211

The course presents the main responses that architects gave to the problems of modernization, industrialization, immigration to cities, and the political or social conflicts that have affected humanity in the last century. It will study the European avant-gardes of the first three decades of the twentieth century, architecture during and immediately after the Second World War, and the urban visions that

have permeated debates on cities up to the present. At the same time, students will critically consider 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 that have often been observed by twentieth- and twenty-first-century architects with Latin American cultural and identity specificities in relation to the rest of the world. Face-to-face, hybrid and online course.

ARQU 4214 - History of Architecture in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisites: ARQU 4211, 4212, 4213.

It is an overview of architectural events in Puerto Rico from pre-Columbian times to the present day. The class offers the student knowledge about the urban development of the island's cities and towns, about the transformations and trends in architecture, as well as the historical development of the architecture profession in Puerto Rico. Face-to-face, hybrid and online course.

ARQU 4215 - History and Theory of Architecture in Latin America

Three credits. Three hours of lecture a week. Prerequisite: ARQU 4214 or permit.

It is a panoramic course in the architecture and development of Latin American cities from pre-Columbian times to the present day. The thematic and chronological course uses the geographies of the Latin American territory and its history – the Caribbean, Mexico and Central America, the Andean region, Brazil, and the Southern Cone – as a backdrop to understand the architectural and urban production of each region.

ARQU 4310 - Introduction to Technology

Three credits. Three hours of lecture a week. Prerequisite: Acceptance to the program.

This course deals with the current means and methodologies in construction technology and their integration into architectural design. Through a series of lectures and readings of different selected texts, the student will be confronted with the different options available to them when facing analytical problems, the development of construction documents, the selection of materials and the management of structural and mechanical systems. The course will examine the different structural resources, materials and building systems that are used in most buildings and become familiar with the use of technology and the evolution of these systems, from antiquity to the present, with an emphasis on the developments achieved in recent times.

ARQU 4311 - Technology I

Three credits. Three hours of lecture a week. Prerequisites: ARQU-3046, ARQU-3522.

Human beings and their interrelation with the environment. Concepts about the natural environment and its modification for the well-being of human beings. Passive or natural environmental control systems with emphasis on the particularities of the warm and humid tropics. Application of these principles in architectural design. Face-to-face, hybrid and online course.

ARQU 4312 - Technology II

Three credits. Three hours of lecture a week. Prerequisite: ARQU 4311.

Considerations for the analysis of a particular site: the constraints and requirements for site selection and development, soil studies, drainage, and grading. Construction materials and methods: their characteristics, properties, processing, behavior and finishes. This course will be offered face-to-face, hybrid, and online.
of

ARQU 4313 - Technology III: Building Systems

Three credits. Three hours of lecture a week. Prerequisite: ARQU 4312.

The course promotes the discussion and study of the different mechanical systems that are part of the design of buildings. It is essential to consider how to integrate mechanical systems into the constitution of a building and their potential to affect the shape, texture and character of the built environment. The student will be provided with a general understanding of the theory and practice of mechanical systems in terms of environmental control, the different air conditioning systems, climatology, plumbing, fire safety, mechanical circulation systems, and their application to architectural work. All of the above will be discussed in light of the requirements set by the applicable regulations for commercial and residential projects, with an emphasis on vernacular, traditional solutions

y contemporary. Face-to-face, hybrid and online course.

ARQU 4321 - Structures I

Three credits. Three hours of lecture a week. Prerequisites: ARQU 3046, 3522.

Introduction to the study of structures. Principles and concepts of statics and strength of materials. Study of systems of forces and the laws of static equilibrium. Types of support and their reactions, the use of free body diagrams in the analysis of structures. Internal unit axial forces and axial strains. The stress-strain curve of a material

and stresses due to changes in temperature. Mechanical properties of materials.

Application of these concepts in the analysis of simple structures, trusses, axial spatial systems, hydrostatic pressure and friction. Face-to-face, hybrid and online course.

ARQU 4322 - Structures II

Three credits. Three hours of lecture a week. Prerequisite: ARQU 4321.

Continuation of the material strength study. Design loads and code requirements. Shear and bending moments in beams, shear diagrams and moments. Unit bending and shear stresses. Deformations in beams. Application of these concepts to wood and steel beams. Columns, buckling of columns. Gravitational loads and lateral loads. Face-to-face, hybrid and online course.

ARQU 4323 - Structures III

Three credits. Three hours of lecture a week. Prerequisites: ARQU 4321, 4322.

Structural analysis. Concepts of stability and static determination. Analysis of statically indeterminate structures. Superfluous reaction method. Distribution of moments. Approximate methods for continuous beams. Portal method for side loads. Face-to-face, hybrid and online course.

ARQU 4324 - Structures IV

Three credits. Three hours of lecture a week. Prerequisite: ARQU 4323.

Fourth course in the sequence of structures for architects. Design of reinforced concrete structures. Analysis and design of reinforced slabs in one direction, beams, columns, walls. Discussion of the code of the a.c.i. applications.

ARQU 5005 - CAD I Workshop

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

Prerequisites: ARQU 3615 or teacher's permission.

Use of computers for the production of design presentations and other construction documents. Fundamental concepts common to all CAD systems; development of skills to produce drawings and presentations; Integration of products from different applications in the development of drawings and in the analysis of design projects. Face-to-face, hybrid and online course.

ARQU 5006 - Computer Graphics 3D Modeling

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

Prerequisites: ARQU 3615 or teacher's permission.

Introduction to three-dimensional modeling using visual programming language for computer graph generation and its applications. Fundamentals for the design of algorithms and data structures for the creation of models or graphic images using the programming language. This course will be offered in face-to-face, hybrid and online modalities.

ARQU 5030 - Advanced Architectural Design Seminar

Five credits. Two hours of lecture and ten hours of workshop per week.

Prerequisite: Dean's authorization.

Seminar on architectural design at an advanced level through which the student will be able to accelerate their development as a designer, pursuing special interests and academic value and delving into fields and topics open to other design courses. The course can be repeated up to a maximum of ten credits, as long as they deal with different topics.

ARQU 5995 - Research and Fieldwork Seminar

One to three credits. One to three hours a week. Prerequisite: authorization from program coordinators and permission from the professor.

Seminar open to high school and master's students aimed at research and fieldwork on a chosen topic to expand and promote knowledge on that topic and the enrichment of the curriculum.

Topic: Fundamentals of Differential and Integral Calculus. P. H. Online.

Theme: Pre-Columbian and Colonial Cities and Architectures in Latin America. P. H. Online.

Topic: Curating/Showing: Theory and Practice of Exhibition. P. H. Online.

Topic: GIS (Geographic Information Systems) P. H. Online.

Topic: Architecture and Visual Design. P. H. Online.

Topic: Seismic Response Evaluation and Possible Mitigation Measures for Homes with Weak Floors Typical of Puerto Rico. P. H. Online.

Topic: DIM-REVIT Digital Visual Communication. P. H. Online.

FACULTY OF COMMUNICATION AND INFORMATION

Interim Dean: Dr. Jorge Santiago Pintor

Interim Associate Dean for Academic Affairs: Prof. Yomarie García De Jesús

Assistant Dean of Student Affairs: Dr. Héctor Aponte Alequín

Assistant Dean for Administrative Affairs: Ms. Nixzaliz Vega Gutiérrez

Academic Coordinator of the Graduate Program in Information Sciences: Dr. *Noraida Domínguez Flores* Academic Coordinator of the Graduate Program in Communication: Dr. *Rubén Ramírez Sánchez* Coordinator of the Audiovisual Communication Program: Prof. *Carlos García Arce* Coordinator of the Journalism and Information Program: Dr. *María de Lourdes Lugo Ortiz* Coordinator of the Public Relations and Advertising Program: Dr. *Iván de la Cruz Cuebas* Coordinator of the Center for Research in Information and Communication (CIICom): Dr. *Carlos Suárez Balseiro* Coordinator of Technical Services to the User I: Mr. *Miguel Méndez Rodríguez* Student Affairs Officer: Ms. *Ana de Jesús Santana* Orientation Officer: Ms. *Nilka Falú Sánchez* Administrative Officer: Ms. *María Ivette Martínez Díaz* Executive Secretary: Ms. *Yolanda Echevarría Zayas*

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HISTORY

The Faculty of Communication and Information (FaCI) was established in 2021 by administratively merging the School of Communication (EC) with the Graduate School of Information Sciences and Technologies (EGCTI). The creation of this faculty led to the integration and strengthening of two disciplines to end; Communication and Information Sciences and Technologies. Both areas of knowledge share the same research dimension, as they focus their respective perspectives on phenomena relevant to the generation, management and transmission of information through various technologies, from the basic form of language to the web. Today, information, within the context of digital convergence in which we are inserted, fluctuates between a range of cultural, utilitarian and power dimensions that are widely studied by these disciplines. It should be noted that, at the time of this union, the EGCTI was already 52 years old (1969), while the EC was 49 years old (1972); first graduate program in communication to be offered in Puerto Rico.

Undergraduate and graduate programs are offered at FaCI. At the graduate level, we have a Master's Program in Communication with two specialties: Journalism and Theory and Research, and a Master's Program in Information Sciences and Technologies that offers the following academic degrees: Post-Baccalaureate Certificate Records and Archives Administrator, Post-Baccalaureate Certificate Master Librarian - Distance Learning, Master of Science of Distance Information (with two areas of emphasis: Library Science and Information Science,

and another in Knowledge Management) and the Post-Master's Certificate in Public and Special Academic Library Administration. At the undergraduate level, since 2002, after a vast curricular review, we have a Bachelor's Degree in Communication with three concentrations: Information and Journalism, Audiovisual Communication, and Public Relations and Advertising.

In May 2012, the previous EC managed to position itself as the first program in Puerto Rico and the Caribbean to receive professional accreditation from the *Accrediting Council on Education in Journalism and Mass Communication (ACEJMC)*, a distinction it holds today. Since 1989, EGCTI has been accredited by the *American Library Association*, and is still the only program in Puerto Rico, the Caribbean and Latin America recognized by this organization. In addition, in 2007, the Master Librarian Certificate became the first fully distance learning program approved for the Río Piedras Campus and the University of Puerto Rico System. This paved the way for diversifying the academic offer that our university system has today.

The main objective of the Baccalaureate Program is to train professionals with critical, intellectually and culturally trained and competent awareness to work in the media, written press, radio, television and cinema, as well as in advertising and public relations agencies. Likewise, the mission of the Master's Program in Communication is to train professionals in the design, planning and research of Communication and to promote excellence and social responsibility in the media. While the Graduate Program in Information Sciences and Technologies is distinguished by training professionals in tune with the new trends in the field of information and the demands of society. Baccalaureate students with a concentration in Public Relations and Advertising are directed to the research, creation and development of communication strategies with a critical sense and social responsibility. The concentration in Audiovisual Communication fosters in students the creative and theoretical activity that will allow them to develop, direct, produce or critique the various expressions of audiovisual communication: film, photography, multimedia and others. The concentration in Information and Journalism is aimed at providing students with a thorough understanding of the importance of the role of the press in society, as well as the need to practice this profession responsibly and ethically.

As part of the academic experience, FaCI provides high school students with classrooms equipped with state-of-the-art technology and programming used in the communications industry, editing rooms, newsrooms, and supervised internships in the areas of journalism, film, radio, television, public relations, and advertising. These supervised practices are carried out both at WRTU (Radio Universidad de Puerto Rico) and at other public agencies or private companies.

STUDENT SERVICES

- Counseling services
- Academic advising
- Center for Research in Information and Communication and Media Lab
- Supervised internship at Radio Universidad de Puerto Rico (WRTU)
- Academic Accompaniment Program

DEGREES AWARDED

The Faculty of Communication and Information awards: Bachelor of Arts in Communication concentrations in: Audiovisual Communication, Public Relations and Advertising and Information and Journalism.

with

The graduate program of the Faculty of Communication and Information grants the following degrees: Master of Arts with specialties in: Journalism and Theory and Research; Certificate

Post-baccalaureate in Records and Archives Administrator; Master's Degree in Information Science via Distance Learning; Postmaster's Certificate in Public and Special Academic Library Administration

ACCREDITATIONS

FaCI is accredited by the *Accrediting Council on Education in Journalism and Mass Communications* (ACEJMC), the agency responsible for evaluating professional programs in journalism and communication at universities.

In addition, the Information Sciences graduate program is the only one accredited in Puerto Rico by the American Library Association (ALA).

ADMISSION REQUIREMENTS

The student applying must meet the income ratios (IGS) required for the concentration they are applying for. Admission is made in descending order until the quotas established by concentration are reached.

READMISSIONS

FaCI accepts readmission students the first semester of each academic year. Category Types:

- Readmission of FaCI students who have not completed their Baccalaureate, a minimum GPA of 2.50 is required.
- Students from other Faculties who have completed their Baccalaureate, a minimum GPA of 3.30 is required.

RECLASSIFICATION

Meet the minimum required GPA of 3.00. FaCI accepts students for both semesters of the academic year. The student interested in reclassification must not have more than 75 credits passed at the institution of origin at the time of application.

TRANSFER

If you have less than 24 approved credits at the University of Puerto Rico:

- Must have satisfactory academic progress according to the indices in the Retention Tables.
- Have a General Application Index (IGS) value for new admission equal to or greater than the minimum established for the year in which the student was admitted.
- If you have more than 24 credits passed at the University of Puerto Rico:
 - o Must have satisfactory academic progress according to the indices in the Retention Tables.
 - o Meet other criteria established for the program to which you wish to be admitted.

If you have more than 24 credits passed at the University of Puerto Rico, you must have a minimum GPA of 3.00.

TRANSFER

For students active in universities or institutions of higher education outside the UPR System: must have a minimum of 30 approved credits at the time of application and meet the minimum required GPA of 3.00.

SECOND CONCENTRATIONS

- Second Concentration - Students from another Faculty: The student must declare their intention to obtain a Second Concentration in their second year of study in order to complete this option in par with the requirements of their Baccalaureate in which they are

classified and within 150 percent of the prescribed time: credits in first concentration courses on a case-by-case basis, and meet the minimum required GPA: 3.00.

- Second Concentration - FaCI Students: The student must have passed a minimum of 9 credits of their first concentration and meet the minimum GPA required for the requested concentration: 3.00.
- Students who have already completed high school must meet the minimum required GPA of 3.00.

GRADUATION REQUIREMENTS

Students will be required to pass 120 credits. In addition, you will need to comply with the following:

- Have an overall GPA of 2.00.
- Have met all the requirements of their concentration in communication, according to the approved concentration sequence.
- Comply with all general graduation requirements established by the Río Piedras University Campus.

STUDY PROGRAMS

GENERAL PROGRAMME: AUDIOVISUAL COMMUNICATION

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CISO 3121– (general education)	3	CISO 3122– (general education)	3
ESPA	3	ESPA	3
TAMALE	3	TAMALE	3
ENGLISH	3	ENGLISH	3
COPU 4355 - Theories of Communication or COPU 4017 - Introduction to Media	3	COPU 4137– Fundamentals of Media Writing	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI or CIFI	3	CIBI or CIFI	3
ENGLISH	3	ENGLISH	3
History of Puerto Rico	3	ART	3
COMA 4011 - Basic Photography	3	ESIN 4077 - Introduction to Scientific Research in Communication	3
COMA 4315 - Scripts	3	Logical Mathematical Thinking or Quantitative Analysis	3

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
COMA 4317 - Digital Graphics Design	3	ESIN 4008 - Theories of Signification and Culture	3
COMA 4341 - Film Production I or COMA 4351 - Television Production I or COMA 4361 - Radio Production I	3	COMA 4342 - Film Production II or COMA 4352 - Television Production II o COMA 4362– Radio Production II	3
COPU 4365 - Media Legislation and Information Ethics	3	LITE (General Education)	3
LITE (General Education)	3	Free Elective	3
Free Elective	3	Elective in Liberal Arts	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
COMA 4810 - Radio Seminar or COMA 4815 - Film Seminar or COPU 4817 - Television Seminar	3	COPU 4045 - Advanced Seminar in Communication	3
Free Elective	3	Electives in Liberal Arts	3
Elective in Liberal Arts	3	Electives in Liberal Arts	3
Elective in Liberal Arts	3	Elective in Liberal Arts	3
Elective in Liberal Arts	3	Elective in Liberal Arts	3

TOTAL CREDITS 120**GENERAL PROGRAM: INFORMATION AND JOURNALISM****FIRST YEAR**

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CISO 3121 - (general education)	3	CISO 3122 - (general education)	3
ESPA	3	ESPA	3
TAMALE	3	TAMALE	3
ENGLISH	3	ENGLISH	3
COPU 4355 - Theories of Communication or COPU 4017 - Introduction to Media	3	COPU 4137– Fundamentals of Media Writing	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI or CIFI	3	CIBI or CIFI	3
ENGLISH	3	ENGLISH	3
Elective in Liberal Arts	3	ESIN 4077 - Introduction to Scientific Research in Communication	3
INFP 4016 - Introduction to Journalism	3	INFP 4148– Copywriting for Convergent Media	3
Logical, Mathematical Thinking or Analysis	3	Free Elective	3

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
Quantitative			

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
COPU 4365 - Media Legislation and Information Ethics	3	ESIN 4008 - Theories of Signification and Culture	3
INFP 4205 - Seminar in Communication or INFP 4809 - Seminar in Journalism	3	INFP 4059 - Journalism for Radio and Television	3
INFP 4001 - Journalistic Writing I	3	Free Elective	3
History of Puerto Rico	3	Elective in Liberal Arts	3
Free Elective	3	ART	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
INFP 4036 - Design and Techniques of Multimedia Journalism	3	COPU 4045 - Advanced Seminar in Communication	3
INFP 4002 - Journalistic Writing II	3	Electives in Liberal Arts	3
Elective in Liberal Arts	3	Electives in Liberal Arts	3
Elective in Liberal Arts	3	Elective in Liberal Arts	3
LITE (General Education)	3	LITE (General Education)	3

TOTAL CREDITS: 120

GENERAL PROGRAM: PUBLIC RELATIONS AND ADVERTISING

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CISO 3121- (general education)	3	CISO 3122- (general education)	3
ESPA	3	ESPA	3
TAMALE	3	TAMALE	3
ENGLISH	3	ENGLISH	3
COPU 4355 - Theories of Communication or COPU 4017 - Introduction to Media	3	COPU 4137- Fundamentals of Media Writing	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI or CIFI	3	CIBI or CIFI	3
ENGLISH	3	ENGLISH	3
REPU 4018 - Introduction to Advertising and Public Relations	3	REPU 4147 - Writing for Public Relations or	3

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
		REPU 4025 - Copywriting for Advertising	
ESIN 4077 - Introduction to Scientific Research in Communication	3	REPU 4155 - Media Planning	3
Logical Mathematical Thinking or Quantitative Analysis	3	Free Elective	3

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
COPU 4365 - Media Legislation and Information Ethics	3	ART	3
REPU 4076 - Conceptualization of Ads for Audio, Video, Press and New Technology	3	ESIN 4008 - Theories of Signification and Culture	3
History of Puerto Rico	3	REPU 4165 - Public Relations Campaigns	3
Free Elective	3	Free Elective	3
Elective in Liberal Arts	3	Elective in Liberal Arts	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
Elective in Liberal Arts	3	COPU 4045 - Advanced Seminar in Communication	3
Elective in Liberal Arts	3	Electives in Liberal Arts	3
Elective in Liberal Arts	3	Electives in Liberal Arts	3
REPU 4166 - Advertising Campaigns	3	Elective in Liberal Arts	3
LITE (General Education)	3	LITE (General Education)	3

TOTAL CREDITS: 120

FACULTY OF COMMUNICATION SCHOOL

- Albert Trinidad, Ramaris; Ph.D., Universidad Complutense de Madrid, 2015; Assistant Professor.
- Álvarez Curbelo, Silvia; Ph.D., University of Puerto Rico (Río Piedras), 1998; Professor.
- Aponte Alequín, Héctor; Ph.D., University of Puerto Rico (Río Piedras), 2014; Assistant Professor.
- Burgos Ostolaza, Esther María; M.A., University of Puerto Rico (Río Piedras), 1983; Instructor.
- Colón Zayas, Eliseo; Ph.D., University of Pittsburgh, 1982; Professor.
- Coss Pontón, Luis Fernando; Ph.D., University of Puerto Rico (Río Piedras), 2007; Professor.
- De la Cruz Cuebas, Iván; Ph.D., Open University of Catalonia, 2013; Associate Professor.
- De Souza, Claudia D.; Ph.D.; Universidad Carlos III de Madrid (Spain), 2018; Assistant Professor.
- Díaz Rodríguez, Héctor; M.A., Inter-American University of Puerto Rico, 1977; Associate Professor.
- Dominguez Flores, Noraida; Ph.D., Nova Southeastern University, 2010; Associate Professor.
- Flores Caraballo, Eliut; Ph.D.; University of Texas (Austin), 1991; Professor.
- García Álvarez, Ana María; Ph.D., University of Puerto Rico (Río Piedras), 2012; Associate Professor.
- García Arce, Carlos; M.A., University of Seville (Spain), 2013; Instructor.
- García de Jesús, Yomarie; M.A., University of Puerto Rico (Río Piedras), 2004; Instructor.
- Gonzalez Diaz, Jorge; Ph.D., Arizona State University, 2015; Assistant Professor.
- Gracia Machuca, Rafael G.; Ph.D., University of La Laguna (Spain), 2000; Associate Professor.
- Lugo Ortiz, María de Lourdes; Ph.D., University of Wisconsin-Madison, 1994; Professor.
- Morales Alequín, Beatriz; Ph.D., University of Puerto Rico (Río Piedras), 1982; Professor.
- O'Neill Becerra, María de Mater; DDP, Northumbria University (Newcastle Upon Tyne- United Kingdom), 2014; Assistant Professor.
- Ramírez Sánchez, Rubén; Ph.D., University of New Mexico (Albuquerque), 2007; Associate Professor.
- Reyes Velázquez, Wanda; Ph.D.; The Pennsylvania State University, 2005; Assistant Professor.
- Rivas Vélez, Alfredo E.; Ph.D.; University of Puerto Rico (Río Piedras), 2012; Assistant Professor.

- Rivera González, José A.; Ph.D., University of Puerto Rico (Río Piedras), 2003; Professor.
- Roche Morales, Mario Edgardo; Ph.D., Complutense University, 2003; Professor.
- Rodríguez Sánchez, Israel; Ph.D., Universidad Complutense de Madrid, 2016; Assistant Professor.
- Rodríguez Soto, Adeliza; Ph.D., University of La Laguna, 1996; Professor.
- Sánchez Lugo, José A.; Ed.D., Pennsylvania State University, 1998; Professor.
- Santiago Pintor, Jorge; Ph.D., University of Puerto Rico (Río Piedras), 2005; Professor.
- Santiago Torres, Amary; M.A., University of Puerto Rico (Río Piedras), 2008; Instructor.
- Seijo Maldonado, Haydeé J.; Ph.D., University of Illinois (Urbana-Champaign), 1998; Professor.
- Sepúlveda Rodríguez, Héctor; Ed.D., University of Puerto Rico (Río Piedras), 1996; Professor.
- Soto Ramírez, Nora; M.A., University of Puerto Rico (Río Piedras), 1986; Associate Professor.
- Suárez Balseiro, Carlos A.; Ph.D., Universidad Carlos III de Madrid, 2004; Professor.
- Torres Pagán, Mariliana; Ph.D., Center for Advanced Studies of Puerto Rico and the Caribbean, 2013; Assistant Professor.
- Torres Rodríguez, Jimmy; Ph.D., Pennsylvania State University, 1990; Professor.
- Vélez Natal, Betzaida; Ph.D., Columbia University, 1999; Professor.

COMMUNICATION COURSES

COMA 4011 - Basic Photography

Three credits.

Introductory course to the basic techniques of Digital Photography and Photographic Image management for high school students in Audiovisual Communication. The function of Photography as a means of visual communication will be taught through exercises. The topics are supported with readings and class discussion to develop the photographic language with an aesthetic, critical and self-critical vision to evaluate the quality of the image and its effectiveness. Face-to-face, online and hybrid course.

COMA 4021 - Color Photography

Three credits. Three hours of lecture a week. Prerequisite: COMA4011.

Study of the theory, technique and practice of color photography. Emphasis on the analysis of the development of color photography, its use and impact within the field of visual communication. Contextualization and conceptualization of his study within the contemporary market. This course replaces COPU 4021.

COMA 4022 - Digital Photography

Three credits. Three hours of lecture a week. Prerequisite: COPU 4011 y 4021.

Techniques and theories of digital photography with a practical approach to its use in visual media. This course replaces COPU 4022.

COMA 4038 - History of Cinema

Three credits. Three hours of lecture a week.

This course proposes the cinematographic medium as an object of study, in a reflection that uses the historical line as its main axis. The proposal includes moving through the development of cinema by observing salient points in the constitution of cinematographic genres, the emergence of significant authors, and the appearance of events that shaped the industrial and artistic apparatus of the medium. The course also seeks to put cinema in a particular perspective where its development as a form of artistic expression and as a business articulation is contextualized.

COMA 4047 - Silent Cinema (1985-1930)

Three credits. Three hours of lecture a week. Prerequisite: COPU 4015, COPU 4017.

Study of the development of cinema during the silent period. Analysis of the trends, figures and significant contributions of the period, which consolidated cinema as a seventh art. This course replaces COPU 4047.

COMA 4060 - Advanced Photo Printing

Three credits. Three hours of lecture a week. Prerequisite: COMMA 4011.

Theory and practice of black and white photographic printing. We will study the chemicals and photographic papers available and how to use them to produce the desired visual message. Emphasis will be placed on the practical aspect on the basis of sound theory. This course replaces COPU 4060.

COMA 4079 - Independent Studies

Three credits. Each independent study course will be worth three credits. Only six credits will be allowed in independent study. Prerequisite: Prior authorization from the principal.

The student and his/her tutor will determine the type of study and the literature to be reviewed. This course replaces COPU 4079.

COMA 4100 - Supervised Practice in Television

Three credits. One hour of lecture and twelve hours of workshop per week. Prerequisite: COMA4352 and permission from the school principal

Relate the student to a work experience in the medium of television so that he/she integrates the knowledge, skills, abilities and attitudes acquired during his/her academic life. The student will be working directly with professionals in the area of television.

COMA 4105 - Supervised Radio Practice

Three credits. One hour of workshop per week. Prerequisite: COMA4362 and permission of the principal.

Relate the student with a work experience in the radio medium so that he/she integrates the knowledge, skills, abilities and attitudes acquired during his/her academic life. The student will be working with professionals in the area of Radio.

COMA 4106 - Supervised Practice in Film

Three credits. One hour of lecture and twelve hours of workshop per week. Prerequisite: COMA4342 and permission of the principal.

Relate the student to a work experience in the field of cinema so that he/she integrates the knowledge, skills, abilities and attitudes acquired during his/her academic life. The student will be working with professionals in the area of Cinema.

COMA 4116 - Independent Studies in Film

Three credits. Only up to a maximum of six credits will be allowed in independent study. Prerequisite: Principal's permission.

The student and his/her tutor will determine the type of studies and literature to be reviewed in the field of film. This course replaces COPU 4116.

COMA 4135 - Independent Television Studios

Three credits. Only up to a maximum of six credits will be allowed in independent study. Prerequisite: Principal's permission.

The student and his/her tutor will determine the type of study and literature to be reviewed in the field of television. This course replaces COPU 4135.

COMA 4187 - Film Theory and Criticism

Three credits. Three hours of lecture a week.

Analysis of industrial-artistic aspects of cinema. Study of the development and contribution of cinematographic art to society. Face-to-face, hybrid and online course. Dual coding course with ESIN 4187.

COMA 4315 - Scripts

Three credits. Three hours of lecture a week.

This course exposes students to the theoretical and practical aspects related to the conception, development and writing of scripts for visual media. Face-to-face, online and hybrid course.

COMA4317 - Digital Graphics Design

Three credits. Three hours of workshop per week.

Introduction to multimedia graphic design through the study and use of digital tools for the creation, composition and editing of vector and pixel graphics. The course will introduce the elements and principles of design for graphic production, examine pertinent examples of digital graphic work, and introduce the student to basic and intermediate operations of vector and pixel programs for the production of digital graphics. Face-to-face, online course
e hybrid.

COMA4319 - Elements of Graphic Production

Three credits. Three hours of lecture a week. Prerequisite: COMMA 4317.

Theory and Practice of Producing Graphic Materials for Visual Media
e printed. This course replaces COPU 4319.

COMA4325 - Computer Production

Three credits. Three hours of lecture a week. Prerequisite: COMA 4317 and director's permission.

Integration of theoretical and practical elements of computer graphics for the production of specialized communication projects. Conceptualization, design and realization of a communication project. This course replaces COPU 4325.

COMA 4341 - Film Production I

Three credits. An hour and a half of lecture, an hour and a half of discussion and three hours of workshop per week. Prerequisite: COMMA 4315.

This course proposes the technical, artistic and administrative preparation of a student in the field of Cinema. Within the parameters of a university course, we try to confront the student with the experience of film production from various aspects that affect it. The approach begins by establishing a direct relationship between theoretical models and the understanding of the language of the medium, in such a way that the link between this relationship and the conceptualization and construction of the cinematographic text can be seen. Face-to-face, online and hybrid course.

COMA 4342 - Film Production II

Three credits. An hour and a half of lecture, an hour and a half of discussion and three hours of workshop per week. Prerequisite: COMMA 4341.

Advanced study of theory and practice for film production and direction. Face-to-face, online and hybrid course.

COMA 4351 - Television Production I

Three credits. An hour and a half of lecture, an hour and a half of discussion and three hours of workshop per week. Prerequisites: COPU 4017, COMMA 4315.

Study of theory and practice for television production and direction. Face-to-face, online and hybrid course.

COMA 4352 - Television Production II

Three credits. An hour and a half of lecture, an hour and a half of discussion and three hours of workshop per week. Prerequisite: COMMA 4351.

Advanced study of theory and practice for television production and direction. Face-to-face, online and hybrid course.

COMA 4361 - Radio Production I

Three credits. An hour and a half of lecture, an hour and a half of discussion. Three hours of workshop per week. Prerequisites: COPU 4017, COMMA 4315.

Study of theory and practice for radio production and management.

COMA 4362 - Radio Production II

Three credits. Three hours of lecture and three hours of workshop per week. Prerequisite: COMA4361.

Advanced study of theory and practice for the direction of radio programs.

COMA 4810 - Radio Seminar

Three credits. Three hours of seminar per week. Prerequisite: course or conditions that the teacher deems relevant.

Analysis and practice of the creative and production processes, as well as the industrial aspects of radio. This course replaces COPU 4810.

COMA 4815 - Seminar on Cinema

Three credits. Three hours of lecture a week. Prerequisite: course or conditions that the teacher deems relevant.

Analysis of industrial-artistic aspects of cinema. Study of the development and contribution of cinematographic art in society. This course replaces COPU 4815.

COMA 4817 - Seminar on Television

Three credits. Three hours of seminar per week. Prerequisite: course or conditions that the teacher deems relevant.

Analysis and practice of the television medium and its industrial, artistic-creative aspects and as a transmitter of messages. This course replaces COPU 4817.

COMA 4819 - Seminar on Visual Communication.

Three credits. Three hours of seminar per week.

Analysis, research and practice of the different types of visual communication and their adequacy according to the medium in which it is required. This course replaces COPU 4819.

COMA 4991 - Seminar on Audiovisual Practices

One to three credits. One to three hours of seminar per week. Prerequisites: COPU 4017 or COPU 4355.

Variable topics course aimed mainly at students of Audiovisual Communication in order to develop knowledge and practice in specific areas of media production. This course can be repeated under different topics up to a maximum of three credits.

COPU 4006 - Sociology of Communication

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Study of the political, social and manipulative function of the media. Analysis of the way in which the media serve the political system by facilitating the dissemination of ideology and programs of social and economic action. Analysis of the way in which social media help to shape public opinion by disseminating ideas that have a direct effect on the economic and social processes of society. How the media influence the organization and structure of social groups and their behavioral habits. Comparative analysis of the role of social media in countries of different structures: political, economic, capitalist and socialist.

COPU 4007 - Social Communication and Expression Rights in Port Rich

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

Study of the structure and organization of the laws that govern the media, mainly the rights of expression and their limitations.

COPU 4008 - Theories of Significance and Culture

Three credits. Three hours of lecture a week.

Study of the processes of symbolic and cultural production articulated through the plurality of networks and communicative exchanges, and generated by the different actors and mediators of the social fabric. Double coding course with ESIN 4008.

COPU 4009 - Composition and Style in Journalism

Three credits. Three hours of lecture a week.

Theory and practice in the art of encoding and processing information that allows the production of reliable and easy-to-understand messages. Insist on the correct use of language and appropriate style.

COPU 4013 - Photojournalism - Laboratory

Zero credits. Two hours of lab time per week. Prerequisite: COPU 4011.

The course will give special attention to laboratory work, development of new techniques, and the practice of different theories in photography.

COPU 4014 - Basic Photography - Laboratory

Zero credits. Two hours of lab time per week.

The course will give importance to laboratory work, in which the student will have the opportunity to practice the basic elements of photography.

COPU 4015 - Social and Critical Function of the Media

Three credits. Three hours of lecture a week.

Study of the role of the media in the dissemination of the positive values of Puerto Rican culture. Analysis of how the media can stimulate man's creative capacity in the production of goods and services that foster social dynamics and cohesion. How the media influence the formation of thinking men who affect the dynamics of society in order to facilitate the common good. The course aims to develop in the student an awareness of the various functions of organized social communication. Topics such as the following will be highlighted: social conformity, the structure of vested interests and how these are reflected in the media; the critical function of communication, the potential of the media as an innovative force in the development of ethical and aesthetic values, the freedom of the individual and his or her access to the media.

COPU 4017 - Introduction to Media

Three credits. Three hours of lecture a week.

Through lectures aimed at new students, the impact and social and technological development of the media is explored. In particular, the evolution, organization and structure of the media ecosystem, which integrates the press, photography, radio, film, television and the internet, is studied. This course is offered with face-to-face, hybrid, and online sections.

COPU 4019 - Communication and Its Effects on Social Behavior

Three credits. Three hours of lecture a week.

Study of the effects of communication on the social behavior of the individual. The social, economic and political impact of mass media, compared to the impact of interpersonal communication. The main causes of communication barriers in social systems will be analysed.

COPU 4020 - Film and Entertainment Criticism for Print and Electronic Journalism

Three credits. Three hours of lecture a week.

Introductory course to film and entertainment criticism that will concentrate on the fundamental principles for general criticism and will emphasize through practical exercises the preparation of the same for non-specialized publications, both printed (newspapers, magazines) and electronic (television and radio).

COPU 4025 - Communication in the Dissemination of New Techniques and Ideas

Three credits. Three hours of lecture a week.

Study of the communication process as an instrument of social change through the dissemination of new ideas and techniques. Analysis of the stages of the dissemination process and the use of the media in each of them.

COPU 4028 - Information and Behavior

Three credits. Prerequisite: COPU 4005.

The student will be provided with basic knowledge about the way in which the information received conditions the social behavior of the individual. The processes of socialization and learning will be studied in tune with the latest theories of communication.

COPU 4029 - Advanced Aspects of Communication Law

Three credits. Three hours of lecture a week. Prerequisite: COPU 4007.

Study of some constitutional and social aspects of the right to communication that affect the practice of journalism and advertising, namely, the freedom to obtain information from the government, the privilege of the journalist, the rights of the author and the regulation of commercial advertising.

COPU 4030 - Photography for Advertising

Three credits. Three hours of lecture a week. Prerequisite: COPU 4022.

The type of photography used in advertising will be studied. The technical and aesthetic demands of this field will be discussed and resolved through theoretical and practical experiences.

COPU 4039 - Fundamentals of Production and Direction in Cinematography

Three credits. Three hours of lecture and three hours of workshop per week. Prerequisite: COPU 4017.

Basic course in filmmaking. It will expose the student to modern techniques of film production and direction, such as, for example, camera movement, lighting, set design, sound effects, music, photographic composition. Every student will be required to go through the process of producing and directing a short film film.

COPU 4040 - Advanced Film Production & Direction

Three credits. Three hours of lecture and three hours of workshop per week.

Prerequisite: COPU 4039.

Film production will be studied as well as the technique used in this medium. Consideration will be given to the theoretical application focusing on some of the exponents. The experience will be enriched by the production of film sequences by the students.

COPU 4045 - Advanced Seminar in Communication

Three credits. Three hours of seminar per week. Prerequisites: having passed the core courses of the Baccalaureate in Communication, at least 18 credits of their concentration, and the authorization of the director or his/her representative.

The seminar will allow students in their final year of studies to put into practice what they have learned throughout their baccalaureate through the analysis and discussion of phenomena

The topic will be proposed by the teacher, in order to promote a critical media production from the different disciplines of communication. These alternative perspectives will be aimed at exposing, raising awareness or signifying these phenomena through creative and collaborative research approaches. Face-to-face, hybrid and online course.

COPU 4046 - Content Analysis of Movies Seen in Puerto Rico

Three credits. Three hours of lecture a week. Prerequisite: COPU 4017.

A critical analysis of the cinema exhibited in Puerto Rico during the last 40 years, from silent films to sound films. Analysis of the content of films from different periods and their relationship with the political, economic and social currents of the time. Film studies in terms of romantic cinema, gangster, suspense, fiction, political, historical and comedy. The student will have to prepare a work on the content analysis of cinema in a certain period.

COPU 4050 - The Photographic Portrait

Three credits. Three hours of lecture a week. Prerequisite: COPU 4011.

The theory and practice of photographic portraiture will be studied, including psychological, commercial, formal, public relations and other portraits. Lighting, background, and subject handling will be some of the techniques that will be discussed. The emphasis will be on the practical aspect through exercises and assignments.

COPU 4055 - Theory and Practice in the Production and Direction of Radio Programs

Three credits. Three hours of lecture and lab per week. Prerequisite: COPU 4017.

It deals with the study of the theoretical and practical principles of the production and direction of radio programmes. Attention will be paid to the production of dramatic, news, variety, educational, panel, interview, etc. programs. The theory will be complemented with practical exercises in each of the areas studied.

COPU 4057 - Basic Principles of Television Production and Directing

Three credits. Three hours of lecture and one hour of laboratory time per week. Prerequisite: COPU 4017.

The theoretical and practical bases of the production and direction of television programs will be studied. The course includes the production of scripts for television and their editing. The student will have to design its production and direction taking into account the costs of the program, props, visual effects, sound and camera movements, etc.

COPU 4066 - Group Dynamics

Three credits. Three hours of lecture a week. Prerequisite: COPU 4018.

Theory and practice in group dynamics. They will be examined in those phases of the communication process that concern the management of primary and secondary groups.

COPU 4070 - Advanced Photo Printing– Laboratory

Zero credits. Two hours of lab time per week. Prerequisite: COPU 4011.

The course will delve into the theory and practice of black and white photo printing. The chemicals and photographic papers available and how to use them to produce the desired visual message will be studied: the practical aspect will be given importance, starting from a solid theoretical base.

COPU 4077 - Introduction to Scientific Research in Communication

Three credits. An hour and a half of lecture and an hour and a half of laboratory per week. Prerequisite: COPU 4005.

Students are introduced to the field of scientific research applied to the media. The procedures and management of the research are studied, as well as the resources and bibliographic compilation. It also includes research methods such as: survey, field study, content analysis, discursive analysis, focus groups, in-depth interviews, and data management for statistical analysis. Face-to-face, hybrid and online course.

COPU 4080 - The Photographic Portrait– Laboratory

Zero credits. Two hours of lab time per week. Prerequisite: COPU 4011.

The theory and practice of photographic portraiture will be studied, including psychological, commercial, formal, public relations and other portraits. Lighting, background, and subject handling will be some of the techniques that will be discussed. Emphasis will be placed on the practical aspect, through exercises and assignments.

COPU 4095 - Production and Direction of Radio Programs

Three credits. Three hours of lecture a week. Prerequisite: COPU 4055.

It deals with the study and practice in the use of production equipment in the radio area. Attention will be paid to the development of broadcasting technique, programme production and administrative aspects. The theory will be complemented with practical exercises in each of the areas studied.

COPU 4096 - Production and Direction for Television

Three credits. Three hours of lecture per week Prerequisite: COPU 4057.

The theoretical and practical bases of the production and direction of TV programs will be examined. The course will develop the concepts of TV production with studio and outdoor practice (eng/efp) using professional production equipment. The student must produce and direct taking into account the factors that affect the television medium.

COPU 4129 - Independent Studies in Communication Theory

Three credits. Only up to a maximum of six credits will be allowed in independent study. Prerequisite: Principal's permission.

The student and his/her tutor will determine the type of study and literature to be reviewed in the field of communication theory.

COPU 4130 - Photography Laboratory for Advertising

Zero credits. Three hours of lecture and two hours of lab per week.

Prerequisite: COPU 4012.

The type of photography used in advertising will be studied. The technical and aesthetic demands of this field will be discussed and resolved through theoretical and practical experiences.

COPU 4136 - Basic Writing for the Media

Three credits. Three hours of practice a week.

Workshop course to train students with the basic writing skills that allow them to communicate with linguistic correctness in the different media platforms and prepare communicative texts for any of the areas that comprise communication: journalism, public relations and advertising and audiovisual.

COPU 4175 - Aesthetics of Cinema

Three credits. An hour and a half of discussion and an hour and a half of lecture per week. Prerequisites: COPU 4038.

Studies of the processes of signification of cinematographic forms, tastes and styles and their relationship towards judgments and categories of aesthetic value through various film works.

COPU 4215 - Audiovisual Communication

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Lectures and analysis of media productions aimed at communication students, on the visual and sound elements of audiovisual communication: photography, radio, moving image, graphic design and other media that make up digital culture, in order to develop a deeper understanding of audiovisual texts.

COPU 4355 - Theories of Communication

Three credits. Three hours of lecture a week.

Perspectives and processes of human communication are analyzed so that new students develop theoretical bases and values of social responsibility in this area of knowledge. Through conferences, communication is studied from different levels— interpersonal, organizational, media, etc.— considering pragmatic, sociotechnical, critical, and political-cultural approaches. This course is offered with face-to-face, hybrid, and online sections.

COPU 4365 - Media Legislation and Information Ethics

Three credits. Three hours of lecture a week.

Study of the legal and ethical norms related to the media (written press, radio, TV, cinema, internet), the right to freedom of expression and the press and the right to information. It includes the discussion of controversies related to freedom of expression and of the press and information and communication technologies, so that the future professional decisions of our graduates are covered by legal and ethical bases. This course will be offered in face-to-face, hybrid and online modalities.

COPU 4800 - Seminar on the History of Mass Media

Three credits. Three hours of seminar per week. Prerequisite: COPU 4355 or COPU 4017

Analysis of the historical development of the mass media. Study of the contribution of the media to the development of contemporary society.

COPU 4820 - Seminar in Photography

Three credits. Three hours of lecture a week. Prerequisite: courses or conditions that the teacher deems relevant.

Analysis, research, observation and practice of the different forms of communication of the photographic image. According to the media and its audiences.

COPU 4995 - Communication Study Tour

Three to six credits. Two hours per week during the semester and 30 hours of academic activities during the field trip. Prerequisite: permission from the principal or teacher.

Study and analysis of issues related to the media and the experiences of social communication in certain countries. It includes several academic preparation sessions, as well as a visit for direct observation of the communication processes and practices under study.

COPU 5005 - Testimonial Communication

Three credits. Three hours of lab or workshop per week.

Introduction to the theory of testimonial genre and an application to the communication of these materials. The theoretical premises of this genre, its approaches to oral history and biographical and ethnographic studies, and its relative usefulness will be examined. A project will be carried out with the method presented as the culmination of the course. The teaching periods will consist of discussions of various testimonial productions with emphasis on various themes.

COPU 5376 - Graphic Production

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

Theory and practice of the production of graphic materials for the visual and printed media.

COPU 5377 - Design for Graphic Communication.

Three credits. Three hours of lecture a week. Prerequisite: Teacher's permission.

Theory and practice of graphic design for visual and print media.

INFP 4001 - Journalistic Writing I

Three credits. Three hours of practice a week. Prerequisites: COPU 4136 4148.

This course will equip the student with the basic skills of Journalistic Writing, particularly those of the informative type for the written press and for the Internet, with a great emphasis on the news search. Simultaneously with the preparation of the informative notes, the student will learn to use photography

and sound as informative vehicles. Face-to-face, online course
e hybrid.

INFP 4002 - Journalistic Writing II

Three credits. Three hours of practice a week. Prerequisite: INFP 4001.

This advanced course will provide the student with the experience of producing journalistic information in a multimedia way. Students will write texts and carry out photographic and video productions of a journalistic nature. Face-to-face, online and hybrid course.

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INFP 4010 - Sports Journalism

Three credits. Three hours of lecture a week. Prerequisite: COPU 4009, 4016.

Theoretical and practical course of analysis, studies, elaboration and preparation of news, reports
y columns within the field of sports journalism.

INFP 4012 - Photojournalism

*Three credits. Prerequisite: COMA 4022. Theory, history and technique of
photojournalism.*

Practical work in the various genres of photojournalism. The editing and design process
that culminates in the public image.

INFP 4016 - Introduction to Journalism

Three credits. Three hours of lecture a week.

This required course studies the history, theories, foundations, and characteristics of the
journalistic field. The evolution of the press as a cultural and social product is analyzed,
and the transformations it has undergone in the context of new communicative practices
are discussed. Likewise, the distinctive features of journalistic genres, their style and
language are explored. Face-to-face, online and hybrid course.

INFP 4026 - Communication and Persuasion

Three credits. Three hours of lecture a week.

Study of the effects of communication on complex and simple social organizations.
Emphasis will be given to the sociological and psychological theories and processes
necessary to achieve changes in attitudes and management of opinion.

INFP 4035 - History of Journalism in Puerto Rico

*Three credits. Three hours of lecture a week. Prerequisite: Principal's
permission.*

Students will be provided with a historical background on journalism in Puerto Rico. How
the Puerto Rican press has operated from Spanish domination to U.S. domination. As
journalism has evolved in harmony with changes in society and the demands for more
national and international information, the impact of the Puerto Rican press on the various
social movements from the times of Spain to the present time.

INFP 4036 - Design and Techniques of Multimedia Journalism

Three credits. Three hours of lecture a week. Prerequisite: INFP 4001.

This undergraduate course will develop, in Communication students, the optimal skills in the use of programs and tools necessary for the design and layout of journalistic, print and multimedia platforms. Face-to-face, online and hybrid course.

INFP 4037 - Preparation of Specialized Newspapers and Magazines

Three credits. An hour and a half of lecture and an hour and a half of laboratory per week. Prerequisite: COPU 4009, INFP 4036.

Philosophy, news evaluation, concepts and principles of production and organization of newspapers and specialized magazines. Students will design and produce individual and group publications. This course replaces COPU 4037.

INFP 4059 - Radio and Television Journalism

Three credits. An hour and a half of lecture and an hour and a half of laboratory per week. Prerequisite: INFP 4001.

Course that addresses the styles of writing and production of news for radio and television in the multimedia context. Emphasis is placed on the nature of these media and how they affect the search, management and publication of news information. Theory and practical experience are combined so that students, particularly of Journalism, know first-hand the process that culminates in the transmission of the news. Face-to-face, online and hybrid course.

INFP 4086 - Journalism Workshop

Six credits. Three hours of lecture a week. Prerequisite: COPU 4009 e INFP 4016.

Advanced Practical Journalism Workshop. Includes: covering news, writing informative material and editorial: layout, selection of graphic and photographic material; drafting of headlines and fits; Use of photography and newspaper publication.

INFP 4097 - Supervised Practice in Radio Journalism

Three credits. Twelve hours of practice per week. Prerequisite: INFP 4059 and INFP 4001, COPU 4009, COPU 4055.

Internship in news departments of radio stations; Integration of theoretical and practical knowledge in the production and elaboration of news.

INFP 4099 - Supervised Practice in Broadcast Journalism

Three credits. Twelve hours of supervised practice. Prerequisite: INFP 4059, INFP 4001, COPU 4009, INFP 4016, COPU 4017, COPU 4057.

Internship in news departments of television stations; Integration of theoretical and practical knowledge in the production and elaboration of news.

INFP 4108 - Supervised Practice in Photojournalism

Three credits. One hour of lecture and twelve hours of workshop per week. Prerequisite: Principal's permission.

Relate the student with a work experience in the area of photojournalism so that he/she

integrates the knowledge, skills, abilities and activities acquired during his/her academic life.
The student will be working directly with professionals in the area of photojournalism.

INFP 4109 - Supervised Practice in Journalism

Three credits. One hour of lecture and twelve hours of workshop per week.

Prerequisite: Principal's permission.

Relate the student to a work experience in the field of journalism so that he/she integrates the knowledge, skills, abilities and activities acquired during his/her academic life. The student will be working directly with professionals in the area of journalism.

INFP 4117 - Independent Study in Journalism

Three credits. Only up to a maximum of six credits will be allowed in independent study. Prerequisite: Principal's permission.

The student and his/her tutor will determine the type of study and literature to be reviewed in the field of journalism.

INFP 4118 - Independent Studies in Photojournalism

Three credits. Only up to a maximum of six credits will be allowed in independent study. Prerequisite: Principal's permission.

The student and his/her tutor will determine the type of study and literature to be reviewed in the field of photojournalism.

INFP 4148 - Basic Wording for Convergent Media

Three credits. Three hours of workshop and lecture per week. Prerequisite: COPU 4136, INFP 4016

This workshop course, aimed at undergraduate students, aims to equip students with basic writing skills that allow them to communicate with linguistic correctness in the various spheres of the field of communications, particularly in the professional field. Face-to-face, hybrid and online course.

INFP 4156 - Ethics in Social Media

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

Prerequisite: COPU 4005, 4007, 4016, 4018 or director's permission.

Study of values, principles and human attitudes that form moral ethics, their application in the field of social communication, and the methodology for the analysis of cases and decision-making processes.

INFP 4185 - Information Theory

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

Study of the fundamental aspects of information through a critical review of the theoretical field of communication, mass culture, information and journalism.

INFP 4205 - Communication Seminar

Three credits. Three hours of lecture a week. Prerequisite: course or conditions that the teacher deems pertinent according to the topic.

Study of special topics related to communication, which vary from semester to semester. The student will be able to take the course three times.

INFP4206 - U.S. International Policy and the Media

Three credits. Three hours of lecture a week.

Study of the values and ideology of news texts in the written and electronic press and how the international policy of the United States is articulated in these media.

INFP 4809 - Seminar in Journalism

Three credits. Three hours of seminar per week. Prerequisites: course or conditions that the teacher deems pertinent according to the topic.

This seminar will allow students to delve into specific aspects of the journalistic field that are not covered in the regular courses offered by the program. It will familiarize the student with topics pertinent to this area of Communication and help them develop analytical and investigative skills in the field.

REPU 4018 - Introduction to Advertising and Public Relations

Three credits. Three hours of lecture a week.

Course designed for Communication students. An introduction to the disciplines of Public Relations and Advertising will be offered. Lectures will be given on the basic concepts that define these disciplines of communication, their importance in modern society and the different ways of carrying out campaigns. The structure, organization and social function of advertising agencies and consulting firms in Public Relations will be highlighted. Face-to-face, online and hybrid course.

REPU 4025 - Copywriting for Advertising

Three credits. Three hours of lecture and discussion per week. Prerequisite: REPU 4018.

Study of the theoretical and practical concepts necessary to develop writing skills for advertising used in different media. Face-to-face, online and hybrid course.

REPU 4065 - Introduction to Public Relations

Three credits. Three hours of lecture a week.

Study of public relations in industry and government. Analysis of public relations problems within the organization and with the external public. The role of the professional relations professional as a harmonizer within the organization and in its relations with the mass media. In addition, the regulations and canons of ethics that govern public relations in Puerto Rico will be discussed.

REPU 4067 - Oral Communication

Three credits. Three hours of lecture a week.

Practical theory in the art of expression before an impersonal audience using the various presentation formats including lectures, speeches, panels and the role of the leader in the case of groups. The student will be related to the visual and electronic resources that facilitate the presentation of the message.

REPU 4069 - Introduction to Advertising

Three credits. Three hours of lecture a week.

Study of the basic elements of advertising, the structure and organization of advertising agencies and the function of advertising media. Design of an advertising campaign. Regulations Governing Advertising in Puerto Rico. It will be a requirement of the course to visit advertising agencies to study how they work. Local publicists will be invited to the course as lecturers.

REPU 4076 - Conceptualization of Advertisements for Audio, Video, Press and New Technologies

Three credits. Three hours of practice a week. Prerequisite: REPU 4018.

Course in which the strategies of the conceptualization and creation processes in the design of advertisements for audio, video, print media and new technology media are practiced. Face-to-face, online and hybrid course.

REPU 4087 - Planning and Production in Public Relations

Four credits. Four hours of lecture per week. Prerequisites: REPU 4165, REPU 4147 and ESIN 4077.

It offers the student theoretical and practical knowledge on various topics specialized in Public Relations. Emphasis on serving as an advanced hands-on Public Relations laboratory.

REPU 4107 - Supervised Practice in Public Relations

Three credits. One hour of lecture and twelve hours of workshop per week. Prerequisite: Principal's permission.

The course seeks to relate the student with a work experience in the field of Public Relations so that they integrate the knowledge, skills, abilities and activities acquired during their academic life. The student will work directly with professionals in the area of Public Relations.

REPU 4110 - Supervised Practice in Advertising

Three credits. One hour of lecture and twelve hours of workshop per week. Prerequisite: Principal's permission.

The course seeks to relate the student with a work experience in the field of Advertising so that they integrate the knowledge, skills, abilities and activities acquired during their academic life. The student will be working directly with professionals in the area of Advertising. The professional experience they derive from this internship helps them prepare their portfolio, while also offering them the opportunity to closely observe the practice of their profession.

REPU 4115 - Independent Studies in Advertising

Three credits. Only up to a maximum of six credits will be allowed in independent study. Prerequisite: Principal's permission.

The student and his/her tutor will determine the type of study and literature to be reviewed in the field of advertising.

REPU 4119 - Independent Studies in Public Relations

Three credits. Only up to a maximum of six credits will be allowed in independent study. Prerequisite: Principal's permission.

The student and his/her tutor will determine the type of study and literature to be reviewed in the field of public relations.

REPU 4145 - Public Relations Research Techniques

Three credits. Three hours of lecture a week. Prerequisite: COPU 4018, 4077 and REPU 4065.

Study of the value and application of research techniques used in public relations programs. Comparison between research conducted in the United States, Latin America, and Puerto Rico.

REPU 4147 - Public Relations Writing

Three credits. Three hours of lecture a week. Prerequisites: COPU4136 and REPU 4018.

Knowledge and practice about the research techniques, objectives and writing style used in the various written and oral media in public relations. (c) Face-to-face, hybrid and online course.

REPU 4155 - Media Planning

Three credits. Three hours of lecture a week. Prerequisites: REPU 4018, REPU 4076.

Study of the theoretical and practical concepts for the preparation of a media plan that results in the design of a course of action that reflects how the space and time of advertising contribute to the achievement of marketing objectives. Face-to-face, online and hybrid course.

REPU 4157 - Planning and Production in Advertising

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: REPU 4155, REPU 4166, ESIN 4077.

Study of the theoretical foundations necessary for the development, organization and operation of an advertising agency, the strategies for managing its daily operations and the way to get and retain clients.

REPU 4165 - Public Relations Campaigns

Three credits. Three hours of lectures a week. Prerequisites: REPU 4018, REPU 4147, ESIN 4077.

Study of the process involved in creating a Public Relations program for an organization. The process of research, planning, communication and evaluation for the development of a Public Relations campaign will be studied. Face-to-face, hybrid and online course.

REPU 4166 - Advertising Campaigns

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: REPU 4018, REPU4025, ESIN4077.

Study of the components of an advertising campaign in a global economy. Analysis of consumer behavior in the market. Study of new technologies in the search for information within advertising campaigns. Face-to-face, online and hybrid course.

REPU 4805 - Seminar on Advertising

Three credits. Three hours of seminar per week.

Advanced study of advertising from the academic-professional perspective. Analysis of the participation of advertising in contemporary social, economic and cultural development.

REPU 4807 - Public Relations Seminar

Three credits. Three hours of seminar per week. Prerequisites: REPU 4018.

Advanced study of Public Relations. Analysis and practice of different phases of Public Relations in the communication process between the company and its audiences.

HONORS DEGREE PROGRAM

Director: Dr. Elaine Alfonso-Cabiya

Address:

Roosevelt Building Office 102 Honors Program
University of Puerto Rico 14 Ave. Universidad, Ste.
1401 San Juan, PR 00925-2534

Email: programa.honor@upr.edu

HISTORY

The Honors Studies Program was established in 1961, reporting directly to the Office of the Provost. With the passage of time, its structure changes; However, it always keeps working. The Program currently answers to the Dean's Office of Academic Affairs and is governed by *Certification number 119 (2000-2001)* of the Academic Senate.

PHILOSOPHY & OBJECTIVES

The mission of the Honors Studies Program at the University of Puerto Rico, Río Piedras Campus is to offer its students the opportunity to achieve an integrated undergraduate education, in an innovative, self-critical, and creative atmosphere. Integrated education is understood as a broad and flexible approach to the learning process, where both the incorporation of diverse areas of knowledge and the specialization necessary for the mastery of a subject are favored. It helps to provide a space for the dynamic spirit of teachers and students who are interested in exploring new opportunities. The Program provides, through the content, the focus of its academic offerings and the program of activities, the opportunity for the student to develop the knowledge, competencies and academic attitudes necessary for the analysis and solution of pertinent problems. Its curriculum is a complement to the general curriculum for those students who desire an environment of individualized study and varied and flexible offerings, without interrupting their general curriculum within the campus programs. The objectives of the Program are:

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1. Provide a forum for the exchange of ideas between students and faculty from various disciplines.
2. Offer individualized attention for the best intellectual development of the student.
3. Encourage openness and interfaculty intellectual risk in the selection of curricular offerings.
4. Encourage a vocation for independent study and research.
5. Provide expertise for the development of competencies in rigorous research.
6. To promote graduate studies and to assist in the admission and scholarship procedures for those who wish to pursue them.

AWARDING DEGREE

Although the Program does not award academic degrees, upon completion of the Program requirements and applying for graduation, the student receives a Certificate in recognition of having ~~with~~ met the requirements of the Program. In addition, in the student's academic record (transcription of

credits) the Registrar makes the following notes: *Completed the requirements of the Honors Studies Program*, title of their dissertation or creation project and the grade obtained in their defense: *Notable, Outstanding or Outstanding with recommendation for publication*.

BENEFITS OF THE HONORS STUDY PROGRAM

The Program's offerings serve to enrich the university experience and to help integrate knowledge in an interdisciplinary manner. The student has access to a number of special academic benefits namely: small class sizes, direct contact with professors, independent studies, interdisciplinary and research seminars, and living with similarly motivated students throughout the campus. There are seminar rooms and a room where students can share academically and socially. The student has an academic advisor who is the director of studies of his/her faculty or school and in consultation with him/her plans his/her studies and evaluates his/her academic progress. The Programme encourages graduate studies and assists as much as possible those students who wish to pursue them. Guidance is offered on possible areas of study, admission requirements to different universities

y sources of financial aid. You have access to the special deposits of the Lázaro Library and the use of computers for the preparation of monographs, proposals, theses and other written works.

The University offers the benefits of the Program at no additional cost. The same is paid for courses in the Program as for any other undergraduate course on the Campus.

ADMISSION REQUIREMENTS

1. Have completed at least one semester of undergraduate study with a regular program. (12 credits)
2. Have an academic average of 3.50 or higher at the time of applying for admission to the Program.
3. Fill out and submit an application for admission to the Program.
4. Submit two letters of recommendation.
5. Provide other evidence that the student wishes to provide or that the Board requests.
6. Demonstrate through interviews with the Director of Studies and the Board of Directors that he/she has the capacity and interest to satisfactorily meet the requirements of the Program. After this process, the Council decides whether the candidate is accepted into the Programme.

SPECIAL RULES

Upon entering the Program, the student assumes a serious responsibility: he/she must actively participate, both in the curricular aspect and in the co-curricular activities. A high level of professionalism is required and full use is expected of the opportunities offered. Once admitted, the student must maintain an overall GPA of 3.50

and you must meet all requirements by the date of your graduation. Those who decide to withdraw must consult with their director of studies and submit, in writing, their resignation and the reasons for that decision. The Board of Directors may dismiss a student who regularly does not meet the academic goals and requirements or does not make good use of its facilities, including the academic counseling offered by the Program.

CURRICULUM

Each student is under the tutelage of an academic advisor who guides and advises in the planning of their studies. In addition to completing the courses required by the faculty to which they belong, students will complete the Program once they pass the academic curriculum of 17 credits. The syllabus consists of the following courses:

RESEARCH THEORIES, METHODOLOGIES AND TECHNIQUES (2 CREDITS)

This course is an introduction to the primary foundations of research in the sciences and humanities, specifically aimed at the students of the Program. It discusses the principles of bibliographic research, definition of the research problem, methodologies and theoretical frameworks, selection of techniques for data collection
y designing and writing research proposals.

INDIVIDUALIZED STUDY (3 CREDITS)

This course offers a challenging intellectual experience in which student and mentor work together to elucidate a problem, review relevant literature, analyze texts, and design a research proposal or authoring project. The individualized study culminates with the elaboration and defense of the thesis proposal or creation project that the student will develop in the Honors Thesis course. It provides the opportunity for the student to relate to the teacher's field of specialization and his/her working method. In this way, the mentor shares with the student attitudes such as: dedication to study, intellectual curiosity and critical ability, essential habits for independent study and research. Individualized studies offer space for the student to identify career and internship interests that involve work experiences. In most cases, individualized studies have an enrollment of one student, although they can reach an enrollment of up to five. Meetings are by agreement between student and teacher.

THESIS OR CREATION PROJECT (3 CREDITS)

The dissertation or creation project constitutes the culmination of the academic requirements of the Program. Both the dissertation and the creation project are rigorous academic works. In the case of the dissertation, the student investigates a topic in depth. Creation projects include a research component; However, they focus on the development of an original work in their field of study (e.g., literary, visual arts, theatrical, or musical work; a series of curricular units; a translation; business plan; architectural project model, among others). In both cases, the work is carried out with the support of a teacher, who serves as a mentor to the student.

INTERDISCIPLINARY RESEARCH SEMINAR (3 CREDITS)

The interdisciplinary research seminar will address a topic from two perspectives. On emorr e more professors will be responsible for directing the seminar, guiding the student in research, and supervising the writing of an essay. The seminar is a course designed for small groups that allows for greater communication between the teacher and the students. The Board of Directors approves the seminars to be offered.

LANGUAGE SKILLS (6 CREDITS)

6 credits in language skills are required in order to provide the student with the opportunity to broaden his/her cultural horizons or to serve as a working tool for research. This requirement can be met through four modalities.

EXPERIMENTAL COURSES

The Program serves as a space for curricular innovation and experimentation to meet the needs of the student body and the interests of the teaching staff of the Campus. Among these, two courses are offered (PREH 3901, PREH 3902) that expose the student to the research process through participation in a project directed by a researcher. Courses are offered for the purpose of providing students with additional opportunities for research experiences. Each experimental course carries 3 credits per semester.

with

OTHER ACADEMIC REQUIREMENTS

Students are required to take a workshop in each of the following two areas: bibliographic resource databases and application processes for graduate programs, scholarships, or internships.

ACTIVITIES

The Program sponsors meetings of its members with distinguished visitors, and students invite professors to give talks and lectures. Any type of student initiative that contributes to the academic preparation of its members is encouraged. Co-curricular activities provide students with the opportunity to approach different fields of knowledge and to have informal contact with professors from different areas. The coexistence of students seriously committed to academic work generates a climate of dedication to intellectual life.

HONORS PROGRAM FACULTY

The Honors Studies Program does not have an attached faculty. It selects its teaching staff from among specialists who meet its curricular needs both inside and outside the University of Puerto Rico System. In particular, the Programme relies on the cooperation of the faculties and departments of the campus for the recruitment of suitable teaching staff.

DEPARTMENT OF AEROSPACE STUDIES

Director: Lt Col Robby J. Modad

Address:

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Apartado 366275 San Juan,
Puerto Rico, 00936-6275
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HISTORY

The Department of Aerospace Studies was founded in August 1951, under the Office of the Dean of Students, upon the entry into force of an agreement signed between the University of Puerto Rico and the United States Air Force to offer students the option of becoming officers. From 1951 to 1960, the program was four years, the first two of which were compulsory for all able-bodied males. In August 1960, the program passed to volunteer. In 1971 the Academic Senate passed oversight of this Department to the Dean of Academic Affairs. The four-year program was established in August 1972 and in August 1977 the Air Force authorized the training of female officers

OVERVIEW

The Department of Aerospace Studies, also known as the Air Force Reserve Officer Training Corps (ROTC), is a three- to four-year leadership-focused educational program designed to give men and women the opportunity to become officers in the Air Force while completing their baccalaureate. Students participating in the Program are required to take a class, a lab, and participate in physical activities. Students who complete the program and graduate from high school will be receiving a commission as second lieutenants in the Air Force.

GOALS AND OBJECTIVES

The Department of Aerospace Studies fulfills the dual task of functioning as a department of the Río Piedras Campus and as a training detachment for officers of the United States Air Force. On the academic side, it offers the 4-year program and the 2-year program to which both men and women are eligible as long as they are regular students. Among the goals and objectives of the unit are the following:

1. Identify, motivate, and select students who possess the basic qualities of character and leadership to serve as future officers in the Air Force.
2. Collaborate in the university-level training that students receive.
3. Foster awareness and appreciation for the values and principles of democracy.
4. Provide the student with a clear understanding of the Air Force's mission in defense of national interests.
5. Develop better citizens through leadership experiences and practice.
6. To commission young men who are dedicated and have the knowledge, qualities, and disposition necessary to enthusiastically perform their duties as Second Lieutenants in the Air Force.

CURRICULUM

The curriculum is divided into two types of courses, "General" and "Professional". The "General" course is open to all first- and second-year students. During the general course, the student does not have any military commitments. The "Professional" course is limited to third- and fourth-year students who have completed the "General" course and met certain requirements set forth by the Program. Students who have two to three years to graduate from high school may be able to participate in our accelerated program which would allow them to complete the "General" course in one year.

GENERAL COURSE (2 CREDITS)

ESAE 3001 & 3002 - Today's Air Force

This introductory course is designed to teach students about the structure and missions of the Air Force, leadership characteristics and professionalism of an officer, and verbal and written communication skills.

ESAE 3011 and ESAE 3012 - Developing Air Power

This course is designed to teach students about the beginnings of aviation and its development as air power from World War I to military operations y more recent humanitarian measures. Both courses consist of one hour of class time and two hours of laboratory.

PROFESSIONAL COURSE (4 CREDITS)

ESAE 4001 and 4002 - Management and Leadership in the Air Force

This course is composed of lessons in management and leadership combined with case studies and practical application of leadership skills through laboratories. The first part of the course focuses on the study of managerial theory, analytical methods in decision making and coordination and planning strategies. The second part focuses on developing personnel management skills both as individuals and work teams, in areas such as motivation, counseling, and conflict management.

ESAE 4011 and 4012 - National Security in Contemporary American Society

This course examines national security processes, the structure of the Air Force, doctrines with an emphasis on the development of leadership skills required by Air Force officers. This course also prepares the student in areas of personnel evaluation. The course at the Professional level is composed of three hours of class and two hours of practical laboratory. The student must complete the General level courses in conjunction with certain requirements required by the Air Force ROTC.

SPECIFIC REQUIREMENTS FOR ADMISSION TO THE AIR FORCE ROTC PROGRAM

- Be a high school student with a minimum of two to three and a half years to graduate.
- Be a full-time student.
- Minimum GPA of 2.0 (2.5 for the accelerated program).
- Complete the admissions process with the Air Force ROTC program. For

more information about the program, financial aid, and career opportunities as an Air Force officer, stop by the Air Force ROTC offices.

CURRICULUM

BASIC COURSES	Crs.
ESAE 3001-3002 - Today's Air Force	4
ESAE 3011-3012 - The Development of Air Power	4

ADVANCED COURSES	Crs.
ESAE 4001-4002 - Management and Leadership in the Air Force	8
ESAE 4011-4012 - National Security Forces in American Society	8

FACULTY OF THE DEPARTMENT OF AEROSPACE STUDIES

- Lieutenant Colonel Robby J. Modad, Professor and Chair of the Department of Kinesiology, University of Houston, Texas, 2005 / Space Studies, American Military University, 2011 / Operations Management, Air Force Institute of Technology, Wright-Patterson Air Force Base, OH, 2018.
- Major Alvin M. Otero, Assistant Teacher, Cadet Commander and Education Officer; Industrial Management & Information Systems, University of Puerto Rico, Mayagüez, PR, 2004 / Systems Analysis, Naval Postgraduate School, CA, 2009.
- Captain Timothy Olinger, Assistant Teacher and Recruiter; Political Science, "University of Houston", TX, 2015

AEROSPACE STUDIES COURSES

ESAE 3001 - Today's Air Force

Two credits. One hour of discussion and one hour of lab per week.

Study of the air force in the contemporary world, through the study of the total structure of the armed forces including strategic offensive assistance or support forces.

ESAE 3002 - Today's Air Force

Two credits. One hour of discussion and one hour of lab per week.

ESAE 3011 - The development of air power

Two credits. One hour of discussion and one hour of lab time per week.

The development of air power from the use of balloons and airships to the present is also related to the places where the U.S. Air Force is employed in relief and civic assistance missions, as well as in armed conflicts such as the Southeast Asian War.

ESAE 3012 - The development of airpower

Two credits. One hour of discussion and one hour of lab time per week. Prerequisite: ESAE 3011.

The development of air power from the use of balloons and airships to the present. It is also related to places where the U.S. Air Force is employed in relief and civic assistance missions, as well as in armed conflicts such as the war in Southeast Asia.

ESAE 4001 - Management and Leadership in the Air Force

Four credits. Three hours of discussion and one hour of lab time per week.

Application of management concepts with special attention to the individual as a leader in the air force. Topics such as individual motivation and behavioral processes, leadership, group dynamics, basic managerial processes for making decisions, analytical methods for planning, organizing and controlling are discussed; personal and organizational values; and organizational power and politics. Skills needed to communicate effectively in English, both oral and written, are emphasized. Real cases from the air force are used to improve the student's learning and communication processes.

ESAE 4002 - Management and leadership in the air force

Four credits. Three hours of discussion and one hour of lab time per week.

Prerequisite: ESAE 4001.

Application of management concepts with special attention to the individual as a leader in the air force. Topics such as individual motivation and behavior process, leadership, group dynamics, basic managerial processes for making decisions, analytical methods for planning, organizing and controlling are discussed; personal and organizational values; and organizational power and politics. Skills needed to communicate effectively in English, both oral and written, are emphasized. Real cases from the air force are used to improve the student's learning and communication processes.

ESAE 4011 - National Security Forces in Contemporary American Society

Four credits. Three hours of discussion and one hour of lab time per week.

Factors affecting national security policy. The concept of military professionalism and patterns of civil-military relations are examined. Domestic and international factors affecting U.S. defense policy are discussed. It examines the development of defense strategy and methods of managing conflicts since World War II. The multiple variables that affect the formulation and implementation of national security policy are studied.

ESAE 4012 - National Security Forces in Contemporary American Society

Four credits. Three hours of discussion and one hour of lab time per week. Prerequisite: ESAE 4011.

Factors affecting national security policy. The concept of military professionalism and patterns of civil-military relations are examined. Domestic and international factors affecting U.S.

defense policy are discussed. It examines the development of defense strategy and methods of conflict management since World War II. The multiple variables that affect the formulation and implementation of national security policy are studied.

DEPARTMENT OF MILITARY SCIENCES

Director: LTC. Aaron Angell

Admissions Officer: Pedro de Jesus, pedro.dejesus.civ@mail.mil

Address:

901 Avenida Barbosa San
Juan, Puerto Rico, 00923

HISTORY

The Military Science Program was established at the University of Puerto Rico in 1919 under the U.S. National Defense Act of 1916. From 1919 to 1959, the basic course of the first two years was compulsory for all male students who were physically qualified. The advanced course of the last two years was elective. During the 1960-61 academic year the Military Science Program was made entirely voluntary. Originally, the program in Río Piedras was geared toward the Infantry Branch. In 1965, a general military science curriculum was adopted that offers students a commission in any of the branches of the military.

PHILOSOPHY & OBJECTIVES

Provide an understanding of the fundamental concepts and principles of military science and art. Develop personal integrity, honor, and individual responsibility; and an appreciation of the national security requirements to prepare students for commission in the U.S. Army Reserve, Active Duty, or National Guard. Establish a solid foundation for their future professional development and good performance as officers and community members.

GENERAL REQUIREMENTS

1. Age:
 - a. Regular students: Have reached the age of 17 when enrolling in the Basic Course and be under 35 years of age on the projected date of commissioning.
 - b. Scholarship Students: Have reached the age of 17 by October 1 of the year in which they are enrolled as a scholarship cadet, if enrolled in the fall. Those who do not enroll in the fall must be 17 years of age at the time of enrollment. Be under the age of 31 as of December 31 of the year projected to be commissioned.
2. Character: Have good moral character evidenced by good conduct and police record.
3. Citizenship: Be a citizen of the United States of America.
4. Be enrolled and attending full-time in a course of instruction at a University or College recognized by the Military Science Program. The course of instruction must be leading to a Bachelor's or Master's degree in any academic concentration.
5. Dependents: Have fewer than 3 dependents (including husband/wife).
6. Maintain a cumulative GPA of 2.00 each term of instruction.

MEDICAL QUALIFICATIONS

1. To enroll in the Basic Course, applicants will obtain a statement from a physician certifying that they are in good health and fit for physical exercise.

2. In order to go to Basic or Advanced Camp, or enroll in the Advanced Course, or upon being initially enrolled in the scholarship program, applicants will have to pass a physical examination that identifies them as fit for military service.

ADVANCED COURSE REQUIREMENTS

In addition to the general requirements, a student applying to enroll and be hired in the advanced course or to attend the basic camp must meet the following requirements:

1. Possess the qualities required of a military officer and demonstrate this through his or her academic record, extracurricular activities, experiences, and aptitude for military training. Leadership potential is a very important factor when being selected to attend the advanced course.
2. That you have a minimum of two years of studies left to finish a Baccalaureate or Master's degree.
3. Have satisfactorily completed the Basic Military Science Course or received equivalent credit for such course based on military training, service in the Armed Forces, or ROTC Basic Camp.
4. Have passed an English exam with a score of no less than 75 Maintain an academic index of 2.50 or higher.

REQUIREMENTS TO BE A COMMISSIONER

Students who complete the Military Science Program are eligible to receive a commission as a Second Lieutenant in the National Guard, Active Duty, or Reserve of the United States of America.

To be eligible for commission in the National Guard, Active Duty Reserve, the cadet must meet the following requirements:

1. Be under 35 years of age by the date you accept the commission. In exceptional cases, it may be requested to extend the maximum age to less than 39 years.
2. Be a citizen of the United States of America.
3. Possess a Bachelor's or Master's degree from a duly accredited college or university.
4. Moral character. Cadets who have been convicted in a civil court or court martial are not eligible for commissioning unless they have been duly excused. If the requirement is waived to allow the cadet to enroll or continue in the Military Science Program, that reason also allows the cadet to waive the conviction and thus allow the cadet to enter the National Guard, Active Duty, or Reserve of the United States of America.
5. The rules applicable to the medical qualifications of the cadet when he or she enrolled in the advanced course also apply at the time of receiving the commission.
6. Have satisfactorily passed the required military training courses and advanced training camp.
7. Be recommended for commission by the professor of military science.
8. Favorable results in the investigation carried out by the National Investigation Agency.

ROTC SCHOLARSHIP PROGRAM

The Department of the Army awards scholarships to outstanding Army ROTC applicants and cadets. The scholarships are four-, three-, and two-year and include tuition fees, lab costs, and an annual book stipend. In addition, the student receives an additional stipend based on the year of Military Science they

are enrolled and attend. They also receive approximately \$700.00 for their attendance at the advanced camp.

CURRICULUM

ARMY ROTC CORE COURSES

Crs.

CIMI 3011 Basic Course - First Year of Military Science & Leadership I	2
CIMI 3012 Basic Course - First Year of Military Science & Leadership I	2
CIMI 3021 Basic Course - Second Year of Military Science & Leadership II	2
CIMI 3022 Basic Course - Second Year of Military Science & Leadership II	2

ADVANCED ARMY ROTC COURSES

Crs.

CIMI 4011 Advanced Course– Third Year of Military Science & Leadership III	4
CIMI 4012 Advanced Course - Third Year of Military Science & Leadership III	4
CIMI 4021 Advanced Course - Fourth Year of Military Science & Leadership IV	4
CIMI 4022 Advanced Course - Fourth Year of Military Science & Leadership IV	4

ENGLISH COURSES

Crs.

CIMI 3041 Speaking and Understanding English in Today's Army (Beginner Level)	1
CIMI 3042 Speaking and Understanding English in Today's Military	1
CIMI 3043 Speaking and Understanding English in Today's Army (Intermediate Level)	1
CIMI 3051 Speaking and Understanding English in Today's Military (Advanced Level)	1
CIMI 3052 Speaking and Understanding English in Today's Military (Advanced Level)	1
CIMI 4041 Military Writing I	3
CIMI 4041 Military Writing II	3

FACULTY OF THE DEPARTMENT OF MILITARY SCIENCES

- Candelario, Richard; B.S., Universidad Interamericana San Germán, 1992.
- Boy, Felix; M.A., University of Puerto Rico, 1982.
- Clemente, José; MAJ. B.A., UPR - Mayagüez Campus, 1994.
- Cole, Sheryl; B.A., University of Iowa, 1996.
- Colón, Ray; B.A., Inter-American University, Metropolitan Campus, 1985.
- De Jesús, Pedro; GS 11, M.A., University of Phoenix, 2002.
- Hanes, Eric R.; LTC, M.A., University of William and Mary, 2006.
- Mercado, César; B.A., Universidad Interamericana, San Germán, 2006.
- Mignucci, Omy; M.Ed., University of North Dakota, 1996.
- Nesby, Faith Mary; M.A., Kansas State University, 1990.
- Rivas, Luis; CPT. B.A., UPR - Cayey Campus, 2005.
- Vidaurri, Ryan; CPT, B.A., Houston University.

MILITARY SCIENCE COURSES

CIMI 3011 - First Year Basic Course in Military Science I

Two credits. Two one-hour lectures and one two-hour leadership workshop per week.

This course provides a basic understanding of the organization and the different branches of the U.S. Army; the customs and traditions of military service, the role of the National Guard and Reserve, first aid, and introduction to basic military cartography. Leadership workshop on physical conditioning, leadership principles, and instruction in marching and military ceremonies.

CIMI 3012 - First Year Basic Course in Military Science II

Two credits. Two one-hour lectures and one two-hour leadership workshop per week.

Continuation of first aid principles, such as establishing a physical training program, land navigation, small unit tactics, and development of leadership qualities. Leadership workshops include planning tactics for small units, continuing marching practices and ceremonies, and participating in the fitness program.

CIMI 3021 - Second Year Basic Course in Military Science III

Two credits. Two one-hour lectures and one two-hour leadership workshop per week.

It includes intermediate military mapping, azimuth conversions, intersection and resection, relationship and relief, field partnership, military correspondence, military leadership, the military organizational structure, and the role of the non-commissioned officer. Leadership workshops include marching and ceremonial practice, small unit tactics, and physical conditioning.

CIMI 3022 - Second Year Basic Course in Military Sciences IV

Two credits. Two one-hour lectures and one two-hour leadership workshop per week.

This course includes the historical growth and development of the U.S. Army from the beginning to the present; The principles of warfare and their application in U.S. military history, small unit tactics, basic military radio communication, and Soviet military power. Workshops include marching in military ceremonies and small unit tactics (practice).

CIMI 3025 - Selected Military Skills

Two credits. Two hours of lecture and one hour of lab or workshop per week.

Prerequisites: CIMI 3011, 3012, 3021, 3022.

Instruction in military leadership. Map reading and military tactics of small units.

CIMI 3041 - Speaking and Understanding English in Today's Army (Beginner Level)

A credit. Two hours of lecture per week. Prerequisites: Be officially enrolled in the course and take placement tests to establish a corresponding level according to your English language skills.

The course is designed for military science students who have demonstrated deficiencies in English language skills in the English Comprehension level (e.c.I.) test provided by the Defense Language Institute, English language center at Lackland Air Base, San Antonio, Texas. se emphasizes pronunciation, reading comprehension, vocabulary and a general grammar review.

CIMI 3042 - Speaking and Understanding English in Today's Army (Beginner Level)

A credit. Two hours of lecture per week. Prerequisites: Be officially enrolled in the course and take placement tests to establish a corresponding level according to your English language skills.

The course is designed for military science students who have demonstrated deficiencies in English language skills at the English Comprehension level (e.c.I.) test provided by the Defense Language Institute, English Language Center at Lackland Air Base, San Antonio, Texas. se emphasizes pronunciation, reading comprehension, vocabulary and a general grammar review.

DIVISION OF CONTINUING EDUCATION AND PROFESSIONAL STUDIES

Executive Director: Aurora Sotográs Saldaña, Ph.D.

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HISTORY

The University of Puerto Rico's offer of extension, intramural and evening courses originated in the 1920s and began with the offer of sporadic and informal courses at the School of Business Administration. In response to the interest in these courses becoming an official activity of the University of Puerto Rico, the former Board of Trustees of the University approved a resolution on May 15, 1933, authorizing the establishment of university teaching courses outside the walls. On June 19, 1957, the Higher Council of Education approved a resolution creating the Extension Division, assigning it the responsibility of administering and supervising the evening and Saturday academic program of intramurals, as well as extramural and Summer School programs. In addition, the following programs were assigned to the Extension Division: Study Trips and Non-Resident Students. Subsequently, the Special Programs Section, the Fine Trades Workshop, the Head Start Staff Training Program, the Multilingual and Cultural Institute, and the Management Development Center were added.

By 1970, the Extension Division was reorganized and renamed the Division of Continuing Education and Extension (DECE). However, when the *Middle States Association* visited the campus in 1974, a report was issued that led to a reorganization of the DECE, to the effect that evening and Saturday courses would be returned to the faculties and that extramural courses would be discontinued. On the other hand, credit programs such as the Fine Trades Workshop, the Experimental Adult Continuing Education Program (PEECA), the Vocational Teacher Certification Program, some Spanish and English offerings from the Multilingual and Cultural Institute, and the Head Start Training Program in coordination with community agencies were retained and continued to be developed. In these cases, with the exception of the Fine Crafts Workshop, the offers with credit were coordinated, as always, with the faculties.

Originally, the Division was attached to the Office of the Rector of the Río Piedras Campus. Since

2000 it has been placed under the supervision of the Dean's Office of Academic Affairs. On June 11, 2001, the Board of Trustees of the University of Puerto Rico approved Certification Number 190, 2000-01, entitled: Institutional Policy and Strategic Management for Continuing Education and Professional Studies in the University of Puerto Rico System. This new policy establishes the Division of Continuing Education and Extension of each institutional unit under the new name of the Division of Continuing Education and Professional Studies (DECEP), as an inherent part, and not an appendix, of the academic process of the University of Puerto Rico. It also defines the location of DECEP in the academic and administrative structures of the campuses. The Certification identifies the instances, forums, and mechanisms through which DECEP, as an institutional and systemic body, interacts and collaborates to promote the review and creation of standards, policies, and procedures that allow for its maximum growth, development, and diversification.

PHILOSOPHY

Lifelong learning contributes to the dissemination and preservation of cultural and ethical values, to positive social change, to the evolution of the workforce that promotes economic development, and consequently, to a sense of individual and collective fulfillment that leads to a better quality of life. Puerto Rico's competitive possibilities on the threshold of a new century are framed in a pluralistic, knowledge-based society, a changing and globalized economy, and the rapid technological advances characteristic of the information age.

This new reality, which can be summed up in the so-called permanence of change, constantly dictates new patterns of work and services that demand a highly capable human resource, with an **updated**, sophisticated, diverse and complex education. To keep pace with this dizzying process of change, it becomes **an indispensable** requirement for the worker of the 21st century to continuously renew and expand his or her knowledge and skills in order to maintain and increase his or her competitiveness, standard of living, sense of self-esteem and contribution to society.

This scenario translates into a diversification of the profile of the student body that goes to higher education institutions to include an adult and mature sector, with diverse experiences and knowledge and clearly defined goals. This non-traditional student population is unique and at the same time heterogeneous in its characteristics. Their heterogeneity stems not only from their skills, experiences and knowledge, but also from their personal characteristics, needs and particular priorities. The goals of this group are varied, and can range from studying to expand, update and refine their professional knowledge and skills, to obtaining a university degree to stay current, moving up in certain markets, changing careers, and/or personal growth.

Universities are faced with the challenge of responding, in addition to the needs of their traditional student body, to the demand of this growing non-traditional sector for higher education that promotes lifelong learning. The University of Puerto Rico, in its mission to provide educational opportunities to all sectors of the people of Puerto Rico and an environment that today transcends geographical barriers, cannot help but respond quickly and aggressively to this challenge. This complex scenario requires the University to reconceptualize and reformulate its paradigms of providing instruction to meet the needs of a highly diversified student population with a relevant, innovative, diverse and, above all, flexible academic offer, from the conception of its essence to its implementation. The Division of Continuing Education and Professional Studies of the University of Puerto Rico, with a presence in the eleven institutional units of the System, is a vehicle by virtue of which the University maintains close ties with its graduates; fulfills its mission to serve the higher education needs of the communities of Puerto Rico and its surroundings; and with its commitment to

the continuous search for new ways to respond quickly and creatively to present and future challenges and opportunities. This synergistic relationship is materialized through an innovative, relevant, excellent, broad, dynamic and flexible academic offer and high-quality services for the professional and personal development of non-traditional students. In the era of globalization and a knowledge-based economy, the University of Puerto Rico reaffirms its leadership in continuing education and professional studies in Puerto Rico, and as a competitive educational alternative for individuals beyond the island's geographical barriers.

MISSION

The Division of Continuing Education and Professional Studies of each of the institutional units of the University of Puerto Rico reaffirms its shared mission of providing innovative and excellent academic programs and activities, with and without credit, aimed at facilitating lifelong learning. The DECEPs enable, guarantee and perpetuate the service mission of the University of Puerto Rico, its insertion in the current of globalization of education, and its contribution to socioeconomic and cultural development, quickly and effectively attending to the immediate needs of the sectors of Puerto Rico and its environment, which it serves.

STRATEGIC OBJECTIVES

The objectives of the Division of Continuing Education and Professional Studies at the University of Puerto Rico are as follows:

1. To raise awareness among UPR students, their alumni and citizens about the importance of continuous learning as an essential mechanism for personal and professional development conducive to their active participation in social and cultural development. y the country's economic system, thus raising the individual and collective standard of living.
2. To provide an innovative, broad, dynamic and flexible academic offer with and without credit, which responds to the educational, training and training needs of non-traditional students from the different sectors of the Puerto Rican community and its environment.
3. Collaborate with academic departments and/or faculties in offering academic programs leading to certifications or degrees for non-traditional students.
4. Provide continuing education activities regulated by laws applicable to the authorized practice of certain professions, in accordance with the requirements established by examining boards and professional associations.
5. Establish alliances with public, private, local, national and international agencies and entities, to design and implement academic projects that respond to their expectations and priorities.
6. Develop academic projects through consortia and agreements between departments, faculties and universities within and outside the UPR system, and public and private schools locally and internationally.
7. Diversify, enrich and expand the offer of academics, continuing education and professional studies using various strategies, methodologies and technologies, including among them, modalities of distance education, in accordance with the policies in force in the UPR.
8. Identify needs and demands for continuing education and professional studies in Puerto Rico and its surroundings, as well as other services related to the mission and capabilities of the DECEP, and propose and implement alternatives to meet them.

ACCREDITATION & LICENSING

The Division of Continuing Education and Professional Studies, as an inherent part of the academic process of each unit, shall be subject to the evaluation processes established by the Council on Higher Education, the Middle States Association, and other professional accrediting agencies that apply to the standards that pertain to continuing education and professional studies.

REGISTRATION AND TUITION PAYMENT PROCEDURE

DECEP non-credit and semester-long short course offerings with or without credit are published in a digital catalog format through the official website of the Campus and DECEP. In addition, it is promoted through social media and sent on demand via email. The catalog includes a description of the offer, the start and end date of the courses, class schedules and costs.

Anyone interested in participating in the skills development courses for professional and personal improvement can enroll through the official website www.decep.uprrp.edu or by visiting the DECEP offices at:

**Division of Continuing Education
and Professional Studies
(DECEP) University Plaza,
South Tower, Fifth Floor, Río
Piedras Campus, University
of Puerto Rico**

You will fill out the appropriate registration form and pay by cash, check, money order or credit card (VISA, MASTERCARD or ATH). If the payment is by credit card, you can make it through the official website, telephone, fax or by mail. Enrolment is subject to the maximum capacity of each section. DECEP reserves the right to cancel courses that do not meet the minimum required tuition fee.

CANCELLATIONS AND REFUNDS

- The \$20.00 pre-tuition fee is non-refundable.
- Any request for reimbursement will be in writing and requests via telephone calls will not be accepted.
- 100% of the tuition fee will be refunded when the participant submits a written refund request including his/her name, telephone number, justification for withdrawal and title of the professional certificate or short course enrolled, two (2) days before the start date of the professional certificate or course to the mail
Electronic: recaudaciones.decepr@upr.edu.
- In the event that DECEP cancels the offer of the professional certificate or course, the participant will be reimbursed 100% of the tuition fee.
- DECEP will reimburse 80% when the participant requests withdrawal during the first week of the start of the professional certificate or short course.
- After the end of the first week, DECEP will not refund any tuition fees.

- Tuition fees are non-transferable.

The DECEP will process refunds of the professional certificate or course once it is cancelled or the participant requests withdrawal

CLASS ATTENDANCE

A student who enrolls in a Division course must attend classes regularly. The student receives a certificate of hours equal to his/her attendance at classes. The student must also meet the requirements stipulated for the respective courses.

COURSE APPROVAL

Upon successful completion of a non-credit DECEP course, the student receives a certificate of participation. If a Continuing Education Unit (UEC) is obtained for the course, the information will be specified in the certificate. According to Certification No. 55, issued on May 23, 1983-84 by the Academic Senate of the Río Piedras Campus, a Continuing Education Unit is defined as: participation for ten hours in contact with an organized continuing education experience under responsible auspices, suitable direction, and competent instruction.

Students enrolled in credit-bearing courses, at the end of the semester, receive the grade notification granted by the professor and filed with the Office of the Campus Registrar.

STUDENT SERVICES

DECEP offers individual or group counseling services to students and individuals who request it, with extended hours until 5:00 p.m., or nights and weekends by prior coordination.

The orientation pursues the purpose of assisting the student in the selection of courses or programs that are in tune with their personality, abilities and interests. Guidance addresses the intellectual and personal needs of the student with the aim of promoting the student's total development and development.

SKILL-BUILDING COURSE PROGRAM

DECEP offers a variety of courses for the development of skills in different fields at a personal and professional level. It aims to provide innovative and flexible training alternatives that allow participants to expand, reinforce or obtain knowledge according to their particular interests and needs. The Program covers the areas of: Culinary Arts, Business Administration, Plastic Arts, Computers and Technology, Medical Plan Billing, Photography, Sign Language, Manufacturing Industry Practices, Writing, Occupational Safety and Health, Youth Courses, among others.

Department of Languages

The Department of Languages offers language courses to the general public, to government agencies, private companies, and, in some cases, co-sponsors programs with U.S. institutions. The Department offers conversational English to adults, children and youth, as well as Spanish. It also offers German, Mandarin Chinese, French, Italian, Portuguese, Japanese, and Russian as foreign languages for adults. They are non-credit courses at the basic, intermediate, and advanced levels, when applicable.

Credit-Bearing Course Program

DECEP has several alternatives with academic credit that meet the needs of traditional students and other populations: The **Taller de Bellos Oficios (BEOF)** has as its fundamental objective the development of the visual arts and culture in Puerto Rico. The program emphasizes both the development of artistic creation and expression and technical excellence in the execution of the work. The courses are aimed at serving the students and faculties of the Río Piedras Campus and the general public. It offers training in the areas of visual arts, design, crafts and fine crafts to the professional artistic community.

The Workshop offers non-credit courses for which admission to the University is not required and credit courses that are offered as free electives for regular students on campus. The Workshop offers courses in drawing, painting, sculpture, the arts of ceramics, mosaics, watercolor, picture framing, carving of saints, fibers and textiles, batik, macramé, calligraphy and goldsmithing, among others.

The **Adelanta Program** is a pre-university articulation modality that allows academically outstanding students who qualify, from public and private schools in Puerto Rico, to advance credits in university courses while completing their last year of high school. These courses will be credited to you when you enter the University of Puerto Rico System as undergraduates. The Adelanta Program offers varied experiences that will help them transition to university life and subsequent exposure to global society and professional success.

Regular Campus Courses Offered Through DECEP– DECEP offers academic courses that are part of regular Campus programs. These courses are offered by request and in coordination with the Faculties and their respective programs.

CERTIFICATE PROGRAM

The professional certificates offered by DECEP are made up of a curricular sequence articulated in a particular area and are aimed at updating and strengthening knowledge and skills of different professional groups.

DEPARTMENT OF SPECIAL PROGRAMS

The Department of Special Programs has as its primary purpose to address the personal development needs of individuals through a regular offering of non-credit courses in areas such as home arts, horticulture, personal development, recreation and sports, environmental protection, and sign language, among others. In addition, through its

Tailor-made Corporate Professional Training and Training Program , develops special proposals aimed at meeting the needs of groups of employees and coordinates trainings, seminars and non-traditional courses leading to the training of specific personnel and the granting of continuing education units.

Online Courses

DECEP offers distance learning professional courses and certificates to meet its objectives of diversifying, enriching, and expanding the academic offering of continuing education and professional studies using various strategies, methodologies, and technologies.

DECEP FACULTY

The professors who collaborate in DECEP are assigned to the different faculties of the Río Piedras Campus or come from other campuses of the University of Puerto Rico, other institutions of higher education, the government and the private sector. All are selected in accordance with established recruitment standards.

CREDIT-BEARING COURSES– FREE ELECTIVES

BEOF 3001 - Design for the Artisan Artist

Three credits. Three hours of lecture and lab per week.

Theory and practice of the different design principles applied to handicrafts. Emphasis on practice, the development of aesthetic sensitivity, creativity and originality of each student.

BEOF 3002 - Design for the Artisan Artist

Three credits. Three hours of lecture and lab per week. Prerequisite: BEOF 3001.

Theory and practice of the different design principles applied to handicrafts. Emphasis on practice, the development of aesthetic sensitivity, creativity and originality of each student.

BEOF 3301 - Introduction to Ceramics Part One

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

First experience in mud handling. Knowledge of your priorities and methods of manual construction: modeling, planking and rope. The surface of the clay and its finish. Study of basic forms and their possibilities.

BEOF 3302 - Introduction to Ceramics Part Two

Three credits. Three hours of lecture a week. Prerequisite: BEOF 3301.

The student will be free to select the method of manual construction. Introduction to sculptural norms with emphasis on the integration of structure, form, enamels and oxides.

BEOF 3311 - The potter's wheel in contemporary ceramics I

Three credits. Two hours of lecture and two hours of lab per week.

Construction of the basic shapes, turning and finishing of the surface.

BEOF 3312 - The potter's wheel in contemporary ceramics II

Three credits. Three hours of lab time a week. Prerequisite: BEOF 3311

Construction of complex shapes, bottles and parts. Construction in sections.

BEOF 3313 Ceramic paste and glazes

Three credits. Two hours of lecture and four hours of lab per week.

Prerequisite: BEOF 3301-3302.

Theory and practice in the process of making ceramic pastes and glazes. Knowledge of raw materials and their uses.

BEOF 3315 - The ceramic surface

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisite: BEOF 3301- 3302.

Design applied to ceramics with emphasis on different techniques to treat the surface. Preparation of enamels and use of oxides, textures, etc.

BEOF 3317 - Raku

Three credits. Three hours of lab time a week.

Construction technique and preparation of low-temperature pastes and glazes for the local reduction process. Experimentation with the raku technique.

BEOF 3351 - Supervised Workshop: Independent Work in Ceramics I

Three credits. Three hours of lab time a week. Prerequisite: BEOF 3301- 3302, 3315, 3321.

The student will choose and develop a project in consultation with his/her advisor.

BEOF 3361 - Wall-mounted ceramic I

Three credits. Three hours of lecture a week. Prerequisite: BEOF 3301- 3302.

Theory and practice of the design and manufacture of ceramic murals. Different construction methods.

BEOF 3401 - Tapestry loom weaving I

Three credits.

The different techniques of weaving tapestries on a loom. Construction and use of different kinds of simple looms. More complex looms. Creation of original designs, their adaptation to the loom technique. Preparation of the loom. Fabric and finishes.

BEOF 3402 - Loom weaving tapestries II

Three credits. Three hours of lecture a week and lab experiences. Prerequisite: BEOF 3401.

The tapestry in different periods, specifically in contemporary art. The wall tapestry. The Big Loom. Advanced techniques. Emphasis on the design and manufacture of original tapestries. Analysis of problems faced.

BEOF 3411 - Introduction to bobbin lace: Mundillo I

Three credits.

Basic course in the art of making bobbin lace. Lace design and tailoring. Lace fabric such as laces, lace, narrow and wide, appliqués, lace for collars, scarves, doilies, etc. Role of lace in costume design. History and development of the art of bobbin lace.

BEOF 3412 - Introduction to bobbin lace: Mundillo II

Three credits. Three hours of lecture a week and lab experiences. Prerequisite: BEOF 3411.

Advanced techniques for making lace. Design of original works for costumes, accessories and applications. Analysis of design and production problems. Presentation, quality control, workshop management and marketing. Development of the art of the world in Puerto Rico.

BEOF 3425 - Introduction to Macramé

Three credits.

Learning the basic knots and combining them to achieve new knots. Emphasis is placed on the simple and original design of simple and practical objects such as: belts, basket holders, key rings, wallets, tapestries, etc.

BEOF 3451 - Batik in Contemporary Art I

Three credits.

Batik: a method of manually decorating fabrics using melted wax for colors. Includes: study and practice of the use of wax using brushes, tjanting, stamping and stenciling; preparation and use of different types of dyes; origin and history of batik; Preparation of original works.

BEOF 3452 - Batik in Contemporary Art II

Three credits. Three hours of lecture a week and lab experiences. Prerequisite: BEOF 3451.

Study of design principles and their adaptation to batik. Experiments with waxes and other products for reserves using tjanting, brush and stencils, pre painting, *discharge dyeing*, batik on paper and different types of finishing. Emphasis on original works.

BEOF 3611 - Introduction to Goldsmithing I

Three credits. Three hours of lecture a week.

Initial experience in goldsmithing. Study of the properties of different metals. Experimentation with design processes, work techniques and use of different tools. Creation of original projects.

BEOF 3612 - Introduction to Goldsmithing II

Three credits. Three hours of lecture a week and lab experiences. Prerequisite: BEOF 3611.

Development of the goldsmith's art in different periods. Advanced goldsmithing techniques. Design of original works. Analysis of design and production problems. Presentation, quality control, workshop management and marketing.

BEOF 3801 - Introduction to the Art of Bookbinding and Gilding

Three credits.

It trains the student in the basic techniques of bookbinding. General concepts about the history of the art of bookbinding, its aesthetic and technological evolution. Gilding: tracing fillets and lines, composing titles and embellishments.

BEOF 3831 - Introduction to Calligraphy I

Three credits. Three hours of lecture and lab experiences per week.

History of calligraphy, development of the different alphabets, the use of inks, pens and papers. Demonstration and practice of basic calligraphy: chancellery. Introduction to formal book calligraphy. Design, planning and preparation of original works.

BEOF 3832 - Introduction to Calligraphy II

Three credits. Three hours of lecture and lab experiences per week. Prerequisite: BEOF 3831.

Demonstration and practice of uncial, foundational and Gothic calligraphy design, lighting, planning and preparation of original works in these styles.