University of Puerto Rico
Río Piedras Campus

UNDERGRADUATE CATALOG

2025-2026

This catalog serves as an informational guide to the undergraduate academic programs, academic services, and degrees offered by the Río Piedras Campus. It also provides information regarding the Campus's organization, governance, policies, regulations, and the rights and responsibilities that govern the institution.

The Río Piedras Campus continuously reviews its academic offerings as part of its commitment to maintaining and strengthening their quality, relevance, and effectiveness. As a result of this ongoing process, some of the programs and courses described in this catalog may be modified, consolidated with other programs, or discontinued. For the most current information on academic programs and related academic matters, please visit the Office of Academic Affairs website at Office of Academic Affairs.

The University of Puerto Rico reserves the right to modify academic requirements, the academic calendar, tuition rates, fees, and other charges after the publication of this catalog.

The Río Piedras Campus of the University of Puerto Rico is an equal opportunity employer. No member of the University community or applicant for employment shall be discriminated against on the basis of race, color, sexual orientation, sex, birth, age, physical or mental disability, social origin or condition, veteran or dependent status, political beliefs, or religious beliefs.

Published by the Office of Academic Affairs, Río Piedras Campus, 2025.

TABLE OF CONTENTS

TABLE OF CONTENTS 3
GOVERNING BODIES OF THE UNIVERSITY OF PUERTO RICO 6
DEGREES AWARDED BY THE UNIVERSITY OF PUERTO RICO AT THE RÍO PIEDRAS CAMPUS 9
INSTITUTIONAL NORMS AND ORGANIZATION 12
GOVERNMENT 18
UNIVERSITY REGULATIONS AND POLICIES 22
GENERAL ACADEMIC SERVICES 39
GENERAL RULES ON COURSES AND ENROLLMENT 58
TUITION AND FEES 68
DEAN OF STUDENTS OFFICE 73
SCHOOL OF ARCHITECTURE 80
ACADEMIC PROGRAMS 83
BACHELOR IN ENVIRONMENTAL DESIGN 83
TEACHING FACULTY AND ADMINISTRATIVE PERSONNEL 85
ARCHITECTURE COURSES 85
COLLEGE OF BUSINESS ADMINISTRATION 100
ACADEMIC PROGRAMS 103
BACHELOR OF BUSINESS ADMINISTRATION - GENERAL PROGRAM 104
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN FINANCE 105
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN ACCOUNTING 107
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN ECONOMICS 108
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN HUMAN RESOURCE MANAGEMENT 111
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN APPLIED STATISTICS 113
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN COMPUTERIZED INFORMATION SYSTEMS 116
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN OPERATIONS AND SUPPLY MANAGEMENT 117
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN MARKETING MANAGEMENT 119
BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN ENTREPRENEURSHIP 120
TEACHING FACULTY AND ADMINISTRATIVE STAFF 123
BUSINESS ADMINISTRATION COURSES 125
COLLEGE OF NATURAL SCIENCES 164
ACADEMIC PROGRAMS 169
BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCES 169
BACHELOR OF SCIENCE IN PHYSICS 170
BACHELOR OF SCIENCE IN COMPUTER SCIENCE 172
BACHELOR OF SCIENCE IN MATHEMATICS 173
BACHELOR OF SCIENCE IN NUTRITION AND DIETETICS 175
BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES 176
BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES 177
BACHELOR OF SCIENCE IN CHEMISTRY 178
BACHELOR OF SCIENCE IN BIOLOGY 180
TEACHING FACULTY AND ADMINISTRATIVE STAFF 185
NATURAL SCIENCE COURSES 187

COLLEGE OF SOCIAL SCIENCES ___ ***227***
ACADEMIC PROGRAMS ___ **237**
BACHELOR OF ARTS IN ANTHROPOLOGY ___ 237
BACHELOR OF ARTS IN POLITICAL SCIENCE ___ 238
BACHELOR OF ARTS IN GENERAL SOCIAL SCIENCES ___ 240
BACHELOR OF ARTS IN ECONOMICS ___ 243
BACHELOR OF ARTS IN GEOGRAPHY ___ 244
BACHELOR OF ARTS IN PSYCHOLOGY ___ 246
BACHELOR OF ARTS IN LABOR RELATIONS ___ 247
BACHELOR OF ARTS IN SOCIOLOGY ___ 249
BACHELOR OF ARTS IN SOCIAL WORK ___ 251
TEACHING FACULTY AND ADMINISTRATIVE STAFF ___ **254**
SOCIAL SCIENCE COURSES ___ **256**
COLLEGE OF COMMUNICATION AND INFORMATION ___ ***324***
ACADEMIC PROGRAMS ___ **326**
GENERAL PROGRAM: AUDIOVISUAL COMMUNICATION ___ 326
GENERAL PROGRAM: INFORMATION AND JOURNALISM ___ 328
GENERAL PROGRAM: PUBLIC RELATIONS AND ADVERTISING ___ 329
TEACHING FACULTY AND ADMINISTRATIVE STAFF ___ **330**
COMMUNICATION COURSES ___ **332**
COLLEGE OF EDUCATION ___ ***345***
ACADEMIC PROGRAMS ___ **352**
ELEMENTARY EDUCATION – SPECIAL EDUCATION (EMPHASIS ON BEHAVIORIAL DISORDERS) ___ 353
ELEMENTARY EDUCATION – SPECIAL EDUCATION ___ 356
ELEMENTARY EDUCATION – SPECIAL EDUCATION ___ 358
ELEMENTARY EDUCATION - SPECIAL EDUCATION ___ 360
ELEMENTARY EDUCATION – SPECIAL EDUCATION (EMPHASIS IN INTELLECTUAL DISABILITIES) ___ 363
ELEMENTARY EDUCATION ___ 365
SECONDARY EDUCATION – PHYSICS ___ 368
SECONDARY EDUCATION – BIOLOGY ___ 370
SECONDARY EDUCATION – SCIENCES ___ 373
SECONDARY EDUCATION – PHYSICS EDUCATION ___ 375
SECONDARY EDUCATION– SPANISH ___ 377
SECONDARY EDUCATION – SOCIAL STUDIES/HISTORY ___ 379
SECONDARY EDUCATION – MATHEMATICS ___ 381
SECONDARY EDUCATION – CHEMISTRY ___ 383
BACHELOR OF ARTS IN EDUCATION – TEACHING OF ENGLISH AS A SECOND LANGUAGE K-12 ___ 385
BACHELOR OF ARTS IN EDUCATION – ARTS ___ 387
BACHELOR OF ARTS IN EDUCATION – MUSIC ___ 389
BACHELOR OF ARTS IN EDUCATION – PRESCHOOL ___ 391
BACHELOR OF ARTS IN EDUCATION – RECREATION ___ 393
BACHELOR OF ARTS IN EDUCATION – THEATRE ___ 395
TEACHING FACULTY AND ADMINISTRATIVE STAFF ___ **398**
EDUCATION COURSES ___ **400**
COLLEGE OF GENERAL STUDIES ___ ***479***
ACADEMIC PROGRAMS ___ **485**
BACHELLOR OF ARTS IN GENERAL STUDIES ___ 485
TEACHING FACULTY AND ADMINISTRATIVE STAFF ___ **487**

GENERAL STUDIES COURSES 490
COLLEGE OF HUMANITIES *529*
ACADEMIC PROGRAMS 536
BACHELOR IN ARTS WITH A MAJOR IN PLASTIC ARTS 536
BACHELOR IN ARTS WITH A MAJOR IN HISPANIC STUDIES 538
BACHELOR IN ARTS WITH A MAJOR IN PHYLOSOPHY 543
BACHELOR IN ARTS WITH A MAJOR IN HISTORY 544
BACHELOR IN ARTS WITH A MAJOR IN ART HISTORY 545
BACHELOR IN ARTS IN ENGLISH 547
BACHELOR IN ARTS WITH A CONENTRATION IN COMPARATIVE LITERATURE 550
BACHELOR IN ARTS WITH A MAJOR IN FOREIGN LANGUAGES 551
BACHELOR IN ARTS WITH A MAJOR IN MUSIC 555
BACHELOR IN ARTS WITH A MAJOR IN DRAMA 557
BACHELOR IN ARTS WITH MAJOR IN INTERDISCIPLINARY STUDIES 562
TEACHING FACULTY AND ADMINISTRATIVE STAFF 566
HUMANITIES COURSES 571
HONORS PROGRAM *685*
BENEFITS OF THE HONORS STUDY PROGRAM 686
ADMISSION REQUIREMENTS 686
CURRICULUM 686
HONORS PROGRAM FACULTY 688
DEPARTMENT OF AEROSPACE STUDIES *689*
PROGRAM DESCRIPTION 690
TEACHING FACULTY AND ADMINISTRATIVE PERSONEL 690
AEROSPACE STUDIES COURSES 690
DEPARTMENT OF MILITARY SCIENCES *692*
CURRICULUM 694
TEACHING FACULTY AND ADMINISTRATIVE PERSONNEL 695
MILITARY SCIENCE COURSES 695
DIVISION OF CONTINUING EDUCATION AND PROFESSIONAL STUDIES *697*
REGISTRATION AND TUITION PAYMENT PROCEDURE 700
CANCELLATIONS AND REFUNDS 700
CREDIT-BEARING COURSES–FREE ELECTIVES 702

GOVERNING BODIES OF THE UNIVERSITY OF PUERTO RICO

GOVERNING BOARD

The current members of the Governing Board for Fiscal Year 2025–2026 (Certification 70, 2025–2026) are:

CPA Ricardo Dalmau Santana
President

Lcda. Vanessa Santo Domingo Cruz
Vicepresident

Lcda. Terilyn Sastre Fuente
Secretary

Lcdo.. Eliezer Ramos Parés[1]
Secretary of Education

Attorney Francisco J. Domenech
Representative of the Puerto Rico Fiscal Agency and Financial Advisory Authority (AAFAF)

Dr. Mayda M. Velasco Bonilla

Dr. Rafael Méndez Tejeda
Faculty Representative

Dr. William Muñiz Rivera
Faculty Representative

Engineer Emilio Colón Beltrán

Mr. Julio A. Cabral Corrada

Dr. Jorge Valentín Asencio

Dr. Herman J. Cestero Aguilar

Dr. Gonzalo F. Córdova Santini

Mr. Benjamín Rivera Meléndez
Undergraduate Student Representative

Mr. Simonely Hidalgo Rodríguez
Graduate Student Representative

UNIVERSITY PRESIDENT
Dr. Zayira Jordan Conde

RÍO PIEDRAS CAMPUS
Chancellor
Dr. Angélica Varela Llavona

[1] The Honorable Eliezer Ramos Parés, Secretary of Education of Puerto Rico, designated Professor María A. Mulero Pastrana as his representative to the University of Puerto Rico Governing Board.
To view the current members of the Governing Board, visit the University of Puerto Rico Governing Board website.

ACADEMIC SENATE

Ex Officio Faculty Senators

- **Angélica Varela Llavona**, Chancellor of the Río Piedras Campus and President of the Academic Senate
- **Zayira Jordan Conde**, President of the University of Puerto Rico
- **Mirerza González Vélez**, Dean of Academic Affairs
- **Nancy Abreu Báez**, Director of the Library System
- **Reinaldo Berrios Rivera**, Dean of Graduate Studies and Research
- **Edgardo Díaz Labrador**, Interim Dean of Administration
- **Gloria Díaz Urbina**, Dean of Students
- **Anna L. Georas Santos**, Interim Dean of the School of Architecture
- **Maria I. Jimenez Chafey**, Director of the Department of Counseling for Student Development
- **Valentín Keyantuo**, Interim Dean of the College of Natural Sciences
- **Agnes M. Bosch Irizarry**, Dean of the College of Humanities
- **Grace M. Carro Nieves**, Dean of the College of Education
- **Rafael Marrero Díaz**, Dean of the College of Business Administration
- **Milagros A. Méndez Castillo**, Dean of the College of Social Sciences
- **Vivian I. Neptune Rivera**, Dean of the School of Law
- **Carlos J. Sánchez Zambrana**, Dean of the College of General Studies
- **Julia Y. Vélez González**, Interim Dean of the College of Communication and Information

Ex Officio Student Senators

- **Reynaldo Vélez Ginorio**, Interim President of the General Student Council
- **Edward J. Maldonado Rosa**, Student Representative to the University Board
- **Kemuel J. Rodríguez Montalvo**, Student Representative to the Administrative Board

Elected Faculty Senators

College of Business Administration
Segundo J. Castro González
Roberto Echevarría Marín
Aniel Nieves González
Vacant

College of Natural Sciences
Jorge L. Colón Rivera
Nancy J. Correa Matos
Elvia J. Meléndez-Ackerman
Rosaura Ramírez Ordóñez

College of Communication and Information
Iván De la Cruz Cuebas
Héctor Díaz Rodríguez

College of Education
Javier E. Carrión Guzmán
Elizabeth Cuevas De Jesús
Ángel Díaz Cabrera
Ricardo López León
Richard Román Spicer
Vacant

College of Humanities
Melanie A. Pérez Ortiz

Antoine Philippe Bernard
Alejandro Quinteros Meléndez
Pedro A. Reina Pérez

Counselors, Social Workers, and Psychologists

Rose Marrero Teruel

School of Architecture

Nathaniel Fúster Félix
Vacant

College of Social Sciences

Félix A. López Román
Vacant
Vacant
Vacant

School of Law

Oscar Miranda Miller
Miguel A. Rivera Álvarez

College of General Studies

Marta E. Collazo Santos
Aurelio A. García Archilla
Carlos A. Pérez Coffie
Ethel M. Ríos Orlandi
Janine Santiago Santiago

Graduate School of Planning

Maritza Barreto Orta

Library System

Luis J. Crespo González
Sylvia Sola Fernández

Elected Student Senators

- Erick M. Ivanovich Méndez[3] - **College of Natural Sciences**
- Yarielis López Gómez - **School of Architecture**
- Damián E. Nieves Guzmán[3] - **College of Humanities**
- Verónika Pacheco Olmo[3] - **College of Business Administration**
- Karla M. Pérez Gerena[3] - **College of Education**
- Abdiel Quiñones Ríos[3] - **College of General Studies**
- Mariana A. Soler Olivera - **Graduate School of Planning**

Composition of the Academic Senate, as of September 4, 2025 (CSA-04-2025-2026)
For the current composition of the Academic Senate, visit the Academic Senate Members Page.
[3] **These students shall continue serving in their positions until their successors are elected and certified.**

DEGREES AWARDED BY THE UNIVERSITY OF PUERTO RICO AT THE RÍO PIEDRAS CAMPUS

Bachelor's Degrees
Bachelor of Business Administration (B.B.A.)
Faculty of Business Administration

- Bachelor of Business Administration (General)
- Bachelor of Business Administration with a major in: Accounting; Economics; Entrepreneurship; Applied Statistics; Finance; Marketing Management; Management of Operations and Supplies; Human Resource Management, and Computerized Information Systems.

Bachelor of Arts (B.A.)
Faculty of General Studies

- Bachelor of Arts in General Studies.

Faculty of Social Sciences

- Bachelor of Arts with majors in Anthropology, Political Science, Social Sciences, Economics, Geography, Psychology, Labor Relations, Sociology, and Social Work.

Faculty of Humanities

- Bachelor of Arts with majors in Fine Arts, Drama, Hispanic Studies, Interdisciplinary Studies, Philosophy, History, Art History, English, Modern Languages, Comparative Literature, and Music.

Faculty of Education

- Bachelor of Arts in Education with a major in Recreation.
- Bachelor of Arts in Education with a major in English as a second language, K-12
- Bachelor of Arts in Education with majors in Art, Music, and Theater.
- Bachelor of Arts in Elementary Education with majors in Elementary Education, Special Education.
- Bachelor of Arts in Secondary Education with majors in Biology, Science, Education, Physical Education, Spanish, Social Studies, Physics, History, Mathematics, and Chemistry.
- Bachelor of Arts in Preschool Education.

Faculty of Communication and Information

- Bachelor of Arts in Communication with majors in Audiovisual Communication, Public Relations and Advertising, and Information and Journalism.

Bachelor of Science (B.S.)
Faculty of Natural Sciences

- Bachelor of Science in Computer Science.
- Bachelor of Science with majors in Interdisciplinary Studies, Biology, Environmental Sciences, Physics, Mathematics, Chemistry, and Nutrition and Dietetics.

Bachelor of Environmental Design
School of Architecture

- Bachelor of Environmental Design.

MASTER'S DEGREES
Master of Business Administration (MBA)
Faculty of Business Administration

- Master of Business Administration (MBA)
- Master of Business Administration (MBA), Accelerated Online Program

Master of Public Administration (MPA)
School of Public Administration, Faculty of Social Sciences
Specializations in Human Resources and Labor Relations, and Government and Public Policy.
Master of Architecture
School of Architecture
Master of Planning
Graduate School of Planning
Master of Information Science
Faculty of Communication and Information

- Master of Information Science
- Master of Information Science (Distance Learning)

Master of Science (M.S.)
Faculty of Natural Sciences
Specializations in Biology, Environmental Sciences, Physics, Mathematics, and Chemistry.
Master of Exercise Science
Faculty of Education
Specialization in Exercise Physiology.
Master of Rehabilitation Counseling
Graduate Program in Rehabilitation Counseling, Faculty of Social Sciences
Master in Cooperative and Solidarity Organization Management and Development
Faculty of Social Sciences
Master of Social Work
Graduate School of Social Work, Faculty of Social Sciences
Master of Education (M.Ed.)
Faculty of Education
Specializations in Leadership in Educational Organizations, Curriculum and Instruction, Family Ecology and Nutrition, Child Education (Reading and Preschool), Special Education, Educational Research and Evaluation, Teaching English as a Second Language, and Guidance and Counseling.
Master of Arts (M.A.)
Faculty of Social Sciences
Specializations in Economics, Sociology, Academic and Research Psychology, Clinical Psychology, Industrial-Organizational Psychology, and Community-Social Psychology.
Faculty of Humanities
Specializations in Hispanic Studies, Philosophy, History, English, Linguistics, Comparative Literature, Translation, and Cultural Management and Administration.
Faculty of Communication and Information
Specializations in Journalism and Theory and Research.
Master of Laws (LL.M.)
School of Law

- Master of Laws (LL.M.)
- Online Master of Laws in Oral Advocacy in the Criminal Justice System (LL.M.)

FIRST PROFESSIONAL DEGREE
School of Law

- Juris Doctor (J.D.)

DOCTORAL PROGRAMS
Doctor of Philosophy (Ph.D.)
Faculty of Natural Sciences
Specializations in Biology, Physical Chemistry, Chemistry, Mathematics, and Environmental Sciences.
Faculty of Humanities
Specializations in Hispanic Studies, English, and History.
Faculty of Social Sciences
Specializations in Psychology, Psychology (Clinical Psychology Emphasis), and Social Work.
Faculty of Business Administration
Specializations in Finance and International Business.
Doctor of Education (Ed.D.)
Faculty of Education
Specializations in Leadership in Educational Organizations, Curriculum and Instruction, and Guidance and Counseling.

CERTIFICATES
Graduate Certificate in Specialized Translation
Faculty of Humanities
Postgraduate Certificate
- Applied Linguistics to Spanish

JOINT DEGREE PROGRAM
Joint Degree Leading to:
- Juris Doctor (School of Law) and Master of Business Administration (Faculty of Business Administration)

POST-BACCALAUREATE CERTIFICATES
- Records and Archives Administrator
- Electronic Information Resources Analyst

POST-MASTER'S CERTIFICATES
Graduate School of Information Sciences and Technologies
- Administrator of Academic, Public, and Special Libraries
- Information Services Consultant
- Legal Information Specialist

PROGRAMS UNDER MORATORIUM
Faculty of Business Administration
- Bachelor of Arts in Office Management

Post-Baccalaureate Certificate
- School Librarian Certification Program

INSTITUTIONAL NORMS AND ORGANIZATION

HISTORICAL OVERVIEW

The University of Puerto Rico (UPR) was established and developed during the early decades of the twentieth century. Its origins, however, are rooted in Puerto Rico's long tradition of higher education, dating back to 1532 with the founding of the University of Saint Thomas Aquinas in San Juan by the Dominican Order. Other institutions followed, including Seminario San Ildefonso in the nineteenth century and the Institution of Higher Education of Puerto Rico, founded in 1888 under the auspices of the Puerto Rican Ateneo.

In 1900, a Normal School was established in Fajardo to prepare teachers for Puerto Rico's public schools. The school relocated to Río Piedras in 1901 and became the foundation upon which the University of Puerto Rico was built.

The University was formally established by legislative act on March 12, 1903, becoming Puerto Rico's first state-supported institution of higher education. The newly created University incorporated the Normal School into its structure and remained under the direction of the Commissioner of Education until 1924.

A significant milestone occurred in 1908, when the United States Congress extended the provisions of the Morrill-Nelson Act to Puerto Rico. This designation transformed the University into a Land-Grant College, enabling it to adopt the academic model of American universities while expanding its mission in teaching, research, and public service.

The institution quickly entered a period of academic expansion. The College of Liberal Arts was established in 1910, followed by the College of Agriculture and Mechanical Arts in Mayagüez in 1911 through legislation introduced by José de Diego. The College of Law and the College of Pharmacy were established in Río Piedras in 1913.

The University's path toward autonomy began with the legislation of August 11, 1924, which separated the institution from the Department of Public Instruction and provided it with its own administrative identity and governance structure. That same year, Dr. Thomas E. Benner was appointed the University's first chancellor.

In 1925, the Normal School became the College of Pedagogy. One year later, the School of Tropical Medicine was established, and the College of Business Administration was created in collaboration with Columbia University.

Graduate education at the University began in 1927 with the introduction of the Master of Arts in Hispanic Studies, offered by the Department of Hispanic Studies.

Federal support for agricultural research and outreach expanded during the 1930s through the extension of the Hatch, Adams, Purnell, and Smith-Lever Acts to Puerto Rico. During this period, the School of Social Work developed into an accredited graduate program and later became part of the Faculty of Social Sciences. Additional research support was provided through the Bankhead-Jones Act of 1935.

A new University Law enacted in 1942 granted greater institutional autonomy and introduced significant organizational reforms, including the creation of the Higher Education Council.

In 1943, the former College of Arts and Sciences was reorganized into the Faculties of Humanities, Social Sciences, and Natural Sciences. During the same academic year, the General Studies Program was established, eventually becoming the Faculty of General Studies. The Institute of Tropical Meteorology was also founded within the Faculty of Natural Sciences.

The Graduate School of Public Administration, authorized in 1942, became operational in 1945, and graduate education continued to expand over the following decades.

The School of Medicine was established in 1950, followed by the School of Dentistry in 1957. That same year, the Puerto Rico Nuclear Center was created with support from the U.S. Atomic Energy Commission, leading to graduate programs in nuclear technology, radiological physics, and mathematics.

The University launched its first doctoral program, the Ph.D. in Hispanic Studies, in 1963. As enrollment and academic offerings grew, the institution expanded beyond Río Piedras through the establishment of regional colleges, beginning with the Humacao campus in 1962.

The current University Law, enacted on January 20, 1966, created three autonomous campuses: Río Piedras, Mayagüez, and Medical Sciences, together with a Central Administration. This legislative framework remains the foundation of the University's governance structure.

Throughout the 1960s and 1970s, numerous campuses, schools, and graduate programs were established, including the Graduate School of Business Administration, the Graduate School of Library Science, the Graduate Program in Planning, and additional regional campuses in Arecibo, Bayamón, Ponce, Aguadilla, Carolina, Cayey, Humacao, and Utuado.

Academic offerings expanded substantially during the 1970s and 1980s, with the creation of doctoral programs in Chemistry, Biology, Physical Chemistry, Education, History, and Psychology, as well as new master's programs in communication, rehabilitation counseling, linguistics, translation, architecture, special education, sociology, and other disciplines.

In 1993, the Higher Education Council was replaced by the Board of Trustees as the governing body of the University of Puerto Rico System. In 2013, this body was renamed the Governing Board.

The University continued to modernize its academic programs during the 1990s and early 2000s. New undergraduate and graduate degrees were introduced in fields such as Computer Science, Law, Finance, International Business, Mathematics, Social Work, Cultural Management, and Environmental Sciences.

Institutional transformation continued in the twenty-first century. In 2006, the Academic

Senate approved a comprehensive revision of the undergraduate curriculum. In 2008, the University established a Master of Arts in Cultural Management and Administration, and in 2009 it approved graduate programs in Environmental Sciences.

In 2012, the Academic Senate adopted a new academic policy governing graduate education at the Río Piedras Campus. That same year, Puerto Rico enacted Act 250, providing a Postsecondary Reasonable Accommodation Passport for students with disabilities transitioning from secondary to postsecondary education.

In 2014, the Governing Board adopted strategic initiatives aimed at increasing student access, retention, and graduation rates.

Since 2019, the Middle States Commission on Higher Education (MSCHE) has authorized the Río Piedras Campus to offer academic programs through alternative instructional modalities, including distance education, within the scope of its institutional accreditation. This authorization has facilitated the development and expansion of online academic programs.

A major institutional reorganization occurred in 2020 with the creation of the Faculty of Communication and Information, resulting from the consolidation of the Graduate School of Information Sciences and Technologies and the School of Communication. The merger strengthened academic offerings while maximizing human, technological, and physical resources.

Since its founding in 1903, the Río Piedras Campus has experienced continuous growth and transformation in its academic programs, organizational structure, research enterprise, and public service mission. As the flagship campus of the University of Puerto Rico System, it remains committed to providing accessible, high-quality education and advancing the intellectual, cultural, and professional development of the people of Puerto Rico.

MISSION

The Río Piedras Precinct has a particular mission that arises from and is based on its history and cultural heritage, which distinguish it from the other enclosures and units of the system. It is this cultural heritage that provides the basis for its development and defines its orientation and peculiar contribution within the University of Puerto Rico System. The mission was approved by the Academic Senate through Certification Number 67 of 1989-1990:

To promote the comprehensive education of students through study programs that promote: intellectual curiosity, critical capacity, continuous learning, effective communication, appreciation and cultivation of ethical and aesthetic values, participation in the processes of the Campus, as well as awareness and social responsibility.

To provide graduate education of the highest quality, with research and creation at its core, and to help strengthen undergraduate education. In addition, to provide post-baccalaureate programs for the training of professionals of the highest caliber, committed to the ideals and values of Puerto Rican society. Provide undergraduate education of excellence that offers a comprehensive view of knowledge. It should harmonize general education and specialized training and develop capacities for independent study and research.

Develop teaching, research, service and integration to the community, in accordance with the historical and social reality of Puerto Rico, in harmony with its Caribbean and Latin American

environment, and projecting itself to the international community. The body of knowledge relevant to the consolidation of the Puerto Rican nationality, its history, language and culture will be enriched and strengthened. It will also promote the development and dissemination of knowledge at the international level.

Develop innovative and relevant research, community service, and continuing education programs that respond to and contribute to academic endeavor and professional of the Venue. They should also contribute to the transformation and continuous progress of Puerto Rican society, to the analysis and formulation of solutions to the country's socio-economic and political problems, and to the improvement of the quality of life.

ACCREDITATION & AFFILIATIONS

The University of Puerto Rico was recognized as an institution of higher learning and admitted to the *Middle States Association of Colleges and Secondary Schools* on April 29, 1946. The most recent reaffirmation of accreditation of the Río Piedras Campus took place in June 2016. The University has also been a member of the Association of Hispanic American Universities since 1955. In 1965 the UPR joined the *College Entrance Examination Board;* the Río Piedras Campus became institutionally affiliated in 1967. The University is also a member of the *American Council on Education.* In 2006, the Carnegie Foundation classified the Río Piedras Campus as a research university with a high level of research activity, the only one in Puertond in Puerto Rico. The Museum of History, Anthropology, and Art at the Rio Piedras Campus is accredited by the *American Allliance of Museums,* Washington, DC. Likewise, the Library System has been evaluated and is governed by the standards of the *Association of College & Research Libraries.* The Student Development Counseling Department is accredited *by the International Association of Counseling Services* (IACS) and the NAEYC (National Association for the Education of Young Children) Preschool Development Center by NCATE.

The individual accreditations of the different Colleges, Schools and Departments are indicated in the corresponding sections.

NC-SARA

The Río Piedras Campus participates in the National Council for State Authorization Reciprocity Agreements (NC-SARA), a national initiative that facilitates the delivery of distance education programs and courses across participating states and territories through a common framework for authorization and regulatory compliance. NC-SARA enables eligible institutions to offer distance education to students located in other participating jurisdictions without having to obtain separate authorization from each individual state or territory.

Membership in NC-SARA strengthens the institution’s ability to expand access to online education, support student mobility, and ensure compliance with established standards for interstate distance education. It also streamlines the regulatory and administrative processes associated with offering academic programs beyond the institution’s home jurisdiction, reducing costs and promoting greater operational efficiency.

For the Río Piedras Campus, participation in NC-SARA serves as a strategic mechanism that supports the expansion and geographic reach of its academic offerings while reinforcing its

commitment to quality, transparency, and student protection in distance learning environments. Membership also facilitates access for students residing in participating states and territories to the Campus's academic programs, thereby broadening educational opportunities and strengthening the institution's presence in virtual learning environments.

ALUMNI ASSOCIATION

It was created in 1948 by a group of graduates under the name of the University of Puerto Rico Alumni Association, following the pattern of other associations created in institutions in the United States. It is affiliated with the American Alumni Congress and maintains close coordination with the Office of Development and Alumni attached to the Office of the Provost. Its purpose is to serve the University and stimulate the best relations among its members in order to achieve the academic and philosophical goals of the Institution, which, in turn, promotes the well-being of the Puerto Rican community at large.

Description of Facilities

Founded in 1903 following the relocation of the Insular Normal School from Fajardo to Río Piedras, the University of Puerto Rico, Río Piedras Campus, has served as the historic and academic center of Puerto Rico's public university system. Throughout its history, the campus has become deeply embedded in Puerto Rican society and is widely recognized as one of the island's most distinguished institutions of higher education.

Since its modest beginnings, the campus has expanded from its original 97 acres to approximately 262 acres. Today, it is home to ten academic units:

- Faculty of Business Administration
- Faculty of Communication and Information
- Faculty of Education
- Faculty of General Studies
- Faculty of Humanities
- Faculty of Natural Sciences
- Faculty of Social Sciences
- School of Architecture
- School of Law
- Graduate School of Planning

The Río Piedras Campus offers approximately 130 undergraduates and graduate academic programs. Supporting these academic activities are a wide range of student and faculty services and facilities housed in approximately 150 buildings, encompassing nearly 5.9 million square feet of built space.

The campus is also recognized as a significant green space within the San Juan metropolitan area, with approximately 88 percent of its grounds consisting of open space. The campus location and facilities comply with the regulations established by the Puerto Rico Board of Postsecondary Institutions (JIPs).

In addition, the campus features numerous cultural facilities that enrich the student experience while serving the broader community. These include the Museum of History, Anthropology and Art, the University Theater, the Student Center, and the José M. Lázaro General Library. Altogether, the campus houses approximately 30 cultural and artistic venues, including auditoriums, seminar rooms, and exhibition galleries, as well as 11 principal libraries.

The Cosme Beitía University Sports Complex includes a gymnasium, two swimming pools, track and field facilities, volleyball, basketball, and tennis courts, soccer and baseball fields, and locker rooms. The Department of Physical Education and Recreation supports 11 varsity athletic programs in addition to a variety of instructional and recreational courses.

The University also provides a broad range of support services for students, faculty, and staff, including medical and psychological services, academic and personal counseling, student housing, and other essential resources that contribute to student success and well-being.

Contact Information

Physical Address
14 Ave. Universidad
STE 1401
San Juan, PR 00925

Mailing Address
P.O. Box 23305
San Juan, PR 00931

Telephone (787) 764-0000, ext. 83001
Website www.uprrp.edu

GOVERNMENT

GOVERNING BOARD

The Board of Governors was created in 2013 as an independent and autonomous body that governs the system of 11 units that make up the University of Puerto Rico. Prior to its creation, these responsibilities were carried out by the former Council of Higher Education (CES) and the former Board of Trustees (JS).

The Governing Board's job is to govern the University, oversee the overall operations of the institution, and create guidelines that govern its direction and development. The Board does not get involved in administrative details or in tasks pertinent to the Presidency or the Rectors or other university officials.

The Board represents the public interest in the University, always ensuring the protection of the University against partisan political interest, or any other interest that undermines its autonomy, anti-intellectual tendencies that manifest themselves against academic freedom, the promotion of critical consciousness, and the full development of the virtues of the student body. It is composed of 13 members, namely a regular undergraduate student; a regular student in a graduate program of the University; two professors with permanent appointments in the university system; the Secretary of Education, on an ex officio basis; a professional with extensive knowledge and experience in the field of finance; a resident of Puerto Rico who has participated with distinction in social and community leadership; five residents of Puerto Rico who excelled in artistic, scientific and professional knowledge; and a citizen residing in Puerto Rico, linked to Puerto Rican communities abroad. With the exception of the two students and the two professors, who are elected, the other members of the Board of Governors are appointed by the Governor with the advice and consent of the Senate. All members of the Board of Governors hold office for staggered terms, fixed in the University Act and until their successors are appointed and take office.

THE LAW OF THE UNIVERSITY OF PUERTO RICO ESTABLISHES THE FOLLOWING NON-DELEGABLE DUTIES AND POWERS OF THE GOVERNING BOARD:

Approve the University's comprehensive development plan and review it annually.

Authorize the creation, modification and reorganization of campuses, centers and other institutional units of the University; of colleges, schools, faculties, departments and dependencies of the University; but it may not privatize, alienate or abolish the autonomous institutional units existing at the time of the approval of this law, without prior authorization of the Law.

Provide for the creation and elimination of positions of auxiliary officials of the President of the University.

Authorize the creation and elimination of positions of deans who do not preside over faculties.

Approve or amend the General Regulations of the University, the General Student Regulations, the Student Regulations of each campus,

the Regulations of the Retirement System and any other regulations of general application, subject to the provisions of the Uniform Administrative Procedure Law, Law No. 170 of August 12, 1988, as amended.

Resolve appeals filed against the decisions of the President, the University Board, and the Board of Appeals of the technical administrative staff in the university system.

To appoint, in consultation with the academic senates or equivalent bodies of the respective units, the President of the University, the rectors of the university campuses and of any other autonomous unit created within the university system and that, due to its condition, the Governing Board determines should be directed by a Rector. Such officials shall take up their duties at the discretion of the Board. The Governing Board shall evaluate the work of each of the officials in each term of not less than two (2) years, nor more than four (4) years of their incumbency. The evaluation will be in writing, discussed with each incumbent and will form part of the corresponding file of the Governing Board.

Approve the appointment of the Chief Financial Officer of the University of Puerto Rico.

To consider and approve the proposed budget of the university system submitted by the President annually, and to approve and maintain a uniform system of accounting and auditing for the use of the funds of the University in accordance with the law and regulations. When, at the end of a fiscal year, the budget of the University corresponding to the following year has not been approved in the manner provided for in the Law of the University of Puerto Rico, the budget that was in force during the previous year shall apply.

To submit annually to the Governor and the Legislative Assembly a report on its management and the state and finances of the University.

To adopt rules regarding the rights and duties of university staff, and to set salaries and emoluments for University officials appointed by the Governing Board itself.

To create and award academic distinctions on their own initiative or at the proposal of the Academic Senates.

Establish the procedure for the temporary replacement of university officials.

Adopt rules of procedure.

Maintain a health insurance plan and pension system for all university personnel, which shall include a loan plan without interfering with the powers of the Retirement Board.

Organize the office, appoint staff and hire the services of experts, consultants and technicians necessary to exercise the powers established in this Law and to make the necessary allocations for such

purposes. The career staff of the previous Board of Trustees will be transferred to the new Governing Board, and will retain all the rights, privileges and obligations acquired.

Establish general rules for the granting of scholarships and any other financial aid in the public university system.

Develop mechanisms that lead to a better transition between the programs of the country's higher schools, especially the public ones, and the programs of the University, so that the country's students are trained in an environment conducive to university education.

Authorize the creation of subsidiary or affiliated corporations to offer services to the university community and the people of Puerto Rico.

Fully meet the requirements of accrediting entities, regional and in-house, including the Puerto Rico Board of Education, the *Middle States Commission on Higher Education,* and those that offer particular professional accreditations.

Fully attend to the requirements of public entities and instrumentalities of the Commonwealth of Puerto Rico or the government of the United States of America that may grant funds to the University or provide assistance in the development of programs.

Ensure that the University of Puerto Rico serves as a binding force between our country and the rest of the world.

To promote, in accordance with the practices accepted in the best university institutions in the world, the sustained link between the graduates of the University and their Alma Mater, seeking, as a result of this linkage, the due economic support for the Institution.

Ensure the healthy maintenance and updating of university infrastructures, both constructive and technological, paying particular attention to the architectural heritage of which it is the depository.

PRESIDENT

The *President* of the University of Puerto Rico is the director of the University System, representative of the Board of Governors, the president of the University Board, the director of the Central Offices of the University of Puerto Rico, the representative of the University before the Courts in the corporate functions of the University and *ex- officio* member of the faculty, Academic Senates and Administrative Boards of the University System.

The President is responsible for submitting to the Governing Board the University's comprehensive development plan and its annual revisions, the regulations of general application and agreements of the University Board that require its approval, the draft budget for the University System, and the annual report to the Governing Board on university life. The President establishes relations with universities and cultural centers in Puerto Rico and abroad, resolves appeals of rectors' and directors' decisions, establishes and administers uniform systems and procedures to achieve the functions, objectives, and actions of the university system. Submits to the Governing Board the appointments of rectors, directors y other officials of the system. It has the authority to order studies and make recommendations to institutional bodies.

UNIVERSITY BOARD

The *University Board* maintains the integration of the university system through joint planning and advises the President of the University in the coordination of the academic, administrative and financial aspects of the different institutional units. The Board formulates a draft of the General Regulations of the University, which is submitted to the Academic Senates for examination and then submitted by the President for the consideration of the Governing Board. The Board also formulates the General Student Regulations to be submitted to the Governing Board and considers and makes pertinent recommendations on the comprehensive development plan and the budget for the University System. In addition, the University Board resolves appeals to decisions of the Administrative Boards and Academic Senates of the Campuses, as well as initiatives in the development, planning, and coordination of the University of Puerto Rico.

Chancellors and Directors

The University of Puerto Rico campuses of Río Piedras, Mayagüez, Medical Sciences, Humacao, Cayey, Arecibo, Aguadilla, Bayamón, Carolina and Utuado are led by their respective rectors /chancellors. Other autonomous institutional units within the university system are headed by a director.

The *Rector/Chancellor* exercises administrative and academic authority within the scope of their respective institutional unit (campus) and presides over the Academic Senate, the Administrative Board, and the meetings of the Senate. It has the power to appoint deans, heads of departments and other departments, university staff, visiting lecturers, and other visiting staff.

Resolves appeals of deans' decisions. Represents the Campus at events, ceremonies and academic functions. It formulates the draft budget of its Campus, based on the recommendations of the different dependencies, and submits the annual report of activities of its Campus to the President of the University and the Governing Board.

ADMINISTRATIVE BOARDS

In each campus, there is an *Administrative Board* that advises the Rector in the exercise of their functions, prepares projects and plans for the development of the institutional unit, considers the draft budget of the Campus and grants, at the proposal of the Rector, the licenses, academic ranks, tenure and promotions of the teaching and technical staff of the campus.

ACADEMIC SENATES

Each University Campus has an *Academic Senate*, which constitutes the official forum of the academic community, where general problems affecting the functioning of the University are discussed, and for other matters in which it has jurisdiction. It is composed of the Rector, the teaching staff elected to the position of academic senators, the student representatives and the deans as *ex-officio members.*

It exercises jurisdiction in determining the general orientation of the Campus' teaching and research programs, establishing the general rules for admission, tenure, promotion of rank, and license of faculty members, and establishing general requirements for admission, promotion, and graduation of students. The Academic Senate makes recommendations to the Board of Governors on the creation or reorganization of faculties, colleges, schools, and other dependencies on the Campus, and on the creation and awarding of academic distinctions. It makes recommendations to the University Board on the draft General Regulations and the General Student Regulations. The Academic Senate may establish general rules for dealing with those matters of the Institution not detailed in any regulation and submitting an annual report on its work to the Senate.

Faculty

The faculty consists of the Chancellor, deans, department chairs, and teaching personnel. The General Regulations of the University of Puerto Rico define the exercise of their functions, responsibilities, prerogatives, duties, and rights.

Students

Students are an integral part of the university community. Their rights and responsibilities are established in the General Student Regulations. Students are represented before the University administration through the General Student Council and before the faculties and schools through the respective Student Councils of each academic unit. Students also hold representation on all governing bodies of the institution.

UNIVERSITY REGULATIONS AND POLICIES

GENERAL REGULATIONS OF THE UNIVERSITY OF PUERTO RICO

The General Regulations were amended and approved by the Council of Higher Education on December 10, 2006. These regulations establish the rules of general application in the University System necessary for the governance, organization, and better fulfillment of the objectives of the University of Puerto Rico. These regulations contain the general provisions on the composition and governance of the University System, powers and functions of its components at the central level and of the institutional units and faculties, and the regime of university personnel recognized at the University of Puerto Rico. The regulations' original regulations came into force on April 1st, 1981. The Governing Board, through certification #55 2022-2023, approved a new version that incorporates all the approved amendments. https://apicertificaciones.upr.edu/file/download/26272

GENERAL REGULATIONS FOR STUDENTS OF THE UNIVERSITY OF PUERTO RICO

Rights and Duties

Article 2.1 - Institutional Policy

The fundamental right of university students in the academic community is the right to educate themselves. This right is not limited to the classroom, but encompasses all possible experiences and relationships with peers, teachers, non-teaching staff

and with their fellow citizens in the community at large. The primary duty of the student is to fully exercise this right and to behave in such a way that their conduct does not limit other members of the community in the exercise of their rights or in the performance of their duties.

To make possible the high aims of education, the student will cultivate the principles of integrity, mutual respect and serene dialogue in their relations with the other members of the university community. The University is committed to these principles, and, in consideration of the students, all members of the university community must respect them and make them their own. The University of Puerto Rico will also guarantee the provision of student procurement services in the units of the System, in accordance with the rules adopted for that purpose.

Article 2.2 - Interpretation

These Regulations must be interpreted in such a way as to promote an institutional culture of respect for the rights recognized by our legal system and these Regulations.

Article 2.3 - Prohibition of discrimination

The University of Puerto Rico prohibits any discrimination in education, employment, and services on the basis of race, color, sex, birth, age, social origin, ancestry, marital status, religious or political ideas or beliefs, gender, sexual preference, nationality, ethnic origin, disability, status as a veteran of the Armed Forces, or for being a victim or perceived victim of domestic violence, sexual assault or stalking. This Anti-Discrimination Policy extends to all functions and activities of the University and the institutional units that make up its System, such as employment and job selection, educational programs, services, admissions, and financial aid, among others.

This Anti-Discrimination Policy covers all students in their relationship with the University and will apply to the benefits, services, programs and benefits the University provides. The right of every student to orderly participate in the activities they carry out shall be guaranteed, as well

as reasonable accommodation for any student with disabilities or conditions documented and not constituting, in themselves, a disability for university studies or a risk to other people.

Article 2.4 - Policies against Sexual Harassment and Illicit Use of Drugs, Controlled Substances and Alcohol Abuse

All members of the university community have the duty to behave appropriately and respectfully towards others. In accordance with this principle and applicable laws and policies, physical, verbal or psychological abuse, or sexual harassment from any member of the university community or the external community will not be tolerated in this Institution.

It is also the policy of the University to promote an environment free from the illicit use of drugs, controlled substances, and alcohol abuse.

The achievement of the above will be done through education and strict compliance and the law, regulations, policies and procedures adopted by the University on a

case-by-case basis.

Article 2.5 - Student Records

Students' academic and disciplinary records will be kept separately. Information relating to these disciplinary records shall not be made available for use by unauthorized persons at or outside the University without the student's consent, except as required by a court or by law. The student has the right to obtain copies of their academic and disciplinary records and must be informed of any changes in the substantive content thereof, in accordance with the procedures set forth in the university rules and regulations. The university authorities shall not prepare student records for purposes other than those expressly authorized by applicable law and regulations and these may never be done in violation of students' civil rights or rights recognized in these Regulations. These rules are without prejudice to any federal or state laws and regulations that protect the information contained in student records.

Part B - Academics

Article 2.6 - Academic Relationship

The work of the discipline or area of knowledge under study and its multiple links constitutes the focus of the relationship between the professor and the student. The utmost intellectual integrity must preside over the pursuit of knowledge. The professor-student relationship is based on mutual respect. Both will foster creative dialogue and freedom of discussion and expression. During the course, they will have the opportunity and the right to present reasoned objections to the data or opinions presented by each other. Both will be able to examine any aspect of the discipline or area of knowledge in accordance with the rules of intellectual responsibility of the academy. Neither will use the classroom as a platform to preach doctrines unrelated to the subjects of instruction, whether political, sectarian, religious, or otherwise. The right to freedom of discussion and expression does not relieve the student or the professor of the responsibility to comply with the requirements of the course and the academic offer as approved by the official bodies of the University.

Article 2.7 - Guarantees of personal beliefs

The nature of the relationship between professors, students, and the administration deserves mutual respect. The student has the right to express their personal beliefs in the classroom within the context and framework of the academic discussion and will not be considered in administrative or any other type of proceedings against the student, nor in evaluating their academic performance or achievement. Information obtained by a faculty member during their work about the student's beliefs, views, ideology, or political affiliations will be considered confidential, and may only be

used following university rules. In case of doubt about the nature of a student's conduct in the academic context and involving the manifestation of personal beliefs, the institutional policy will favor their right to freedom of expression.

Article 2.8 - Academic Care Outside the Classroom

The student-professor relationship outside the classroom is part of the educational process. The student has the right to receive due attention and supervision from the professor in charge of directing research projects, independent studies, theses or dissertations. In addition, they will have the right to meet with the lecturer at times specially designated for this purpose to request guidance or clarify any aspect of their academic work.

Article 2.9 - Classroom Discipline

Primary jurisdiction over classroom discipline and student conduct related to academic tasks, such as participation in daily tasks, assignment preparation, labs, exams, interviews, grades, and other similar activities, rests with the professor. This, without prejudice to the responsibility of the professor to report the conduct of a student to the Dean, Director of Department or other university authorities responsible for determining whether it is appropriate to initiate a disciplinary process under Chapter VI of these Regulations. See also Rule 6.14 of the Rules of Procedure.

Article 2.10 - Course Record or Syllabus

The student has the right to receive from their professor, no later than the first week of the course, a document in printed or electronic format, describing how the course work plan will be fulfilled. This document should be discussed in class by the professor and represents the agreement and commitment that the professor establishes with their students. The University encourages students to express their opinion about the topics, methodologies and evaluation criteria of the course, so the professor will provide students with the opportunity they deem reasonable to suggest changes to the document.

The course syllabus will include at least the following elements:

Description and academic objectives of the course.

Methodology and strategies to use.

Calendar of course activities.

The prerequisites for course approval include, but are not limited to, evaluation mechanisms and criteria, rules on attendance, tardiness, reassessments, and participation in the course.

The professor's office hours, as well as the location of their office. The professor may inform about other mechanisms by which the student can contact the student outside of the classroom.

Notification to all of students displaying lack of academic integrity will result in disciplinary sanctions.

Notification required by institutional policy regarding reasonable accommodation for students with disabilities.

Any other information required by the relevant academic authorities.

In any case in which the file is delivered in electronic format, the student will have the right to request a printed copy from the corresponding department, if they do not have the resources to be able to print it.

Article 2.11 - Student Assessment

Students have the right to have their academic work evaluated fairly and objectively and

that their grade is based only on considerations related to the evaluation of their academic work. Such assessment must be accessible to the student within a reasonable period of time to be established by the institutional unit.

Article 2.12 - Review of the evaluation

The student may request a review of the evaluation from the professor when they understand that it does not meet the established or agreed criteria, for which they will follow the procedure for reviewing grades established or customary in each unit. The first instance of review is constituted by the professor who was in charge of the course. The work that the student has done during a course will be retained by the professor for six (6) months after the student's final grade is submitted. Each Academic Senate shall establish procedures to be followed to ensure a fair and adequate review.

Article 2.13 - Replacement of material due to the absence of the professor

The student has the right to have the replacement of the discussion time on the material corresponding to any session of the course in which the professor has been absent.

Article 2.14 - Recognition for Academic Work and Authorship

Students have the right to be consulted and to have their contribution or authorship properly recognized when the product of their work is to be used by the professor, researcher or lecturer in any publication, research, conference or any other form of dissemination of knowledge.

STUDENT REGULATIONS OF THE RÍO PIEDRAS CAMPUS

The law and tradition of the Campus recognize the rights of students as members of the university community and indicate the duties of moral and intellectual responsibility to which they are obliged as members of the university community. They also recognize the responsible participation of students in ensuring and maintaining order, security, and normality in institutional tasks. Thus, the campus welcomes the democratic and responsible participation of its students in institutional processes.

Rights and Duties

Article 1.01

As students and as collaborators in the University's mission of culture and service, students are members of the university community and, as such, will enjoy the right to participate effectively in the life of that community and will have all the duties of moral and intellectual responsibility to which it by its nature obliges.

Article 1.02

Students have the duty and the right to strive in the search for and expression of the truth, always respecting dissenting criteria. This will be guided by academic rigor, the style of conduct inherent in the academic community, and the dictates of one's own conscience.

Article 1.03

Every university student has the duty to seek the intellectual and spiritual formation that tends to their full development as a person, and the right to demand it, in view of their responsibility as a citizen of the Puerto Rican community. It also has the duty and the right to preserve, enrich and disseminate the values of knowledge and culture, both universal and those of the people of Puerto Rico.

Article 1.04

Every university student shall have the right to receive the services of the student

procurement, in accordance with the rules adopted for this purpose. The University of Puerto Rico has the duty to guarantee the services of the student prosecutor's office.

Article 1.05

Students may celebrate, in accordance with the established rules, any act, meeting or ceremony, and invite any person they wish to listen to speak to them on any topic of interest to them, provided that exercising any of the aforementioned rights does not interrupt the teaching, technical or administrative work of the institution, and complies with the provisions of the regulations in force.

Article 1.06

Students will receive administrative support for student activities, in order to facilitate the right of association and assembly, thus having time and space to do so.

Article 1.07

Students will be able to associate freely, and will be able to edit and distribute publications, always in accordance with the rules in force.

Article 1.08

No student may be deprived, on grounds of sex, race, origin, social status, political or religious belief, of the right of association or of the services and programs provided by the University.

Article 1.09

All members of the university community have the duty to observe appropriate and respectful conduct towards other people, including the use of information technologies. Therefore, physical, verbal or psychological abuse, or sexual harassment from any member of the university community or from outside the University will not be tolerated in this Institution.

Article 1.10

Every university student has the right not to have information related to their political, religious or philosophical beliefs disclosed by the University. The University will not keep a record of these beliefs. Academic and disciplinary records will be kept separately from each other. Information contained in academic or disciplinary records shall be confidential and is not available for use by unauthorized persons at or outside the University without the written consent of the student, parent or guardian and in cases where a court order is issued.

Article 1.11

The student will have the right and the duty to actively participate, consult their professors, express their doubts and divergences of criteria, and know their failures and achievements in academic work.

Students will have the right to receive information and dialogue with their teachers about the evaluation of their work and performances, the grades received and about the evaluation of the course as an essential part of the learning process.

Article 1.12

The professor-student relationship is based on mutual respect. Both will foster creative dialogue and freedom of discussion and expression. The right to freedom of discussion and expression does not relieve the student or the professor of the responsibility to comply with the requirements of the course and the academic offer as approved by the official bodies of the University.

Article 1.13

Students shall have the right to elect their representative(s), with voice vote, in the committees responsible for creating and reviewing the curriculum of their college or professional

school in accordance with the institutional mechanisms established in the colleges and schools.

Article 1.14

The nature of the relationship between professors, students and administration deserves mutual respect. The student has the right to disagree in the classroom within the context and framework of the academic discussion and will not be considered in administrative or any other type of proceedings against the student, nor in the evaluation of their academic performance.

Article 1.15

Students will have the right to receive from their professor a transcript or syllabus in printed or electronic format, which describes how the course work plan will be complied with and how the student will be evaluated. This document represents the agreement and commitment that the professor establishes with their students and the responsibilities of the student in the course. The syllabus must be submitted and discussed during the first week of classes.

Article 1.16

The student will have the right to meet with the professor at times specially designated to request guidance or clarify any aspect of his or her academic work.

Article 1.17

Primary jurisdiction over discipline within the classroom and over student conduct related to academic work and other consonant activities rests with the teacher. This, without prejudice to the responsibility of the professor to report the conduct of a student to the head of the department, dean or other university authorities who are responsible for determining whether to initiate a disciplinary process.

Article 1.18

Students will have the right to have their academic work evaluated in a fair, objective and impartial manner, and to have their grade based only on considerations related to the evaluation of their academic work, as indicated in the course record or syllabus.

Article 1.19

The student has the right to request a review of their evaluation from the professor when they understand that it does not meet the established or agreed criteria, for which they will follow the grade review procedure established in the Certification in force at the time the situation arises.

Article 1.20

The student shall be entitled to receive from their professor the final grade of their incomplete removal work no later than eight (8) weeks after submitting such work. If the professor does not make any notification regarding the change of the provisional grade within the established term, the student may go to the relevant committee or instance of the Dean's Office of each faculty or school for the evaluation of their work for the removal of incomplete.

Article 1.21

Students will have the right to have course schedules available three (3) days prior to the date the course selection process begins. Students will have the right to have the names of the professors who will teach the courses indicated in the timetable of the courses.

Article 1.22

Students will be entitled to a period of changes in their tuition. The dates set for changes in enrolment must be explicitly listed on the academic calendar from the date the course selection process begins.

Article 1.23

The student will have seven (7) school days, starting from the first day of classes at the Campus, to withdraw from a course without it being noted and with the right to receive 100%

refund. In the case of summer courses, the student will have two (2) days after the session begins.

Article 1.24

Students shall have the right to have their discussion time made up on the material corresponding to any session of the course in which the professor has been absent.

Article 1.25

Students have the right to be consulted and to have their contribution or authorship properly recognized when the product of their work is to be used by the professor, researcher or lecturer in any publication, research, conference or any other form of dissemination of knowledge and media format.

Article 1.26

All students have the right to access quality and excellence services at the relevant and appropriate times, including enrollment processes; health care services; counseling services; guidance and procurement; financial assistance; the use and availability of library resources and laboratories; data centers; sports and recreation centers, and other similar services provided by the University. In addition, they have the obligation to comply with the rules established for the use or enjoyment of university services and facilities.

Students have the right to use university assets responsibly, as well as the duty to protect

and care for them. Likewise, students have the right to enjoy physical facilities that comply with health protection and personal safety standards.

Article 1.27

The Dean of Students of the Campus will enable the participation of the students residing in the university residences of the institution to auscultate their needs and interests, according to the rules of the Campus.

Article 1.28

A complaint is a claim or protest made by a student due to a disagreement with a procedure or the treatment received from an employee. The complaint should be submitted to the higher authority of the individual who initially attended to the student. No specific formality is required for filing a complaint.

Article 8

The student will have the right to meet with the professor at times specially designated for this purpose, to receive guidance and clarify issues related to their academic work.

Article 9

Students will have the right and duty to actively participate in classes and related activities, to consult their professors, express their doubts and divergences of criteria, and learn about their shortcomings and achievements in academic work. Students shall have the right to receive from their professors, at the beginning of each course, appropriate guidance on the syllabus of the course, either orally or in writing, including explanations of the academic purposes and objectives, the pedagogical methods to be used, the topics of study, the readings and other work requirements. the qualification criteria and the other relevant aspects, all without prejudice to the necessary flexibility of the courses. Students will have the right to receive information and dialogue with their teachers about the tests taken and grades received and about course evaluation as an essential part of the learning process.

Article 10

Every student has the duty to exercise their rights and responsibilities intensely and responsibly as set forth in these regulations. By setting a good example both inside and outside the classroom, students can best protect and enjoy these rights.

These rights and duties, the disciplinary processes concerning the violation of these and many other matters of concern are described in the Student Regulations of the Río Piedras University Campus, available in the Office of the Dean of Students. (Copies of these Regulations, including their other provisions, are available from the Campus Dean of Students.)

FOREIGN NON-IMMIGRANT STUDENTS

The Río Piedras Campus is authorized by law to admit foreign non-immigrant students. (For additional information, refer to the Academic Regulations section and the Special Rights for Non-Resident Students section).

REGULATIONS FOR THE USE OF FACILITIES OF THE DEPARTMENT OF PHYSICAL EDUCATION OF THE COLLEGE OF EDUCATION

Approved in 1999, it establishes the rules for the use of the facilities of the Sports Facilities of the Campus by students, professors and other interested parties. It is available in this department.

INSTITUTIONAL POLICY OF THE RÍO PIEDRAS CAMPUS ON THE PRIVACY OF ACADEMIC RECORDS

The University of Puerto Rico intends to comply fully with the provisions of the Buckley Amendment (Family Educational Rights and Privacy Act of 1974, as amended). This law protects the private nature of students' educational records and establishes the right of students to inspect and review such records. It also provides guidelines for correcting the accuracy of information through informal and formal hearings. Students have the right to file complaints, if they choose, with the Family Educational Rights and Privacy Act Office, Department of Education, 400 Maryland Avenue, S.W. Room 4524, Switzer Building, Washington, D.C. 20202, regarding alleged violations of the law by the institution.

Copies of the institutional policy established by the University in compliance with the law may be obtained from the Office of the Dean of Students, the Office of Financial Aid, the Student Affairs Offices of colleges and schools, and the Registrar's Office.

INSTITUTIONAL POLICY ON EQUAL OPPORTUNITIES

The Río Piedras Campus of the University of Puerto Rico guarantees equal opportunities to its applicants for employment and admission to study, and to students and employees both in terms of study and employment opportunities and the enjoyment of the academic services and programs offered and terms and conditions of employment.

The Precinct does not exclude from participation, deny benefits or discriminate against any person based on age, race, sex, sexual orientation, color, birth, origin or social status, physical or mental disability, or political or religious ideas.

Any applicant for admission to study or student, as well as any applicant or employee who believes that they have been discriminated against for the reasons set forth above, may file a complaint in writing with the designated officer, namely: Dean of Academic Affairs.

The establishment and enforcement of this policy and its publication is in accordance with the federal regulations for the implementation of Title IX, the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the American with Disabilities Act of 1990.

LAW AND BENEFITS FOR VETERAN AND DEPENDENT STUDENTS

The following individuals must be considered residents for the purpose of setting tuition and fees:

- A veteran who uses financial aid for studies under Chapter 30 GI Bill® or Chapter 33 Post-9/11, and lives in Puerto Rico while attending the University of Puerto Rico (regardless of residency status), must enroll within three years of their discharge or retirement from active duty of at least 90 days.
- Anyone who has been transferred the Post-9/11 or GI Bill® benefit, and lives in Puerto Rico while attending the University of Puerto Rico (regardless of residency status), must enroll within three years of discharge or retirement from active duty of at least 90 days.
- Anyone who uses benefits under the Marine Gunnery Sergeant John David Fry Scholarship Act, and lives in Puerto Rico while attending the University of Puerto Rico (regardless of residency status), must enroll within three years of the death of the veteran who was on active duty for at least 90 days.
- Any of the above individuals who remain consistently enrolled in the same institution (except for scheduled academic breaks each semester). The student must have enrolled at the institution before the expiration of the three-year period following discharge or death described in the preceding paragraphs and must be using study benefits under Title 38, Chapters 30 or 33, United States Code. (Translation ours).

Veteran services office

The Veteran Services Office attends to veterans, dependents of veterans, serviceperson in matters pertaining to the Veterans Administration such as: educational benefits, registration, and studies at the university.

Education and training benefits for veterans

The school is approved by the Puerto Rico State Approving Agency to provide academic training to students under various GI Bill® programs. GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). UPR students who are veterans (as defined by the Veteran's Administration) of the United States Armed Forces can receive benefits under Chapters 1606 - Montgomery GI Bill® Selected Reserve, CH. 30 – Montgomery GI Bill® Active Duty, CH. 35 - Survivor and Dependents Educational Assistance, CH. 31 - Veteran Readiness and Employment, CH. 33 - POST-9/11 GI Bill®, and Title 38 - United States Code Section 3679(e) School Compliance Form.

Section 103, PL 115-407 prevents a school from penalizing a student while waiting for the VA to make tuition and fee payments. The institution cannot deny a student access to classrooms, libraries, or other institutional facilities. It cannot make the student borrow money to cover costs while waiting for payment or charge a late fee or penalty. This applies to students benefiting from Chapter 31 or Chapter 33 of the Post-9/11 GI Bill®.

Academic Progress (applicable to veterans and/or beneficiaries)

Veterans and/or beneficiaries should complete their studies during the regular time allotted (100%) as stated in the program curricula. If they exceed the time allotted, they lose eligibility for the benefits of Veterans Programs. This norm is not applicable to federal aids such as Pell Grant or others where eligibility is established by the institution and/or the entity/agency granting the scholarship if the recipients maintain the UPRRP Undergraduate Catalogue correspondent

requisites. Also, students must maintain the minimum average required (general and major average) as established for each program to graduate. Repetition of courses (applicable to veterans and/or beneficiaries) The Veterans Administration (VA) only approves payment for the repetition of a failing grade ("F"). The VA does not approve payment for repeated courses with passing grades, unless they are repeated in order to comply with the requirements of the program of study.

Office:
Plaza Universitaria, Torre Sur, 2do piso
Phone: (787) 764-0000, ext. 85666
Website: https://www.uprrp.edu/oficina-registrador/oficina-de-veteranos
Email: veteranos.rrp@upr.edu

INSTITUTIONAL POLICY ON SECURITY AT THE UNIVERSITY OF PUERTO RICO

One of the main objectives of the University of Puerto Rico has always been to ensure the safety and well-being of the university community. This policy is intended to promote and maintain a safe study and work environment, free from risks, acts of violence and danger. It is recognized as a legitimate institutional interest, the protection of the life and safety of the members of the internal and external community that makes use of its services and physical facilities and the prevention of the occurrence of criminal acts within its jurisdiction. In addition, the right of students, prospective students, and the community at large to be informed of any criminal act occurring within university grounds and adjacent areas is recognized. The policy and procedures are detailed in Circular Letter 92-01 of the Office of the President of the University of Puerto Rico.

"STUDENT RIGHT TO KNOW ACT"

In December 1995, the U.S. Department of Education issued regulations to implement the Student Right to Know Act (SRKA). This law requires postsecondary institutions participating in Title IV financial aid programs to collect, publish, and disseminate information regarding graduation and transfer rates. The Office of Academic Affairs of the Central Government, in conjunction with the institutional units, will promulgate appropriate procedures for disseminating information through various means, such as: brochures, catalogs, and literature on admissions.

POLICY ON UNAUTHORIZED REPRODUCTION OF WORKS PROTECTED BY LAW

The Institutional Policy approved in 1993 and expressed in Circular Letter No. 95-01 of the Office of the President of the University of Puerto Rico, guides the university community on applying the copyright laws. The Federal Copyright Law protects the authorship rights of all types of work perpetuated through any tangible means of expression. This protection extends to literary, musical, dramatic, pantomimic, graphic, filmic, architectural, and computer programs and other electronic media.

Among the copyrights recognized and subject to protection under the Federal Copyright Law is the exclusive right of the owner of a protected work to reproduce it.

The law permits the reproduction of a protected work without the consent of its author, provided that and when it is for fair and reasonable use. A reasonable use of protected works is that which is made for educational or research purposes, non-profit, for critical purposes, for commentary on a text, and in news reports.

INSTITUTIONAL POLICY ON PATENTS AND INVENTIONS

The institutional policy is to conduct academic work in an open and free atmosphere and to ensure that it reaches public dissemination. However, the University acknowledges that patentable inventions can and do result from research conducted by its employees, students, and other affiliates in the course of their work and/or while using University funds and facilities. Establishing the property, patent, licensing, and protection rights of these inventions is consistent with the University's purposes and mission.

The University of Puerto Rico intends to protect and encourage the application of patentable inventions in accordance with the laws of the Commonwealth of Puerto Rico and the intent of the United States Patent Act (Title 35, United States Code), as amended, with respect to inventions made under the auspices of the U.S. Government.

THE USE OF VERTEBRATE ANIMALS IN SCIENTIFIC RESEARCH

This Institution complies with all applicable provisions of the Animal Welfare Act and other federal statutes and regulations relating to animals. It also complies with the policy on the humane care and use of laboratory animals by institutions that award the Public Health Service. Its practices are governed by the U.S. Government's Principles for the Use and Care of Vertebrate Animals Used in Testing, Scientific Research, and Training.

THE PROTECTION OF HUMAN SUBJECTS IN SCIENTIFIC RESEARCH

This Institution complies with all federal regulations regarding human subjects in scientific research, including those expressed in the Code of Federal Regulations, Department of Health and Human Resources.

In addition to this, the University has developed a Policy on Institutional Research which is detailed in Certification No. 108 (1998-99) of the Board of Trustees.

INSTITUTIONAL POLICY ON SMOKING

Smoking is prohibited in all enclosed areas of the Campus, including, but not limited to, classrooms, laboratories, conference rooms, elevators, auditoriums, offices, museums, and other places where groups of people regularly gather. Smoking is permitted in designated areas approved as suitable for both non-smokers and smokers, such as hallways and other open spaces.

INSTITUTIONAL POLICY ON CONTROLLED SUBSTANCES

The University of Puerto Rico pursues a vigorous policy in combating the manufacture, distribution, supply, possession, and illegal use of controlled substances within its grounds as defined by Puerto Rico Law No. 40 of August 3, 1993, and further treated in subsequent Federal and Commonwealth legislation. The policy means and procedures for its enforcement are detailed in the Certification #033-1999-2000 approved by the Governing Board of the University of Puerto Rico.

Institutional Policy on Sexual Harassment

This institution adheres to the principles and statutes concerning sexual harassment and

discrimination because of gender in the areas of employment, conduct in the workplace, and provision of services. Grievance procedures are stated in the Certification #107 (2021-2022) approved by the Governing Board of the University of Puerto Rico on March 15, 2022, and the Administrative Board Certification #93-94- 303 [as amended by Certification 93-94-324] of April 7, 1994.

Academic Integrity Policy of The University of Puerto Rico, Río Piedras Campus - Certification #66 2023-2024 Academic Senate

The University of Puerto Rico promotes the highest standards of academic and scientific integrity. The Río Piedras Campus of the University of Puerto Rico (UPRRP) is committed to maintaining and promoting an intellectual and ethical environment based on the principles of academic integrity and rigor, trust, mutual respect, and serene dialogue among the people of the university community essential to the achievement of its mission. Integrity implies the firm adherence to a set of core ethical values, such as honesty, respect, and responsibility. It is part not only of teaching and learning, but also of the relationships and interactions inherent to the educational, research and administrative process. It must permeate all areas of university life and community. It focuses mainly on the student environment in the teaching and learning process and research. Academic integrity concerns all members of the university community: students, teaching and non-teaching staff.

Institutional Policy on the Identification and Management of Conflicts of Interest in Research

President Circular Letter 96-03 1995-1996

The National Science Foundation (NSF) and the National Institutes of Health (NIH) have established as a requirement for institutions receiving funding from these agencies to develop an institutional policy that provides for the identification and management of conflicts of interest.

Each institution obtaining funds from these agencies must establish a policy and procedures for identifying conflict of interest situations, notifying authorities of instances in which they occur, and applying sanctions to individuals who violate this policy.

Regulations Related to the Population of Persons with Disabilities

Regulations for the Fulfillment of the Responsibilities of the University of Puerto Rico according to the Law of Comprehensive Services for Persons with Disabilities and the Bill of Rights of Persons with Disabilities. Certification #16 1997-1998 Board of Trustees and Law 238 of August 31, 2004.

It clearly establishes the responsibilities and functions of the University in its mission of searching for and disseminating knowledge and training of personnel to guarantee the optimal quality of life of infants, children and young people who have some condition of disability.

Policy on Reasonable Modifications and Academic Services for Students with Disabilities Enrolled at the University of Puerto Rico,

Certification No. 133 2015-2016 of Governing Board of the University of Puerto Rico.

The purpose of this Policy is to establish uniform practices throughout the UPR System regarding the coordination of reasonable accommodations and academic services requested by

students with disabilities, as well as to ensure faithful compliance with state laws federal governments that apply to this population.

Institutional Policy on Environmental Protection

8 February 1996 GB

The University of Puerto Rico has recognized and assumed its responsibility to carry out affirmative actions that promote the protection of the environment. Through the Division of Environmental Quality and Occupational Safety of the Central Administration and its counterparts in the university units, we have begun to effectively implement Puerto Rico's Environmental Public Policy. To protect life and reduce property damage and the environment, the University of Puerto Rico will operationally implement a comprehensive disaster protection plan. This will include the development of mitigation strategies and preparedness, response and recovery plans against earthquakes, hurricanes, floods, fires and other natural and technological hazards that may affect us.

Research & Planning

The University has developed a Policy on Institutional Research through Board of Trustees Certification 108 (1998-99). It seeks to establish a rational base of information and knowledge for planning processes, decision-making, and the allocation of resources, at the service of the academic and administrative managers of the University of Puerto Rico System. The Río Piedras Campus, motivated by the need to know the levels of execution in the various administrative and academic efforts leading to informed decision-making and to comply with the institutional mandate and the requirements of the accrediting agency, among others, has created the Division of Institutional Research and Appraisal attached to the Dean's Office of Academic Affairs to manage, receive, analyze, disclose and safeguard official data.

Information Technology Resources Access and Use Policy of the University of Puerto Rico

The Information Technology Resources Access and Use Policy of the University of Puerto Rico, adopted through Governing Board Certification No. 85 (2022–2023), establishes the standards and guidelines governing the use of and access to the University's information technology resources. Its purpose is to promote a secure, ethical, and efficient environment that supports teaching, research, knowledge creation, and university services.

The policy defines the responsibilities of both users and the institutional units responsible for administering and protecting information systems. It applies to the entire University community, including students, faculty, staff, researchers, contractors, consultants, vendors, and other individuals who access institutional technological resources.

Its scope encompasses electronic devices, networks, software applications, data, information systems, and digital communication resources used throughout the University.

Distance Education Policy of the University of Puerto Rico

The Distance Education Policy of the University of Puerto Rico, approved through Governing Board Certification No. 107 (2025–2026), establishes the institutional framework for the development, approval, implementation, administration, and evaluation of degree-granting academic programs and courses offered through distance education modalities.

The policy is designed to strengthen and expand access to high-quality higher education for local and international students through the effective use of educational technologies, interinstitutional collaboration, and the adoption of sound academic and administrative practices.

It recognizes distance education as an important strategy for expanding learning opportunities, increasing access to innovative digital content, and providing flexible educational experiences without geographic, physical, social, economic, or temporal barriers. The policy also reaffirms the University's commitment to compliance with applicable academic, regulatory, accreditation, accessibility, and legal standards.

The policy defines and regulates multiple instructional modalities, including:

- Online courses
- Hybrid courses
- Multimodal courses
- Synchronous and asynchronous distance education formats

It further establishes that distance education courses must maintain the same academic rigor, quality, learning outcomes, and credit value as their face-to-face counterparts.

The policy establishes requirements related to:

- Instructional design and course development
- Regular and substantive interaction between faculty and students
- Digital accessibility and Universal Design for Learning (UDL)
- Faculty training and certification for online teaching
- Student support services
- Learning management systems (LMS)
- Student identity verification
- Intellectual property protection
- Assessment and continuous improvement of online programs and courses

The policy also requires each campus and institutional unit to maintain an organizational structure dedicated to supporting distance education and to provide students enrolled in online programs with support services equivalent to those available to on-campus students

Distance Education Policy of the Río Piedras Campus

The Distance Education Policy of the Río Piedras Campus, approved through Academic Senate Certification No. 50 (2025–2026), establishes the institutional framework for the development, delivery, evaluation, and continuous improvement of academic programs and courses offered through distance learning modalities.

The policy reaffirms the Campus's commitment to academic excellence, educational innovation, accessibility, equity, and compliance with accreditation standards and applicable higher education regulations.

Distance education is recognized as a modality that expands access to higher education, promotes flexible learning opportunities, and strengthens the international reach of the Campus's academic offerings through the strategic use of educational technologies. The policy supports the development of online, hybrid, and multimodal courses and programs while ensuring academic equivalency with face-to-face instruction.

Its principal objectives include:

- Strengthening technological infrastructure and support services
- Expanding distance education academic offerings
- Promoting ongoing faculty professional development

- Ensuring accessible and inclusive educational experiences
- Supporting systematic evaluation of the quality and effectiveness of courses and programs

The policy establishes responsibilities for administrators, faculty members, and students and provides an institutional support structure led by the Office of Academic Affairs, the Dean of Graduate Studies and Research, and the Distance Education Unit.

In addition, it establishes standards related to:

- Authentication and identity verification
- Privacy and data protection
- Digital accessibility
- Intellectual property
- Academic integrity
- Assessment of student learning

The policy serves as a roadmap for the sustainable growth of distance education at the Río Piedras Campus and reinforces its mission of providing innovative, accessible, and high-quality educational experiences for local and international students.

Policy on the Use of Artificial Intelligence at the University of Puerto Rico

The University of Puerto Rico Policy on Artificial Intelligence, approved through Governing Board Certification No. 66 (2024–2025), promotes the responsible, ethical, secure, and transparent use of artificial intelligence (AI) in academic, administrative, and research activities.

The policy recognizes the transformative potential of AI to enhance teaching, learning, research, and institutional management while establishing safeguards for privacy, data security, intellectual property, and the rights of members of the University community.

The policy applies to all users of University technological resources, including:

- Students
- Faculty
- Administrative staff
- Researchers
- Contractors
- Visitors

Its guiding principles include:

- Transparency
- Accountability
- Data protection
- Respect for human rights
- Non-discrimination
- Academic integrity
- Intellectual property compliance

Within academic settings, AI tools may be used to support teaching and learning when their use is aligned with ethical and pedagogical principles. Students may use AI tools when permission is granted by the instructor, while unauthorized use during assessments constitutes a violation of academic integrity standards. The policy further requires that course syllabi clearly define expectations and limitations regarding AI use.

The University also encourages research involving AI and its applications across disciplines while requiring compliance with ethical, legal, and data protection standards. Institutional mechanisms are established to evaluate, approve, and oversee the official use of AI

systems to ensure security, confidentiality, and responsible implementation.

Guidelines for the Integration and Use of Artificial Intelligence in Academic and Research Projects at the Río Piedras Campus

Academic Affairs Circular No. 8 (2024–2025) provides guidelines and recommendations for the ethical and responsible integration of artificial intelligence into teaching, learning, and research activities at the Río Piedras Campus.

The document recognizes the importance of aligning AI use with institutional values while promoting critical thinking, innovation, and educational practices that address the needs of twenty-first-century learners.

The Circular aims to:

Establish general guidelines for integrating AI into teaching, learning, and research processes.

Provide guidance on maintaining academic integrity standards in all contexts where knowledge is generated.

Require that every course syllabus include a statement describing the permitted level of AI use.

Require that assignment and assessment instructions clearly specify whether AI tools may be used and the conditions under which such use is permitted.

These guidelines support the Campus's commitment to educational excellence, innovation, and responsible technology adoption.

Undergraduate Student Attendance Policy of the Río Piedras Campus

The Río Piedras Campus recognizes the strong relationship between class attendance, academic achievement, and degree completion. Regular and punctual attendance is considered an essential responsibility of every student enrolled in a course.

Attendance expectations, requirements, and procedures are discussed at the beginning of each course and documented in the syllabus. Students are responsible for notifying instructors as early as possible when they must be absent and for coordinating any necessary arrangements related to missed coursework.

Excused Absences

Students may receive excused absences for extracurricular activities when they are officially recommended by the appropriate academic authorities and represent the University in activities that enhance its reputation.

Eligible students include those who:

- Participate in University athletic teams
- Represent Puerto Rico in national sports teams
- Participate in officially recognized music, theater, or cultural organizations
- Represent the Campus in academic competitions or institutional events
- Participate in institutional research programs
- Hold officially recognized student leadership positions
- Receive special designation by the Chancellor for institutional purposes

Extraordinary Excused Absences

Students may also qualify for extraordinary excused absences under the following

circumstances:

1. Military orders or service obligations
2. Hospitalization or medical appointments
3. Court appearances or jury duty
4. Documented illness
5. Death of an immediate family member
6. Matters involving the Department of Family Services
7. Title IX-related situations, including gender-based violence, sexual harassment, or protective orders
8. Pregnancy-related circumstances

If a disagreement arises between a student and a faculty member regarding an excused absence, the student may seek assistance from the department chair or dean and subsequently pursue remedies under the University's administrative appeals procedures.

Authorized Extended Absences

The **Institutional Policy for the Authorization of Extended Student Absences (CJG 94, 2022–2023)** allows students to temporarily withdraw from their studies under certain circumstances, including:

- Personal health conditions
- Serious health situations affecting immediate family members
- National emergencies
- Other extraordinary circumstances

Requests for extended absences are processed through the Office of the Registrar of the corresponding campus or unit, using the official application procedures established by the institution.

Protocol for Processing Academic Excuses due to Extracurricular Activities

Participation in extracurricular, sports, academic, artistic and cultural events fulfills the purpose of offering students enriching experiences that allow them to use their talents in favor of their development as human beings. Certification No. 136 (2002-2003) of the Academic Senate established the Protocol for processing academic excuses to eligible students duly recommended by the Faculty Deans, School Directors, and Directors of Special Programs, who, in the exercise of their academic, athletic, artistic and cultural skills, exalt the name of the university. The Academic Excuses Processing Sheet forms will be available at the Faculty Dean's Offices, the Dean's Office of Students, or the corresponding Academic Departments or Programs.

GENERAL ACADEMIC SERVICES

Library System

The Río Piedras Campus Library System is a unit attached to the Office of the Dean of Academic Affairs. It consists of a network of libraries and collections located in the José M. Lázaro Building and in some of the faculties and schools. It contributes to the management of learning, teaching, research, innovation, creative work and service that the Campus has as its mission. In addition, it extends its services to the community at large, thus fulfilling its social responsibility.

Its libraries and collections have information resources in various areas of knowledge and its development takes into consideration the criteria of quality, depth, scope, timeliness and diversity of formats as established in the standards of the Association of College and Research Libraries. Among the vast collection of information resources are the special collections of distinguished Puerto Rican and international personalities housed in the Puerto Rican Library and Newspaper Library, the El Mundo/Puerto Rican Digital Library Project, and the Zenobia and Juan Ramón Jiménez Room. In addition, it has thematic collections specialized in areas of the undergraduate and graduate curriculum.

The Library System has a Library Services Unit for Persons with Disabilities. It has specialized equipment such as tape players, digital players, talking calculators and video communication system for deaf people, among others. It subscribes to the National Library Service for the Blind and Physically Handicapped of the Library of Congress in Washington, D.C. through its liaison in Puerto Rico (Regional Library for the Blind and Physically Handicapped of Puerto Rico). They provide access to information resources, alternative formats, and specialized equipment.

It articulates services and programs where it integrates information and communication technologies that promote efficient and effective access to up-to-date information resources relevant to the curriculum and research. It actively encourages the development of information skills and competencies and promotes continuous learning and the formation of an individual capable of generating new knowledge. The services offered include: face-to-face and virtual information and reference consultations, access to the online catalogue of information resources, access to databases and electronic journals, educational activities through the program for the integration of information skills into the curriculum, loan of information resources, local and international interlibrary loans, information resources assigned in courses, computer centers, group study rooms, film library, conferences and exhibitions, and reproduction services. Through its website, you can access databases in all disciplines and thousands of full-text journals. Remote access is offered to students and employees active on campus by completing a brief identification process. Their website is complemented and updated with a blog and social media to promote communication and keep their users informed.

Contact the Library System staff at https://www.upr.edu/biblioteca- rrp/directory-sb

Division of Academic and Administrative Technologies

The Division of Academic and Administrative Technologies (DTAA) provides members of the university community with technological support services and technical assistance in their daily work. It is responsible for administering and ensuring the proper functioning of the administrative information systems that reside on the Campus. It is also responsible for implementing measures that advance the technological initiatives proposed in the strategic plans at the systemic and campus level and the academic and administrative plan of the Rector. In the area of services to the university community, its mission is to:

Provide the university community with a platform of technological services to support the academic, administrative and student sectors.

Introduce the user to the different changes in technology and its application in various work areas within the Río Piedras Campus.

Disseminate the processes for technical support and help the user to solve problems caused by technological equipment related to the daily functions carried out by the university community

The Institutional Policy on the Use and Access of Information Technology Resources at the University of Puerto Rico is set forth in Governing Board Certification No. 85 (2022-2023), available at the following link: Certification No. 85 (2022-2023).

Student Advocate Office

The Student Advocate Office (Student Advocate Office Website) was established through Governing Board Certification No. 119 (2014–2015) (Certification No. 119 (2014–2015)). The certification establishes, among other provisions, the principles governing the delivery of student advocacy services and defines the functions and responsibilities of the Student Advocate throughout the University of Puerto Rico System.

The Student Advocate Office of the Río Piedras Campus, which reports directly to the Office of the Chancellor and was the first office of its kind within Puerto Rico's public university system, works to facilitate the resolution of situations that may affect students' academic performance, progress, and development.

One of its primary functions is to provide an efficient and informal mechanism that complements established institutional procedures in addressing conflicts between students and other members of the university community.

Steps for the Effective Resolution of Conflicts Between Students and Members of the University Community

- Any member of the University community, including students, faculty, and staff, who is involved in a conflict affecting students may seek assistance from the Student Advocate Office, located on the second floor of the Student Center. The Student Advocate may serve as a mediator, neutral advisor, or intermediary, as appropriate, within the framework of student rights and responsibilities established by University regulations.
- Visitors are assisted by the Student Advocate or the Advocate's Assistant upon arrival. Each matter is evaluated, and depending on whether the issue is academic, interpersonal, financial, administrative, or safety-related, an appropriate course of action is determined.
- Although appointments are recommended, the Office also welcomes walk-in visits. Walk-in cases are generally addressed immediately, and only under exceptional circumstances is a future appointment scheduled.
- Depending on the circumstances presented, visitors receive guidance regarding applicable

laws, regulations, institutional policies, and established procedures. When intervention or mediation is appropriate and requested, the student's consent is obtained before communication is initiated with the parties involved.

- Information provided by students is documented exclusively for internal use. These records are maintained directly by the Student Advocate or Assistant and are destroyed once the matter has been resolved. Notes are used solely to facilitate guidance and intervention and are subject to strict confidentiality. Confidentiality is maintained except in situations involving an **imminent risk of serious harm**, consistent with the standards of practice of the International Ombuds Association (IOA).
- When intervention is necessary, and after the student has received guidance and either exhausted available options or determined that assistance is needed, the Office works collaboratively with the relevant institutional units to develop solutions and facilitate communication among all parties. These efforts are guided by principles of dialogue, fairness, confidentiality, respect, and effective communication.
- When formal procedures exist, the Office helps ensure that these processes are followed and provides guidance regarding the rights and responsibilities of all parties involved. For example, Academic Senate Certification No. 14 (1984–1985) provides that a grade review request must be initiated no later than the semester following the one in which the course was completed. While such procedures are administered independently of the Student Advocate Office, the Office provides information and guidance regarding the applicable process and student rights.

Examples of Matters Commonly Addressed by the Student Advocate Office

Academic Matters

- Classroom-related concerns
- Grade reviews
- Grade changes
- Transfer credit evaluations
- Graduation applications
- Comprehensive or graduation examinations
- Academic integrity issues

Financial Matters

- Financial aid concerns
- Student housing issues

Administrative Matters

- Extensions and deadlines
- Refund requests
- Grade-change procedures
- Administrative withdrawals
- Admissions processes

Interpersonal and Safety-Related Matters

- Campus safety complaints
- Protective orders
- Sexual misconduct and sexual assault concerns
- Violence and harassment issues

Other Student-Related Concerns

- Any matter involving students and faculty members, staff, administrators, or other students

Each case is handled individually through the informal processes described above. The Office follows up on every matter and maintains communication with the person seeking assistance until the issue has been satisfactorily addressed or resolved.

Administrative Appeals Procedures

The procedures and forums through which employees of the University of Puerto Rico may appeal administrative decisions are established in Governing Board Certification No. 119 (2021–2022). This certification sets forth the administrative appeals process available to University personnel and outlines the procedures, requirements, and mechanisms for reviewing administrative determinations affecting employees. The policy is intended to ensure due process, fairness, and consistency in the resolution of administrative disputes within the University system.

Academic Regulations

Admission

First-Year Students

Applicants seeking admission as **first-year students** must have graduated from high school or possess an equivalent educational credential. They must hold a diploma from a secondary school accredited by the Department of Education and submit an official transcript of courses completed and grades earned. The transcript must reflect completion of the high school curriculum or its equivalent, as required by the educational system of Puerto Rico.

The University recognizes as equivalent to a high school diploma successful completion of the General Educational Development (GED) Test, administered through the Department of Education's Extension Division, as well as qualifying examinations administered by the Armed Forces.

Applicants are also required to take the College Entrance Examination Board (CEEB) Academic Aptitude Test and the Achievement Tests in Spanish, English, and Mathematics. The Scholastic Aptitude Test (SAT), the English-language equivalent, may be submitted in lieu of the CEEB examination. Admission decisions are based on an admission index, which is calculated using the applicant's high school grade point average and admission test scores.

Exceptional talent or special abilities may also be considered as admission criteria. Each academic unit maintains an advisory committee to the Chancellor that establishes admission standards for applicants seeking consideration under this category. Candidates are admitted in descending order based on their admission index until either the minimum admission index requirement has been reached or available enrollment capacity has been filled, whichever occurs first. Enrollment capacity and minimum admission index requirements are established by the Chancellor in consultation with the appropriate deans.

Admission of new students graduating from high school is subject to the availability of spaces after enrollment needs have been met for continuing students, readmitted students, and transfer students from within the University of Puerto Rico system.

All first-year students who receive notification of admission must secure their place by paying the required enrollment reservation fee when requested by the Campus. This fee is credited toward tuition or special fees upon enrollment; however, it is nonrefundable.

Applications for admission may be submitted for either the first or second semester of the academic year in which admission is sought. Applicants must file their admission application with the Campus Office of Admissions.

In addition, all students enrolling for the first time must submit a medical certification to the Department of Medical Services of the Río Piedras Campus on or before the established deadline.

International First-Year Students

The **Office of Admissions** determines the eligibility of students from other countries seeking admission to the Río Piedras Campus. Applicants must provide evidence of educational preparation equivalent to a Puerto Rican high school education, have earned the corresponding secondary school diploma or credential, and have achieved a minimum grade point average of **2.00**

(C). They must also satisfy the requirement of taking the examinations administered by the **College Entrance Examination Board (CEEB)**.

Applicants must demonstrate proficiency in **Spanish** and possess sufficient knowledge of **English** to successfully pursue university-level studies at the Campus.

International applicants who receive scholarships from recognized organizations or from the government of their country of origin must also comply with all of the admission requirements described above.

Visiting (Transient) Students

Visiting (transient) students are students enrolled at other accredited colleges or universities who apply for admission to the Río Piedras Campus for the first time in order to take courses during a summer session or an academic semester, with the intention of transferring the credits earned back to their home institution rather than continuing their studies at the Campus.

Applicants must:

- Submit the appropriate application for admission.
- Possess a minimum grade point average of 2.00.
- Arrange for an official academic transcript to be sent to the University.
- Submit written authorization from their dean or the appropriate academic authority at their home institution specifying the course or courses recommended for enrollment.

Admission as a visiting student is limited to the specific academic term for which admission is requested. Applications are processed by the Director of Admissions with the approval of the dean of the corresponding faculty.

Applicants seeking admission to undergraduate-level courses who already hold a bachelor's degree or its equivalent from an accredited institution may be considered for admission upon the recommendation of the dean of the faculty in which they intend to enroll.

Enrollment availability for visiting students is subject to space remaining after priority has been given to continuing students, newly admitted students, and readmitted students, in accordance with the enrollment priorities established by the Campus.

Special Programs

Applicants to special programs established to serve the needs of agencies, organizations, or other entities through prior agreement with the Chancellor of the Campus are also considered under the admission regulations governing new students.

In special circumstances, the agency or department requesting the service may petition the Chancellor to waive certain admission requirements for applicants to these programs.

Students admitted to a special program who are exempted only from the admission index requirement may continue their university studies beyond the special program if they:

- Successfully complete 24 credits within the special program to which they are assigned;
- Earn a minimum cumulative grade point average of 2.00; and
- Are formally admitted to an academic faculty or school.

Applicants who already hold a bachelor's degree, or its equivalent, from an accredited institution of higher education may be considered for admission upon the recommendation of the dean of the faculty in which they wish to enroll.

In all cases, the Registrar's Office must be notified of such actions with sufficient advance notice.

Special Admission

Special admission may be granted in cases that warrant individualized consideration after review by a **Special Admissions Committee**, composed of:

- The Director of the Office of Admissions
- A representative from the Office of Academic Affairs
- The Registrar
- The dean of the faculty concerned with the case, or the dean's representative
- A student senator selected by the Student Senators' Caucus

Based on the applicant's academic background, the Committee determines the student's academic placement and the sequence in which General Education requirements must be completed.

Special admission may be considered for applicants in the following circumstances:

1. **Applicants with an admission index above 3.0 who do not meet the specific credit or course requirements of a faculty or academic unit.**
2. **Applicants coming from institutions that do not offer General Education courses or their equivalent**, or from programs in which such courses were not required.
3. **Applicants who meet all admission requirements and come from countries where the Aptitude and Achievement Tests required for admission to the Campus are not available**, provided it is impossible for the applicant to take the examinations in the country of origin.
4. **Applicants with physical or mental disabilities**, for the purpose of determining the most appropriate means of supporting their academic development in a manner consistent with the mission and objectives of the institution.
5. **Other cases requiring special consideration** that are comparable in nature to those described above.

Transfer Students

Transfer students are defined as active or inactive undergraduate students enrolled in another unit of the **University of Puerto Rico System** who apply for transfer to the **Río Piedras Campus**.

Board of Trustees Certification No. 115 (1996–1997) established the framework for a transfer policy applicable to bachelor's degree programs. The policy becomes effective once the corresponding academic programs and University authorities approve the implementing regulations.

Transfer applications must be processed through the registrars of the institutional units within the University of Puerto Rico System during the dates established in the academic calendar. Applications submitted directly by students will not be considered.

The registrars of the University's institutional units forward transfer applications, together with the required supporting documentation, to the Registrar of the Río Piedras Campus on or before the established deadline. The Campus Registrar then transmits the applications to the appropriate faculty deans within the prescribed review period.

The deans of the corresponding faculties evaluate the transfer requests and communicate their decisions to the Office of the Registrar.

The Registrar subsequently notifies both the registrars of the originating institutions and

the applicants of the decisions rendered by the respective deans.

Admission of transfer students from other units of the University of Puerto Rico System is subject to available enrollment capacity after accommodations have been made for:

- Active students of the Río Piedras Campus; and
- Inactive Río Piedras students who have not been suspended and who have been approved for readmission to the faculty in which they were originally enrolled.

Accordingly, transfer admissions are contingent upon the availability of space remaining after these enrollment priorities have been met.

A student suspended from a unit of the **University of Puerto Rico System** as a result of **administrative determinations or pending disciplinary proceedings** shall not be admitted to any institutional unit while the suspension remains in effect or until a final decision has been rendered in the administrative or disciplinary matter.

Selection of Candidates

1. **Selection of candidates** shall be made in descending order based on academic index, in accordance with the established deadlines and enrollment capacity requirements of each faculty or school.
2. Students from other units of the University of Puerto Rico System shall be eligible for transfer admission to the **Río Piedras Campus** if they have completed a minimum of **48 credits**, including at least **four General Education core courses**. Applicants must also satisfy the Río Piedras Campus retention index requirement in effect for the year of application, as well as any additional requirements established by the faculty or school to which they are applying.
3. This requirement shall apply in all cases except for students seeking admission to programs in **Family Ecology** (currently under moratorium), **Business Education**, **Industrial Arts**, **Industrial Vocational Education**, **Elementary Education**, **Recreation (Education)**, **Environmental Design (Architecture)**, and **Communication**. For these programs, applicants are required to have completed only **30 credits**, including four General Education core courses, and to meet the minimum retention index established by the Río Piedras Campus, together with all additional requirements of the faculty or school of interest.

   Exceptions to the minimum retention index include:

   - **Elementary Education** (Kindergarten-Third Grade and Fourth-Sixth Grade): minimum GPA of **2.50**
   - **Nutrition and Dietetics**: minimum GPA of **2.50**
   - **Teaching English to Spanish Speakers**: minimum GPA of **2.30**

   This exception also applies to students seeking admission to the **Bachelor's Degree in Office Systems Administration**, for which only the basic English and Spanish courses are required within the 30-credit minimum, together with a minimum GPA of **2.50**.

Pre-Registration for Accepted Transfer Students

The pre-registration process for transfer students admitted to the Río Piedras Campus shall be conducted concurrently with and under the same conditions as the pre-registration process for continuing Río Piedras Campus students seeking enrollment.

Applicants who were originally admitted to the **Río Piedras Campus** but chose to enroll at institutions outside the **University of Puerto Rico System** may subsequently be admitted to the Campus only as **transfer students**. Likewise, students who have pursued studies at accredited colleges or universities outside the University of Puerto Rico System and wish to enroll at the Río

Piedras Campus shall be considered under the transfer admission regulations.

All transfer applicants must submit an application for admission to the Office of Admissions and arrange for **two official copies of their academic transcripts** to be sent directly from the institution previously attended to the Director of Admissions at the Río Piedras Campus. Transcripts submitted through the student will not be considered official.

Transfer Students

Applicants must also provide any additional documentation required by the Office of Admissions. The Office will determine the applicant's eligibility for admission and subsequently refer eligible applications to the appropriate faculty dean. The dean of the corresponding faculty will conduct a preliminary academic evaluation of transfer credits, taking into consideration available enrollment capacity, the applicant's academic record, and the courses the applicant intends to pursue.

Applicants who were originally admitted to the Río Piedras Campus as first-year students but subsequently enrolled at another university and later seek admission to the Campus will be considered under the conditions governing **readmission**.

Selection of Candidates

1. Applicants shall be eligible for admission if, at the time of application, they have successfully completed a minimum of **30 semester credits** and have maintained a cumulative grade point average of at least **2.50** (or its equivalent) prior to enrollment at the Río Piedras Campus.

In computing the cumulative grade point average, courses in which the applicant earned grades of **D** or **F** will be included. Courses completed with a grade of **D** may be counted toward the minimum credit requirement for transfer admission; however, courses with grades of **D** or **F** are not eligible for transfer credit.

Applicants must have earned a grade of **C** or better in any course specifically required for admission by the faculty or department to which they are applying.

First-year General Education courses are understood to include:

- Biological Sciences
- Physical Sciences
- Social Sciences
- Spanish
- Humanities
- English

The **Faculty of General Studies** determines the equivalencies of these courses. Applicants must also have completed any additional prerequisite courses required by the faculty or school of interest.

This requirement applies in all cases except for students seeking admission to programs in **Home Economics** and **Business Education**. For these programs, applicants are required to have completed 30 credits with a minimum cumulative GPA of **2.00**, except in:

- **Elementary Education (Kindergarten-Third Grade and Fourth-Sixth Grade)**, which requires a minimum GPA of **2.50**
- **Nutrition and Dietetics**, which requires a minimum GPA of **2.50**

This exception also applies to students seeking admission to the **Bachelor's Degree in Office Systems Administration**, for which only the basic English and Spanish courses are required within the 30-credit minimum, together with a minimum cumulative GPA of **3.25**.

2. Applications from candidates who do not satisfy the foregoing requirements will be denied by the Office of Admissions. However, if additional spaces become available in the requested faculty during the preregistration process, the Office of Admissions will first admit otherwise eligible applicants who were denied solely because of enrollment limitations. Subsequently, applicants who complete the required admission criteria before the beginning of the corresponding academic session may also be admitted.

Transfer Credits

The **Río Piedras Campus** reserves the right to determine the number of credits that may be accepted in transfer.

Transfer credit evaluations are completed after the student has successfully earned at least **12 credits** at the Río Piedras Campus.

For undergraduate programs, only courses completed with a grade of **C (2.00)** or higher are eligible for transfer credit.

No more than **one-half of the credits required in the student's major field of study** may be satisfied through transferred coursework.

Students seeking a bachelor's degree from the Río Piedras Campus must complete at least **36 of their final 48 credits** at the Campus.

In exceptional circumstances, this requirement may be waived upon the recommendation of a committee composed of:

- The dean of the corresponding faculty,
- The Dean of Academic Affairs, and
- The Registrar.

Readmission

Readmission students are former students of the Río Piedras Campus, as well as individuals who have earned a degree within the University of Puerto Rico system, who are inactive at the time of application and wish to resume their studies at the Río Piedras Campus.

Applications for readmission must be submitted to the **Office of the Registrar**, which determines the applicant's eligibility and forwards the application to the appropriate dean.

Readmission is subject to approval by the corresponding dean, who considers the enrollment capacity established for the faculty or school, as well as the applicant's academic qualifications, after enrollment needs have been met for continuing students of the Campus.

Applicants seeking readmission who have interrupted their studies for **two or more consecutive academic terms**, or who have been away from the Campus due to physical and/or mental health reasons, must submit the health certification required by the Campus Department of Medical Services along with their readmission application.

The Registrar is responsible for notifying applicants of the decisions made by the appropriate dean or program director.

Applicants must pay the required **nonrefundable application fee** no later than the deadline established in the Campus academic calendar.

Selection of Candidates

The selection of candidates for readmission is governed by the following provisions:

1. **First-year students** who interrupted their studies before completing their first semester must satisfy the admission requirements in effect during the year in which they apply for readmission. Once the Office of Admissions determines their eligibility, the Registrar will proceed with the appropriate processing.
2. First-year students who fail to enroll in their second semester after completing their first semester, or who withdraw before completing that semester, must meet the minimum academic index

required of first-year students at the end of the academic year. If they do not satisfy this requirement but are granted readmission, their readmission will be granted on a **probationary basis for one semester**.

3. Students who successfully complete their first year of study, as well as second-year and advanced students who voluntarily interrupt their studies, may apply for readmission for any academic term, subject to established deadlines, enrollment limits, and available space within the faculty or school to which they seek readmission. Applicants must also satisfy the minimum academic index required for their academic level or academic unit.
4. Applicants who previously pursued studies under a **special program** established to serve the needs of agencies or organizations pursuant to an agreement with the Chancellor shall be eligible for readmission provided they satisfy the admission requirements that were in effect at the time of their original admission to the program.
5. Students from other accredited institutions who were previously admitted as **visiting (transient) students** may apply for readmission for any academic term if, at the time of application, they meet the transfer admission requirements. The decision regarding readmission will be made by the dean of the corresponding faculty or school.

Suspensions and the Student Disciplinary Board

Students of the Río Piedras Campus who have been suspended for academic deficiency may apply for readmission to any faculty after a minimum period of one year has elapsed from the date of suspension.

The dean of the corresponding faculty will determine whether readmission should be granted. Any readmission approved under these circumstances will be granted on a probationary basis. The faculty, in collaboration with the Dean of Students, is responsible for providing the student with general advising and support services during the probationary period.

If a student is suspended a second time for academic deficiency, the student must wait a minimum of five (5) years before becoming eligible for readmission.

Academic work completed during the suspension period will not be recognized for academic credit by the Río Piedras Campus.

Students suspended for academic deficiency from another unit of the University of Puerto Rico System who seek readmission-transfer to another institution within the System shall be governed by the following regulations:

1. After one year has elapsed from the date of suspension, the student will be considered to have fulfilled the suspension period imposed by the institution of origin for purposes of applying for readmission-transfer.
2. A suspended student wishing to submit a readmission-transfer application may do so only after obtaining written certification from the institution to which the student seeks transfer, indicating that the institution is willing to receive and evaluate the application. This certification must be included as part of the readmission-transfer application.
3. Readmission-transfer requests must be based on circumstances such as a change in academic or career interests, relocation, family responsibilities, or other commitments that prevent the student from returning to the institution of origin.
4. No institutional unit may admit a suspended student through the readmission-transfer process if admission has been denied to academically better-qualified students due to enrollment limitations.
5. Students suspended for disciplinary reasons may apply for readmission for the academic

term immediately following the completion of the suspension period. Readmission will not be granted if the student has incurred additional violations of institutional regulations during the period of inactivity. The dean of the corresponding faculty, upon recommendation of the Dean of Students, will make the final determination regarding readmission. Coursework completed at other institutions during the suspension period will not be accepted for academic credit.

6. Students suspended by any institution of higher education as a result of administrative actions or who are currently subject to pending disciplinary proceedings shall not be admitted to any unit of the University of Puerto Rico System while the suspension remains in effect or until a final determination has been made regarding the administrative or disciplinary matter.

Other General Regulations

1. Any applicant who provides false information in order to gain admission to the Río Piedras Campus shall be automatically disqualified from admission for a period of one year.
2. Any student who, after being admitted, is found to have provided false information in order to secure admission shall be considered to have committed a serious violation subject to disciplinary sanctions, including cancellation of enrollment and forfeiture of earned academic credits. Such cases shall be handled in accordance with the University's regulations governing disciplinary sanctions for students.
3. Any student suspended from an institution of higher education because of administrative and/or academic determinations, or who is currently the subject of disciplinary proceedings, shall not be admitted to any unit of the University of Puerto Rico System while the suspension remains in effect or until a final determination has been rendered in the case.

Medical Qualifications

Newly admitted students, transfer applicants, and candidates for readmission must submit a medical certification from a Public Health Unit (or its equivalent) or from a private physician to the Department of Medical Services before registering for classes, as required on the forms provided by the Campus Department of Medical Services.

Students who have been away from the Campus due to physical or mental health reasons and who apply for readmission must provide documentation demonstrating that the condition has been resolved and submit it to the Department of Medical Services. The Department will then determine whether the applicant is medically eligible for readmission and will forward its recommendation to the faculty or school to which the student seeks admission.

A University employee who is authorized to pursue studies at the University of Puerto Rico under the applicable regulations shall not be required to undergo a medical examination as a condition for enrollment in such studies.

Supervision of Research Projects and Theses

Faculty members responsible for supervising students engaged in research projects and thesis work are expected to fulfill this responsibility by providing appropriate guidance, support, and attention to students conducting such academic activities.

In cases where a faculty member incorporates into their own publications or conference presentations research findings or results produced by students, the students shall receive

appropriate and explicit acknowledgment for their contributions.

Approval of Courses Through Nontraditional Methods

The Río Piedras Campus has established mechanisms that allow students to earn academic credit through means other than traditional university instruction, thereby expanding educational opportunities. These provisions are outlined below:

A. Credit for College Entrance Examination Board (CEEB) Advanced Level Examinations

High school students who successfully complete **College Entrance Examination Board (CEEB) Advanced Level Examinations** in Spanish, English, and Mathematics may receive university credit through equivalency with the corresponding university courses.

Each academic department offering the equivalent course is responsible for determining the minimum qualifying score (currently 3.0) and submitting it for approval to the Office of Academic Affairs. Once approved, the score remains in effect for the admissions process beginning in the following academic year.

B. Credit for University-Level Courses Completed Prior to Enrollment

Before entering the University of Puerto Rico System, or during the summer preceding enrollment, students may take courses at an accredited or recognized institution. If successfully completed, these courses may be considered for university credit, subject to authorization by the department offering the equivalent course.

Credits are recorded on the student's academic transcript after the student successfully completes one semester in residence at the Río Piedras Campus. The awarding of credit is subject to the academic requirements established by the relevant faculty or academic program.

The corresponding credit hours will be recorded as follows:

- A grade of **A** is automatically recorded as earned.
- For a grade of **B**, the student may choose to have either the letter grade **B** or a **P (Pass)** recorded.
- For a grade of **C**, the course will be recorded as **P (Pass)**.

C. Credit Earned Through Departmental Challenge Examinations

(Applicable to undergraduate and graduate students)

Active and inactive students of the Campus may request permission from academic departments to earn credit through **challenge examinations** in subject areas determined by the department to be appropriate for this form of assessment.

Departments are responsible for establishing and publishing a list of courses, if any, that may be completed through challenge examinations.

Academic credit will be awarded only for courses in which the student earns a minimum grade equivalent to **B (3.0 on a 4.0 scale)**.

D. Credit and Exemption for General Studies Spanish and English Courses

Students who complete **INGL 3011-3012** and **ESPA 3111-3112** in the Faculty of General Studies with grades of **A** or **B** are exempt from the requirement to complete a second year of language study in the Faculty of Humanities.

Students who would normally be required to complete a second year of English or Spanish and who earn grades of **A** or **B** in the corresponding honors courses in the Faculty of General Studies shall be exempt from the second-year language requirement.

This exemption applies only to academic programs whose second-year language requirement consists of:

- ESPA 3201-3202
- INGL 3031-3032
- INGL 3041-3042
- INGL 3051-3052

E. English Language Requirement for International Students

International students placed through diagnostic examinations into INGL 3091-3092, INGL 3093, or INGL 3094 who complete those courses with grades no lower than B will satisfy the English language requirement (12 credits) established for bachelor's degree programs at the Río Piedras Campus.

These courses are accepted as equivalent to the English-language requirement represented by:

- INGL 3101-3102
- INGL 3031-3032
- INGL 3041-3042
- INGL 3051-3052

Limit on Credits Awarded

In individual cases, no more than one-fourth (25%) of the credits required for an undergraduate or graduate degree program may be earned through challenge examinations or other nontraditional methods.

This same limitation applies to credits within the student's selected major.

Nontraditional Undergraduate Student Admission for Personal or Professional Development

Academic Senate Certification No. 26 (2018–2019)

Applicants may be admitted under this category if they meet either of the following criteria:

- Possess a high school diploma and a minimum of three years of professional work experience, or
- Have completed at least one year of prior university studies with a cumulative grade point average of 2.00 or higher for undergraduate-level coursework.

The purpose of this admission category is to allow individuals to:

- Update and enhance their professional knowledge and skills;
- Enroll in courses of personal interest; or
- Complete prerequisites needed to pursue future academic goals.

Under this admission category, students may enroll in a maximum of 30 undergraduate credits. Admission as a nontraditional student for personal or professional development does not lead to the completion of an academic degree.

Individuals admitted through this mechanism must comply with all other University of Puerto Rico regulations, policies, and requirements. In addition, they may not be concurrently enrolled as regular students at the Río Piedras Campus or at any other institutional unit of the University of Puerto Rico System.

Pilot Plan for the Undergraduate Student Admission Policy of the University of Puerto Rico

Governing Board Certification No. 33 (2022–2023), as amended by Certification No. 10 (2023–2024)

The Pilot Plan for the Undergraduate Student Admission Policy of the University of Puerto

Rico was established to broaden access and serve a diverse population of undergraduate students through both traditional and nontraditional admission pathways. The plan provides a uniform admissions process designed to ensure consistent implementation in accordance with institutional policies and regulations.

The Pilot Plan is applicable to all institutional units of the University of Puerto Rico System and seeks to promote equitable access to higher education while recognizing multiple pathways for student admission and success.

The scope of the Pilot Plan extends to:

- All undergraduate academic programs;
- Admissions offices;
- Financial aid offices;
- Registrars' offices;
- Student information systems; and
- All offices that provide direct services to students.

Through this initiative, the University aims to establish a coordinated and comprehensive admissions framework that supports student access, enrollment, and academic success across the University of Puerto Rico System.

Policy on Second Bachelor's Degrees, Second Majors, Minors, and Professional Certifications at the University of Puerto Rico

Under **Governing Board Certification No. 44 (2019–2020)**, the University of Puerto Rico established a policy governing **Professional Certifications**, **Second Bachelor's Degrees**, **Second Majors**, and **Minors** as academic options that may be pursued concurrently with a student's first bachelor's degree. These options are designed to be completed without significantly extending the prescribed time for degree completion or increasing the normal semester course load.

This policy was adopted in accordance with University regulations, recognized trends in higher education, accreditation standards, licensing requirements, and applicable professional practice regulations.

The policy applies exclusively to **undergraduate studies**. Areas of emphasis are not covered because they do not appear as part of the academic degree, do not qualify as second majors, and are considered integral components of existing majors or specializations rather than separate academic credentials. However, completion of an area of emphasis may be noted in the student's academic record.

Curricular sequences authorized under Governing Board Certification No. 44 (2019–2020) must be organized in accordance with **Certification No. 163 (2022–2023)**.

Professional Certification

A **Professional Certification** consists of a structured sequence of courses and formal educational activities associated with a recognized professional competency area within an institutional unit that is supported by licensing, professional accreditation, and applicable legal requirements for professional practice.

The certification is designed to be completed simultaneously with the requirements of a bachelor's degree program. Successful completion is documented through a notation on the student's academic transcript.

Requirements include:

- A minimum of **15 credits** in courses designated as part of the certification.

- At least **9 credits** must be advanced-level courses (**4000 level or above**).
- Free electives that form part of the certification may also satisfy degree requirements in the student's bachelor's program (**double counting** is permitted).
- Any additional legal or professional licensure requirements must also be satisfied where applicable.
- Professional certifications may be offered only in competency areas recognized through institutional licensure, professional accreditation, and applicable professional practice requirements.
- Students should declare their intention to pursue a Professional Certification as early as possible in their academic program so the certification can be completed concurrently with their bachelor's degree and within **150 percent of the prescribed time** for degree completion.

Major)

A **Major** consists of a set of courses and formal educational activities focused on a particular field, functional area, or application within an undergraduate discipline.

The curriculum is organized so that the major field is identified as part of the bachelor's degree designation appearing in the Academic Program Inventory and the institutional license.

Associate degrees, because of their shorter and more intensive nature, are not considered majors under this policy.

Specialization (Graduate Major)

A **Specialization** is a set of courses and formal educational activities focused on a field, functional area, or application within a graduate discipline.

The specialization is identified after the graduate degree designation as approved in the Academic Program Inventory and institutional license.

Minor

A **Minor** consists of a structured set of courses and educational activities that are distinct from those required for a student's primary major. A minor is completed concurrently with the requirements of a bachelor's degree and is recorded through a notation on the student's academic transcript.

Requirements include:

- A minimum of **9 credits** in courses designated as part of the minor.
- Courses used to satisfy a minor **may not be double-counted** toward the requirements of another major or minor.
- However, free elective courses that constitute part of the minor may also be applied toward the graduation requirements of the student's bachelor's degree program (**double counting is permitted for free electives**).

Language of Instruction

Spanish is the primary language of instruction for most courses and academic programs. However, students are expected to possess sufficient proficiency in English to successfully pursue their studies at the Río Piedras Campus.

Class Schedules

The names of regular faculty members should appear in the class schedule beginning with the preregistration period, although assignments remain subject to change. Whenever possible, and

while ensuring that instructors possess the appropriate qualifications, course offerings will not be limited to a single instructor. In addition, courses may be offered at alternative times to provide greater scheduling flexibility.

Instructional Methodology

Course instruction may not consist exclusively of oral presentations by students. Teaching methodologies are varied and are designed to reflect contemporary approaches to teaching and learning, incorporating diverse instructional strategies that support student engagement and achievement.

INSTRUCTIONAL MODALITIES IN THE ACADEMIC OFFERING

In accordance with current institutional regulations (**Governing Board Certification No. 48, 2025–2026)**, courses may be offered in the following instructional modalities: **face-to-face (P), multimodal (M), online (L), and hybrid (H).**

- **Face-to-Face Course (P)**
  A course in which teaching and learning activities require the physical presence of both the instructor and the students at the same time and in the same location. Up to 25 percent of contact hours may incorporate technology-supported activities and online resources without changing the course's face-to-face nature.
- **Multimodal Course (M)**
  A course offered simultaneously in two modalities: face-to-face and synchronous online instruction. One group of students participates physically in the classroom while another participates remotely in real time through technological tools that facilitate interaction between both groups. A specific class schedule is required.
- **Online Course (L)**
  A distance education modality in which all teaching, learning, and interaction activities are conducted through the Learning Management System (LMS) and other integrated instructional technologies.
  - **Asynchronous Online Course**
    The instructor and students interact at different times. Students may access course materials and complete activities according to flexible schedules. No fixed meeting schedule is required.
  - **Synchronous Online Course**
    Interaction occurs in real time, although instructors and students are located in different places. A specific meeting schedule is required.
- **Hybrid Course (H)**
  A course that combines face-to-face and online activities, with more than 25 percent but less than 100 percent of contact hours delivered at a distance. Hybrid courses integrate both synchronous and asynchronous learning experiences through the Learning Management System. A schedule is required for the face-to-face components of the course.

The Río Piedras Campus offers courses in a variety of instructional modalities to meet the academic and scheduling needs of its students. Online courses may be delivered either synchronously, when interaction between faculty and students occurs in real time, or asynchronously, when academic activities take place at different times through the institutional

Learning Management System. Hybrid courses combine face-to-face and distance learning activities, while multimodal courses are offered simultaneously to students attending in person and students participating online. Regardless of the modality, all courses maintain the same learning objectives, academic rigor, credit value, and quality standards established by the University, while promoting meaningful interaction between faculty and students through the use of institutional educational technologies.

As part of accreditation and licensing requirements, faculty members who teach online courses or courses delivered in nontraditional instructional modalities (hybrid, distance, or online) must successfully complete and maintain current certification in the development of virtual learning environments. These training certifications are offered by the Center for Academic Excellence (CEA) and the Division of Continuing Education and Professional Studies (DECEP). Deans and program directors are responsible for ensuring that faculty members possess the required training and certifications.

COURSE SYLLABUS (COURSE OUTLINE)

University of Puerto Rico Governing Board Certification No. 48 (2025–2026)

It is the responsibility of each faculty member to prepare, distribute, and discuss a course syllabus with students during the first week of classes. The syllabus may be revised as a result of dialogue between the instructor and students. It must include the following information:

A. Header
B. Course Title
C. Course Code
D. Credit Hours
E. Prerequisites, Corequisites, and Other Requirements
F. Course Description
G. Learning Objectives
H. Primary Course Textbook
I. Course Content Outline and Time Distribution
J. Instructional Strategies
K. Minimum Available or Required Resources
L. Assessment Methods
M. Reasonable Accommodation Statement
N. Academic Integrity Statement
O. Policy and Procedures for Addressing Sex- and Gender-Based Discrimination at the University of Puerto Rico
P. Contingency Plan in the Event of an Emergency or Interruption of Classes
Q. Grading System
R. Bibliography

FACULTY OFFICE HOURS

Faculty office hours shall be established by the instructor, taking into consideration the times that are most beneficial to students. This information must be made available to students at the beginning of the semester through the course syllabus or another accessible location.

Each academic department shall maintain and publish a list of faculty office hours for the information and benefit of students.

GENERAL RULES ON COURSES AND ENROLLMENT

Enrollment

The Registrar is the custodian of the documentation relating to the students and is the one who sets the enrolment procedure. All study programs must be approved in order to be valid.

Students must select and pay for their courses on the days and times indicated by the Campus in the corresponding academic calendar. Except in exceptional cases where there is a recommendation from a dean, no student will be allowed to enroll after the third day of classes in the semester or the first day of summer.

The student must submit the forms given to them on the corresponding platform. All new students must submit the required documents in order to enroll.

The registration will remain incomplete and will have no official value until the student pays all required tuition fees and deposits at the Revenue Office.

Student Classification

Students at the Río Piedras Campus are classified into the following categories:

Full-time program students, those who have met the entry requirements, are candidates for a degree, and follow a regular program with a minimum of 12credits per semester at the undergraduate level or six credits as an evening student, 4 in the summer session and 6 per quarter (corresponding graduate program). In the same way, regular undergraduate students will be considered those enrolled in practical courses recognized by the Academic Senate, as equivalent to a full academic load.

Part-time program students are those who meet the entry requirements, are candidates for a degree, and enroll in fewer than 12 credits per semester at the undergraduate level, fewer than 6 credits as evening students, or fewer than 4 credits during the summer session.

Auditory students, those who have or have not met the entry requirements, are not candidates for any degree and attend classes, with prior authorization from the director of the corresponding department and the Registrar. They do not receive official grading or credit for the work done in the courses they attend.

Academic Programs

Regular Academic Year. The regular academic year consists of two semesters and one summer session: the first from August to December, and the second from January to May. The start and end dates of each semester are determined by the corresponding academic calendar. In the case of trimesters, academic periods are divided as follows: August to October, November to February, and March to May.

Students' academic programs typically consist of no more than 21 credits per semester at the undergraduate level. The number of credits per semester may be adjusted with the authorization of the dean of the relevant faculty, but under no circumstances may it exceed 21 credits. This rule also applies to students authorized to study at other colleges or universities.

All courses taught at the Río Piedras Campus may be credited as free electives for students who have passed them. However, this does not apply to courses that substantially repeat content covered in other courses within the student's specialty. Students may choose which courses to take as free electives.

Summer Session. The summer sessions are offered during the months of June and July, on the dates stipulated in the corresponding academic calendar. Applications to start university studies in the summer will not be accepted, except for those students from other universities who wish to study on campus as transient students.

The regular academic load during the summer sessions will not exceed three (3) courses with a maximum of seven (7) credits (per session). Candidates for summer graduation and students with honors are exempt from this rule. Such students may take up to a maximum of ten (10) credits. No abridged courses will be offered in the summer session. The credits authorized to students of the Río Piedras Campus who study during the summer at other colleges or universities will be governed by the rules established by the University of Puerto Rico for their summer session. The student's program will be subject to the approval of the dean of the appropriate faculty.

Program Changes

Changes may be authorized to programs already approved by the deans and registered by the Registrar on the days indicated in the academic calendar, which will extend until no less than the first three days after the beginning of the semester and the second day after the beginning of the summer session. No program changes will be allowed after the dates indicated. They must be approved by the corresponding dean and the Registrar. All courses in which the student is enrolled will be recorded on his/her academic record.

Withdrawals

Before the deadline for partial withdrawals, instructors must inform students of their current grade in the course. Each faculty or school shall establish, through its internal regulations, the rules or exceptions governing the instructor’s obligation to provide students with their grades prior to the partial withdrawal deadline.

Students may submit a total withdrawal from all courses at any time during the semester or summer session up to the day before the beginning of final examinations. This provision was approved by the Academic Senate through Certification No. 21 (1995–1996).

For undergraduate courses, the deadline for partial withdrawals is the last day of the ninth week of classes. When a withdrawal is properly authorized, the student will receive a grade of W (Official Withdrawal) for the corresponding course. The dean will notify the Registrar of the approved withdrawal.

After the deadlines described above, withdrawals will not be permitted except in exceptional cases involving illness or partial disability of the student. Such cases must be appropriately documented and certified by the Campus Department of Medical Services and approved by the dean of the corresponding faculty or school.

Reclassification

Active students at the Río Piedras Campus who wish to transfer to another faculty, school, or academic program must submit the appropriate reclassification application or form and satisfy the minimum academic index required by the academic unit of interest, except in the following cases:

1. First-year students who wish to change their academic option during their second year must

complete the Second Option Application provided by the Faculty of General Studies.

2. Active undergraduate students in their second year or beyond who wish to change academic programs must complete the application available through the Services platform on the NEXT Portal and pay the corresponding $20.00 application fee.
3. Active students seeking admission to graduate programs must complete the special application provided by the Dean of Graduate Studies and Research and pay the corresponding $30.00 application fee.

Course Numbering System

University of Puerto Rico Governing Board Certification No. 48 (2025–2026)

All courses at the University are identified by a title containing letters and numbers that designate the subject area and the course. The first numeric digit indicates the course level as follows:

First Digit	Level
00	**Remedial.** The material covered is considered pre-university level even though it is offered at the University.
01–04	**Continuing Education** courses (0100–0400) and University of Puerto Rico secondary and intermediate school courses (0700 and above).
1	Technical Certificate or Technical Associate Degree, first level
2	Technical Certificate or Associate Degree, second level
3	Bachelor's Degree, first level; Technical Certificate and Associate Degree programs that articulate into bachelor's degree programs
4	Bachelor's Degree, second level; Undergraduate Certificate
5	Advanced Bachelor's Degree level
6	Master's Degree; Graduate Certificate
7	First Professional Doctoral Degree (Law, Dentistry, Medicine, among others)
8	Doctor of Philosophy (Ph.D.), Doctor of Education (Ed.D.), or Doctor of Psychology (Psy.D.)
9	Postdoctoral Level

Attendance in Courses and Examinations

Class Attendance

Class attendance is mandatory. Faculty members are required to keep a record of student absences and report them to the Registrar along with semester grades. Frequent absences may adversely affect a student's final grade and may result in the loss of course credit.

In the event of an **unannounced delay by the instructor**, students are required to wait **fifteen (15) minutes** after the scheduled starting time of the class.

According to guidance issued by the Office of the Vice Presidency for Student Affairs of the University of Puerto Rico Central Administration, federal regulations (*Standards for Participation in Title IV, HEA Programs*) require educational institutions to maintain procedures that document student attendance. Institutions must be able to determine and document when

students stop attending classes, as this may affect their eligibility for federal financial aid. To comply with this requirement, the University has established a periodic attendance verification process through class rosters distributed twice each semester. Faculty members must identify students who do not attend classes regularly, sign the roster, and return it to the Office of the Registrar no later than the dates specified.

Printed class schedules indicate the length of each class period. To facilitate classroom changes and student movement throughout the campus, instructors are expected to begin classes promptly at the scheduled time and conclude them ten minutes before the start of the next class period. Accordingly, one class hour consists of **fifty minutes of instruction**. Classes scheduled for one and one-half hours have an instructional duration of **eighty minutes**. The same pattern applies to classes of longer duration.

Faculty members teaching classes lasting two or more hours may provide a break of five to ten minutes, depending on the length of the class session.

Review Period

A designated **review period** is included in the academic calendar to allow students adequate time to prepare for final examinations. This period should not be used for other purposes. The review period is identified in the academic calendar for the corresponding semester.

Final Examinations

Final examinations in all courses shall be administered in written form unless the nature of the subject matter makes a written examination impractical or the dean of the corresponding faculty authorizes an alternative form of assessment.

Faculty members are responsible for evaluating student performance and may employ the evaluation methods they deem most appropriate, provided that final grades are based on objective evidence of student achievement.

Faculty members are required to comply with the final examination schedule and grade submission deadlines established by the Office of the Registrar. This requirement also applies to partially cumulative final examinations. In exceptional and fully justified circumstances, instructors must obtain the appropriate authorization before changing a scheduled examination date.

As a general rule, students should not be required to take more than **two final examinations on the same day**.

Faculty members must submit final grades to the Registrar within **five days** following the end of the examination period.

Retention of Examinations and Equivalent Work

Corrected final examinations and other equivalent assignments that have not been returned to students must be retained by the instructor for **one academic semester** as evidence in the event of a grade appeal or other claim.

Attendance at Final Examinations

A student who fails to appear for a final examination that has been properly scheduled and announced by the Campus shall receive a grade of **Zero (0)** or **F** for that examination.

If the student provides a valid justification for the absence within the week following the examination period, the dean of the corresponding faculty may authorize the administration of a make-up examination. Such examination must be completed before the end of the following academic semester.

Grades

Unit of Instruction

One university credit is equivalent to one hour of class instruction or two to four hours of laboratory work per week during a semester. A semester consists of 15 weeks of classes plus a final examination period.

Grading System

The grading system at the Río Piedras Campus is as follows:

Grade	Definition
A	Excellent
B	Good
C	Satisfactory
D	Passing, but deficient
F	Failure
P	Pass; not computed in the grade point average
NP	No Pass; not computed in the grade point average
W	Official Withdrawal; not computed in the grade point average
F*	Unauthorized Withdrawal
I	Incomplete; must be completed before the end of the following semester
REP	Repeated Course; not computed in the grade point average
NG	No Grade Assigned

Provisional Grades

A student may receive a provisional grade of Incomplete (I) when the instructor determines that, for justified reasons, the student has been unable to complete all course requirements.

An F is assigned to the portion of the coursework not completed. Before the end of the following academic semester, the instructor may replace the provisional grade with a final grade and notify the Registrar accordingly. The final grade may not be lower than the provisional grade.

If the instructor does not report a grade change within the specified period, the provisional grade becomes the student's final grade.

Grade Appeals

Academic Senate Certification No. 118 (2022–2023), consistent with Article 2.12 of the Río Piedras Campus Student Regulations, recognizes **"the right of every student to a fair and adequate review of his or her grade."** Accordingly, it establishes the procedures and general guidelines through which students may request the review of partial grades reported during the semester, as well as final grades submitted to the Office of the Registrar. All aspects of this process are confidential.

A student who is dissatisfied with a grade received in a course should first discuss the evaluation with the instructor. If the student remains dissatisfied after this discussion, the student has the right to request a grade review from the Department Chair no later than the following academic semester. The parties involved will determine the appropriate procedure for resolving the matter. The student is responsible for initiating the review process when, in the student's

judgment, the grade awarded warrants reconsideration.

Grade Point Average (GPA)

The **Grade Point Average (GPA)** is the University's measure of a student's academic achievement. It is calculated by dividing the total number of quality points earned by the total number of credits attempted in courses for which final grades have been assigned, including grades of **F** and **F***.

Quality points are assigned as follows:

Grade	Quality Points
A	4
B	3
C	2
D	1
F	0
F*	0

For undergraduate students, a **2.00 GPA**, equivalent to a grade of **C**, is considered satisfactory academic standing.

Repeated Courses

Courses in which a student earns a grade of **D**, **F**, or **No Pass (NP)** may be repeated without restriction.

Courses completed with a grade of **C** may be repeated only under special circumstances and upon the recommendation of the student's Academic Advisor or Department Chair. A student may appeal the decision of these officials to the Dean of the corresponding faculty or school.

When a course is repeated:

- Only the **highest grade earned** is included in the GPA calculation.
- All grades earned, including the lower grades, remain permanently recorded on the student's academic transcript.

Courses marked with a **W (Official Withdrawal)** are not included in GPA calculations.

Additional provisions include:

- Courses completed with a grade of **C** may be repeated only before the student completes the bachelor's degree.
- Undergraduate courses completed with a grade of **C** beginning in Academic Year 1976–1977 may be repeated in accordance with Higher Education Council Certification No. 87 (1976–1977).
- The Academic Senate of the Río Piedras Campus recognizes the institutional cumulative GPA as the student's official academic index, while reserving the authority to establish criteria for calculating honors distinctions.

Summer Session Grades

Grades earned during a summer session are included in the calculation of the student's GPA for the following academic year.

Expired Courses

Grades earned in courses designated by the Campus as **expired courses** are not included in the cumulative GPA calculation. An expiration notation will be recorded on the student's academic transcript.

When calculating eligibility for graduation, only grades earned in courses that satisfy

required or elective components of the student's academic program are considered.

Academic Retention Standards

To be considered as making **satisfactory academic progress** and remain eligible to continue studies at the Río Piedras Campus, students must meet the minimum retention grade point average established for their academic year.

Minimum Academic Index Required for Retention

A student's academic performance will be considered deficient if the following minimum requirements are not met at the end of each academic year:

Year of Study	Minimum GPA Required
First Year	1.90
Second Year	2.00
Third Year	2.00
Fourth Year	2.00

Academic Probation

If a student's academic index falls below the minimum required to continue studies at the Campus, the student will be placed on **academic probation** for a period of one year and will receive counseling and other support services designed to improve academic performance. During the probationary period, the student's academic load will be limited to a maximum of **twelve (12) credits per semester**.

To qualify for an **extension of the probationary period**, the student must earn a grade point average of **2.00** during the probationary year while enrolled in a regular academic program consisting of at least twelve credits per semester.

Degree Classification Requirement

All students must be **officially classified in a degree-granting program** by the end of their third year of study. For purposes of this requirement, the third year of study is considered to have been reached upon successful completion of **89 credits**.

Students who have not been formally admitted to a degree program by that time may receive a **conditional classification** from the faculty or school in which they intend to graduate. After one year under conditional classification, the student must obtain formal admission to the desired program or will be administratively suspended for one semester.

Students seeking readmission after such a suspension must apply to the academic program from which they intend to graduate. Otherwise, they will receive a transitional classification for one year and must obtain the appropriate formal admission to continue their studies.

Minimum Credit Completion Requirement

Students must successfully complete at least **fifty percent (50%)** of the credits for which they enroll each academic year.

Students who fail to meet this requirement will be placed on **administrative probation** for one year. If, after the probationary period, the student still fails to comply with the requirement, the student will be subject to an **administrative suspension** of one year.

This administrative suspension will not be recorded on the student's academic transcript.

Completion of Studies Without Meeting Retention Requirements

In cases where a student completes coursework but does not achieve the minimum retention index required by the Campus, the Río Piedras Campus will certify only the years of study

completed and the academic preparation acquired by the student.

Readmission with Academic Amnesty

Board of Trustees Certification No. 27 (2008–2009) established the **Readmission with Academic Amnesty Policy** of the University of Puerto Rico.

This policy provides an opportunity for students who were previously admitted to the University, discontinued their studies, and do not qualify for regular readmission to resume their academic pursuits.

The policy applies exclusively to students who:

- Began their studies at the **undergraduate level**; and
- Seek to return to a program for which they qualify under the criteria established by the policy.

Under the Academic Amnesty provision, up to **21 credits** of previously completed coursework with unsatisfactory grades taken before readmission may be excluded from the calculation of the student's cumulative grade point average. These credits are also excluded when determining the student's equivalent years of study.

Satisfactory Academic Progress

Satisfactory Academic Progress (SAP) refers to the set of quantitative and qualitative academic standards approved by the institution, in accordance with the federal requirements governing **Title IV Student Financial Assistance Programs** of the **U.S. Department of Education**. These standards are used to evaluate students' progress toward the completion of their academic objectives within a period not exceeding **150 percent of the time normally required** to complete their academic program.

The annual evaluation includes consideration of:

- Academic grade point average (GPA);
- Credits attempted and successfully completed; and
- Progress toward fulfilling the requirements of the academic program in which the student is enrolled within the maximum time frame established for the degree level (bachelor's, master's, doctoral, or law).

Students are notified of their academic progress status at the conclusion of each academic year. Students who fail to meet the established requirements may be placed on **financial aid probation** and/or declared **ineligible for financial aid** during the subsequent academic year.

The Río Piedras Campus establishes and publicizes appeal procedures, in accordance with applicable regulations, through which a student who has been determined to be ineligible may request a review of the satisfactory academic progress determination. However, the appeal process does not alter the student's academic or financial responsibilities to the institution until a final decision has been issued.

For detailed information regarding **Governing Board Certification No. 111 (2013–2014)**, please consult the corresponding University documentation. http://www.uprrp.edu/wp-content/uploads/2016/09/111-2013-2014.pdf

General graduation requirements

– REFER TO RRP ACADEMIC SENATE CERTIFICATION 95, 2019-2020

To qualify as a candidate for graduation, a student must meet the following requirements:

1. Graduation GPA

Students must successfully complete the courses prescribed in their academic program with a minimum **cumulative grade point average (GPA) of 2.00** at the bachelor's degree level. In addition, a minimum GPA of **2.00 in the major field of study** is required.

- Certain programs, as approved by the Academic Senate, may require a higher graduation GPA or may not accept grades of **D** in major courses.

2. Residency Requirement

Students must complete at least **36 of their final 48 credits** at the Río Piedras Campus.

In exceptional cases, this requirement may be waived upon the recommendation of a committee composed of:

- The dean of the corresponding faculty or school;
- The Dean of Academic Affairs; and
- The Registrar.

3. Time Limit for Degree Completion

Students must complete the requirements for their degree within the maximum time limits established by University regulations:

- **Four-year programs:** maximum of **10 years**
- **Evening programs:** maximum of **12 years**

Students who exceed these limits may be required by the appropriate dean to repeat courses that, in the dean's judgment, require review or updating. In such cases, the student must obtain written authorization from the dean, together with a list of the courses to be repeated. This authorization must also be approved by the Registrar.

4. Classification in the Degree-Granting Faculty or School

Students must satisfy the general admission requirements and must have been formally admitted to the faculty or school from which the degree will be awarded.

5. Graduation Deficiency of One or Two Elective Credits

Students who, at the time of applying for graduation, are lacking **one or two elective credits** as a result of curriculum or program revisions may request a waiver.

Such requests require favorable recommendations from:

- The Dean of the Faculty or School;
- The Registrar; and
- The Dean of Academic Affairs.

These officials constitute a special committee that will make the final determination. (Academic Senate Certification No. 3, 1975–1976.)

6. Application for Graduation

Students must formally apply for graduation by submitting the appropriate application to the Registrar.

The application must be filed during the registration period of the semester in which the student expects to complete all degree requirements and no later than the deadlines established in the current academic calendar.

A graduation application submitted at the beginning of the academic year (August) remains valid through the conclusion of the following summer session.

For summer graduation, the application must be submitted on the date of registration.

The graduation application fee is **nonrefundable**.

7. Financial Obligations

Students must have **no outstanding financial obligations** to the University.

8. Recommendation for the Degree

Students must be recommended for graduation by:

- The faculty or school from which they seek the degree; and
- The appropriate governing and academic authorities of the institution.

Honors

To graduate **with honors**, students must satisfy the following additional requirements:

1. Graduation Grade Point Average

Students who complete the prescribed program of study with the following cumulative grade point averages shall receive the corresponding honors designation:

GPA	Honors Designation
3.33 – 3.49	**Cum Laude** (Honors)
3.50 – 3.95	**Magna Cum Laude** (High Honors)
3.96 – 4.00	**Summa Cum Laude** (Highest Honors)

2. Limitation on Grades of F, W, and Repeated Courses

The total number of credits associated with grades of **F**, **W (Official Withdrawal)**, or repeated courses required for the degree may not exceed **15 credits**.

3. Applicability

These honors provisions apply to **undergraduate programs only** and are not applicable to graduate programs, **except for the School of Law**.

4. Residency and Major Credits Requirements

In accordance with **Academic Senate Certification No. 131 (1998–1999)**, students must:

- Complete at least **36 credits in residence** at the Río Piedras Campus.
- Complete at least **fifty percent (50%) of the credits required in the major field of study** within the program, department, or academic unit of the Río Piedras Campus that awards the degree.

In exceptional circumstances, advanced courses may be completed at other institutions with departmental authorization.

5. Repeated Courses

To qualify for graduation with honors, students may repeat a maximum of **fifteen (15) credits**, including withdrawals from required courses.

For purposes of applying this provision, the first semester during which a student filed a **total withdrawal** shall be excluded from the calculation.

Changes in Graduation Requirements

The University reserves the right to modify academic programs and graduation requirements. However, as a general rule, students are expected to complete their degree requirements under the curriculum in effect at the time of their admission to the institution.

Students who do not complete degree requirements within the time limits established for their academic program, as well as students who return after a period of absence, will be subject to the academic requirements and regulations applicable to the class with which they graduate.

TUITION AND FEES

Pursuant to **Governing Board Certification No. 130 (2020–2021)** and **Finance Office Circulars 22-01 and 22-02**, increases were implemented in tuition rates and other charges related to student services and institutional obligations.

The changes included increases in the **cost per credit** for both undergraduate and graduate students, as well as increases in the **technology fee** and the **maintenance fee**. The equipment and computer fee remained unchanged because academic offerings continued to include hybrid and distance learning courses.

The tuition rates established were as follows:

Academic Level	Cost per Credit
Undergraduate	$157.00
Master's Degree	$205.00
Master of Architecture	$215.00
Doctor of Philosophy (Ph.D.)	$215.00
Juris Doctor (J.D.)	$305.00
Master of Laws (LL.M.)	Annual fee of $12,500.00

Additional fees and charges included:

Fee	Amount
DECEP Courses	$157.00 per credit
Undergraduate Technology Fee	$50.00
Graduate Technology Fee	$100.00
Undergraduate Maintenance Fee	$100.00
Graduate Maintenance Fee	$200.00
Laboratory Fee (up to three laboratories)	$100.00
Thesis Course Fee	$67.00

Because the increase in tuition costs was implemented on a phased basis in previous years, students may encounter different tuition and fee amounts depending on their period of enrollment and the academic regulations applicable to their cohort.

Special Tuition Rates for International and Nonresident Students

Nonresident students who are **United States citizens** are required to pay, in addition to regular tuition and fees, a supplementary tuition charge equivalent to the minimum amount that Puerto Rico resident students would be required to pay if they attended the public universities of the state or jurisdiction from which the nonresident student originates. These students are also responsible for all other applicable tuition and institutional fees.

International nonresident students enrolled on a full-time basis are required to pay tuition of **$3,480 per semester** at the undergraduate level (rate in effect for Academic Year 2021–2022), in addition to all other applicable tuition and fees.

In the case of students participating in **exchange programs** established between the University of Puerto

Rico System and institutions of higher education abroad, the President of the University may determine the tuition and fees to be charged in accordance with the terms and conditions of the applicable agreements or exchange arrangements. Under no circumstances may these charges be lower than those paid by students who are residents of Puerto Rico.
These tuition and fee payments are nonrefundable.

Regular Fees

1. Admission Fee. Students are required to pay an **admission application fee of $30.00**.
2. Medical Services Fee. A **Medical Services Fee** is charged to all students enrolled in **two or more credit-bearing courses** during any academic session. Candidates for graduation are required to participate in the medical services plan regardless of the number of courses in which they are enrolled. The following students are exempt from the Medical Services Fee:

- Auditing students (noncredit students); and
- Students who provide documentation demonstrating coverage under a personal health insurance plan.

Students who pay the Medical Services Fee during the second semester remain covered by the policy through the day preceding the first day of classes of the following semester, regardless of whether they enroll in the Summer Session.

Special Fees

(These fees are nonrefundable.)

1. **Readmission:** $35.00; **Late Readmission:** $52.50. Applications submitted after the initial deadline established in the academic calendar shall be charged one and one-half times the regular fee. The applicable deadline is specified in the current academic calendar.
2. **Transfer Admission from Another Institution:** $50.00; **Late Transfer Application:** $75.00.
3. **Authorization to Transfer to Another Faculty within the Campus:** $20.00.
4. **Authorization to Change from One Academic Program to Another within the Same Faculty:** $20.00.
5. **Student Identification Card:** $10.00.
6. **Late Registration:** $20.00.
7. **Issuance of Duplicate Documents:** $5.00.
8. **Partial Withdrawal (per course):** $10.00.
9. **Total Withdrawal:** $15.00.
10. **Course Repetition (per course):** $20.00.
11. **Transfer Between Academic Units:** $25.00.

All fees are subject to change without prior notice.

Payment Regulations

Payment Deadlines
All tuition, fees, and required deposits for each academic semester must be paid on the date designated for registration.
Payment Extensions
Any student who demonstrates insufficient financial resources to pay tuition may apply for a **payment extension**.
Extensions may be granted only for the payment of tuition charges associated with enrolled credits. Fees and charges assessed in addition to tuition are not eligible for deferred payment.
Students who demonstrate financial need may be authorized to pay their tuition in installments distributed throughout the academic term in which they are enrolled.

Students receiving a **full scholarship award** are not eligible to participate in a payment plan. A student is considered a full-scholarship recipient when the scholarship award process has been completed and the funds are available for payment of tuition and fees.
To qualify for a payment plan, the student must:

- Be enrolled in at least **six undergraduate credits**; and
- Have no outstanding financial obligations to the University at the time the request is submitted.

This privilege is granted subject to the following conditions:

1. The request for a payment extension must be submitted before registration and within the period established by the Dean of Students so that the merits of the case may be evaluated.
2. On the registration date, the student must pay a portion of the tuition charges for enrolled credits in addition to all other registration fees. The remaining balance must be paid in equal installments on the dates established by the University. Payments not received by the due dates are subject to late charges.
3. All tuition, fees, and deposits must be paid in **United States currency** by check, money order, or credit card for the exact amount due and made payable to the **University of Puerto Rico**.
4. Students who fail to satisfy their financial obligations to the University by the established deadlines will be considered **delinquent debtors**.

Suspension of Services for Delinquent Accounts
Students with outstanding financial obligations to the University will not be issued official documents related to their academic work, will not be granted extensions for payment of tuition or other fees, and will not be eligible to receive other University services, whether free or fee-based.
Following written notification, any University service being provided to the student may be suspended until the outstanding balance has been paid in full or the student is complying with an approved payment arrangement.
For these purposes, written notice will be sent to the student's address on file in the University records. If the student fails to respond within **five (5) business days**, the University may proceed with the actions described above.

Refunds

Higher Education Council Certification No. 11 (1981–1982) and **University of Puerto Rico Presidential Circular 83-7 (1983–1984)** authorize the refund of **50 percent of tuition paid** to students who withdraw during the first two weeks of a regular academic semester or during the first week of a summer session. This refund applies only to tuition charges and excludes all other regular and special fees.
The 50 percent refund applies to both **total withdrawals** and **partial withdrawals** processed within the established period.
Failure to withdraw within the designated time frame results in the loss of eligibility for the refund.
No refunds will be granted to students who withdraw as a result of academic disciplinary action.
Students who receive a refund following a **total withdrawal** will not be considered enrolled at the Río Piedras Campus. To resume their studies at a later date, they must submit an application for readmission within the deadlines established in the academic calendar.

Honor Tuition Scholarship

Students may qualify for a **Honor Tuition Scholarship** and be exempt from paying tuition charges for academic credits if they meet the following requirements:

1. **First-year undergraduate and graduate students** are not eligible for the Honor Tuition Scholarship.
2. **Regular undergraduate students in their second, third, fourth, or fifth year**, as well as **graduate students beyond their first year**, are eligible for a tuition exemption if:

    - Their cumulative academic achievement within their degree program places them in the **top five percent (5%) of their cohort**, and
    - They maintain a cumulative grade point average (**GPA**) of **3.50 or higher**.
3. **Graduate students enrolled in thesis courses** corresponding to their degree program are eligible if they:
    - Maintain a GPA of **3.50 or higher**, and
    - Rank within the **top five percent (5%) of their cohort**.
4. **Readmitted students** in their second year or beyond who interrupted their studies for one semester or more are eligible for the Honor Tuition Scholarship if they:
    - Maintain a GPA of **3.50 or higher**;
    - Rank within the **top five percent (5%) of their cohort**; and
    - Complete a minimum of:
        - **12 credits per semester** at the undergraduate level, or
        - **8 credits per semester** at the graduate level.

Retention of the Honor Tuition Scholarship

To retain the scholarship, a regular student in the second year or beyond must:

- Maintain a minimum cumulative GPA of **3.50** at the end of each academic semester;
- Continue to rank within the **top five percent (5%) of the cohort**; and
- Meet all other scholarship eligibility requirements.

The maximum period during which a student may receive the Honor Tuition Scholarship is **150 percent of the normal time required to complete the academic program**, provided all other requirements continue to be met.

During the student's final semester, those who satisfy all other requirements may retain the scholarship even if enrolled in fewer credits than their regular academic load. This exception may be used only **once at each academic level**.

Loss of Eligibility

The Honor Tuition Scholarship will be discontinued if a student completes any semester with an academic load below:

- **12 credits** at the undergraduate level;
- **8 credits** at the graduate level;
- **6 credits** for students classified in evening programs; or
- **4 credits** during a Summer Session.

Other Types of Tuition Exemptions

Certain students are exempt from payment of tuition charges by virtue of legislation. These include students serving as student representatives on the **Governing Board** and the **University Board**, as well as students participating in **Special Programs administered by the Dean of Students Office**.

Students must satisfy the applicable eligibility requirements in order to receive these benefits.

Various statutes have also established special tuition exemptions for employees, spouses, children of employees, and other eligible groups. These benefits are governed by **Board of Trustees Certification No. 50 (2011–2012)**, as amended by **Governing Board Certification No. 108 (2013–2014)**. The amended policy establishes the eligibility criteria, conditions for participation, semester evaluation procedures, maximum periods of eligibility, and other specific requirements associated with these benefits.

For additional information regarding student eligibility for these exemptions, students should contact:

- **Office of the Registrar** – for information regarding **Honor Tuition Scholarships** and **Veterans' Benefits** under state and federal law.
- **Dean of Students Office** – for exemptions associated with student organizations and other special programs.

For information regarding educational benefits available to **faculty members**, **nonfaculty exempt employees**, and their **spouses and children**, individuals should contact the **Human Resources Office** of the Río Piedras Campus.

DEAN OF STUDENTS OFFICE

Mission

The mission of the **Dean of Students Office** is to support students in achieving their academic and professional goals by providing a variety of services, programs, and initiatives that facilitate their integration into and adaptation to the University environment, while promoting the development and strengthening of skills and competencies that contribute to their growth as socially responsible, fulfilled, adaptable, and productive individuals.

Vision

The vision of the **Dean of Students Office** is centered on maximizing each student's abilities and potential in order to achieve academic, professional, and personal goals, while enriching the overall educational experience and fostering the social, psychological, and emotional well-being of future citizens who will contribute to the development of Puerto Rico.

Services of the Dean of Students Office

The **Dean of Students Office** at the Río Piedras Campus provides high-quality services designed to meet the diverse needs of students and promote their physical, emotional, social, recreational, and academic well-being. Through these services, the Office supports the holistic development of students as engaged citizens who contribute positively to society.

The Office's vision reflects its role as a leading organization committed to serving a dynamic and evolving student population.

Motto: *"Serving Our Students with Excellence."*

The following sections describe the deanships, programs, and service units that operate under the Dean of Students Office and support student success and development at the Río Piedras Campus.

ATHLETIC DEPARTMENT

The Athletic Department is responsible for promoting student participation in intramural and intercollegiate sports programs. Their highest priority is to safeguard the physical and emotional well-being of student-athletes so that they can achieve their academic, social and athletic goals. In addition, it is responsible for complying with all the regulations of the bodies that govern university sports, whether it is the Intercollegiate Athletic League (LAI) or the National Collegiate Athletic Association (NCAA).

DEPARTMENT OF STUDENT DEVELOPMENT COUNSELING (DCODE)

The Department of Counseling for Student Development offers counseling and psychotherapy services at the individual and group level in the educational, vocational, personal and family areas to the student, so that they can achieve their optimal development as a student and as a person. It has counselors, social workers, and psychologists, who help the student achieve a better adjustment to university life. It provides the following complementary services:

- Individual and group counseling.
- Individual and group psychotherapy.
- Support and psychoeducational groups.
- Career counseling.
- Administration and interpretation of inventories of vocational interests.
- Workshops on topics related to emotional well-being, academic strategies, life and career development.

- Specialized training.
- Consulting of success

Student Guidance Program

The Student Guidance Program offers direct support to students so that they can better adapt to university life. In this way, they contribute to the achievement of their personal, social and academic goals. This management is carried out by a multidisciplinary team of professionals and by undergraduate students from different faculties and years of study, duly selected and trained. The focus of the Student Guidance Program is to meet the needs of adjustment and adaptation to university life of new students, through peer guidance and counseling, while facilitating training for the integral development of student counselors in small group meetings and socio-educational activities. It guarantees adaptation to university life, maximizes the development of each student counsellor and promotes the retention of all students who participate in the Program.

Through the program, the student's adjustment and adaptation process is facilitated, as well as the strengthening of personal, social and academic skills.

Office of Services for Students with Disabilities (OSEI)

The Office of Services for Students with Disabilities of the University of Puerto Rico ensures the faithful fulfillment of the rights of persons with disabilities, guaranteeing their equal participation and access to the services, programs, and activities available to the university community in general. The OSEI is the axis in the process of implementing systematic changes that tend to the integration and inclusion of students with disabilities in the university environment. Services offered:

- Evaluate and coordinate reasonable accommodation or modification services for students with disabilities in the classroom.
- Intercede in conflict situations regarding reasonable accommodations or modifications.
- Coordinate early enrollment processes for students with disabilities.
- Coordinate sign language readers, annotators, and interpreters.
- Offer conferences, workshops and orientations to the university community on issues related to people with disabilities.
- Refer students with disabilities for academic and vocational counseling or guidance.
- Coordinate mechanisms so that students have access to keys to elevators in their schools.

University Center

The University Center is the meeting point and geographic center of the University of Puerto Rico, Rio Piedras Campus. It was designed by architect Henry Klumb and opened in 1960.

It is the ideal institutional space to offer services and facilities for leisure, recreation and complement to academic life. It is also the right place to hold events that promote the socio-cultural development of our students. Among the main services found in this space are the Office of the Student Attorney, the General Student Council, the Office of Services for Students with Disabilities, the Department of Student Development Counseling, the Office of the Student

Guidance Program, the Medical Services Clinic; as well as the Events Unit and the Tuna UPR. The building has covered outdoor terraces, conference rooms, multipurpose rooms and other specialized areas, such as a screening room. A large study and recreation room, dining areas and outdoor study are presented special and exclusive spaces for the Gallitos and Jerezanas. The building is the ideal place for academic and extracurricular activities. In this space, concerts, festivals, workshops, conferences and exhibitions have been held, among many other events.

Id Cards

The Office of the Dean of Students provides an identification card. The identification card is an essential requirement for the student to receive services in the libraries, sports complex, medical services, cashing of scholarship checks, cultural, social and recreational activities of the Campus. The ID Card unit makes duplicates of cards when students have lost them. Students applying for the card for the first time or duplicate of the card must present a photo ID. A tool was recently added that allows the student to view their ID in digital format.

Associate Dean's Office of Students

The Associate Dean's Office of Students aims to assist in the management of services of the Dean's Office of Students, and to support its Assistant Deanships, Departments, and Units. In the academic context, we provide support in matters related to student academic progress for financial aid purposes, Certification No. 55 (2016-2017) from the Board of Governors of the University of Puerto Rico and Certification No. 108 (2018-2019) amending Certification No. 55.

Social, Recreational and Institutional Events Unit

The Social, Recreational and Institutional Events Unit is the largest producer of activities at the Río Piedras Campus and is responsible for promoting the active participation of students in university life. Its mission is to promote, present, communicate and produce institutional, social and recreational projects that contribute to the enrichment, adaptation and strengthening of the university experience of the students of the Río Piedras Campus. This Unit organizes events such as: Welcome Event for new students, Open House, Graduation, Academic Distinctions Ceremony, Letter Delivery Ceremony, Interuniversity Jousts, concerts, karaoke, festivals and fairs. Likewise, it collaborates in the activities and events of other units and faculties and provides support to the Abanderadas, the UPR Dance Team and the Tuna UPR, as well as the musical student groups of the Department of Music.

Assistant Dean of International Relations– DARI

The Assistant Dean of International Relations provides services to international students and exchange students. Its two main missions are to advance the international agenda of the Río Piedras Campus and to facilitate the mobility of its students. DARI operationalizes educational and cultural exchange opportunities with universities like ours in the Americas, Europe, Asia, Africa and Australia through bilateral and multilateral agreements (consortia). The DARI comprises two areas:

Student Mobility – Develops and strengthens student exchange projects with universities around the world. It offers excellent guidance services that result in an increase in both local students and U.S. institutions and foreigners, as well as foreign students at the Río Piedras Campus.

Teaching Mobility– Advises, guides, coordinates and processes the different visa mechanisms or options that allow the execution of academic and cultural activities in which

professors, researchers and international guests are involved in the Campus. It promotes, through guidance, the conditions for faculties to provide adequate accommodation for international visitors. It offers support, guidance and serves as a point of reference for visitors. It seeks to support the international activities of the faculties, as well as to promote the professionalization of the various people and instances that influence the process to make the visit of international visitors a reality. It also administers the Exchange Visitors Program (J) sponsored by the U.S. Department of State.

Agreements, Bilateral Agreements and Consortia – Student exchange and teacher mobility are part of the agreements that our Campus has signed with university institutions around the world.

The Río Piedras Campus is a member of the National Student Exchange (NSE) consortium, which facilitates exchange between universities in the United States, Canada, Puerto Rico, the Virgin Islands, Guam, and Hawaii. There are more than 180 available destinations. On the other hand, ISEP (International Student Exchange Program) is a consortium that offers study options at institutions around the world, including summer programs.

Exchange agreements give students the opportunity to study at any university abroad that is endorsed by the UPR. Spain is the top destination, as it holds the largest number of agreements. On our continent, the UPR also has partnerships with universities in countries like the United States, Mexico, Argentina, and the Dominican Republic, offering students a variety of enriching international experiences.

Likewise, the Río Piedras Campus receives students from the United States, Canada, France, Spain, Italy, Mexico, Asia and South America, who select our Campus as a study destination to complete an academic degree.

Bilateral agreements make it possible to adjust (adjust) the costs of studies. Both the students we send abroad and those we receive benefit from paying the costs of study at their home university while attending a prestigious university where the costs could be very high.

Assistant Dean of Student Services

Financial assistance

It helps students with financial need by offering them various alternatives that help them achieve their educational goals. It offers guidance to the student on the use and management of the funds granted and guarantees the confidentiality of the information, protected by the Buckley Act and the HIPPA law. The Financial Aid program is the only office authorized to guide the student and distribute funds in accordance with institutional and federal standards.

The grants offered by the Program include the following scholarships:

- Federal Pell Grant Program– This is a scholarship established by the Federal Department of Education for undergraduate students. It is the student's basic scholarship, which can determine if the student is eligible for other scholarships or other free aid programs.
- Supplemental Federal Grant Program (FSEOG) - This federal program provides additional money in the form of a scholarship to assist undergraduate students. It is based on financial need and Pell Grant eligibility.
- Work-Study Program - This program provides work for students with financial need, allowing them to earn money to pay for their study expenses. The program allows for community service and work related to students' studies. Remuneration is per hour, in accordance with the current federal minimum wage.
- Certification 47 (known as Certification 4) and Act 4 Institutional and State Scholarship

Scholarships for students with financial need that was not covered by the Pell Grant. The amount of aid the student receives is set by the Institution, depending on the funds allocated from Pell Grants and tuition costs.

- The Federal Work-Study Program (FWSP) is designed to promote part-time employment for college students from low-income families who need financial support to cover their educational expenses. Available to both undergraduate and graduate students, the program offers job opportunities on campus or off-campus. The number of hours students can work each week is based on their financial need and class schedule.
- Grants from Private Funds - These grants are provided in two ways: already designated to the participants, or through application and selection processes by committee. The Office of Economic Assistance collaborates in these processes when requested by the private entity. Such aid is administered according to the conditions set by the donors.
- Federal Direct Loans
    - Subsidized Loan– The federal government pays interest during the period of study and for the first six (6) months after students leave school or graduate.
    - UNSUBSIDIZED Loan- In this loan the student is responsible for the payment of interest from the moment he receives it. They can choose to pay the interest or let it accrue and capitalize (i.e., add it to the principal amount of the loan).
    - Federal Plus Loan- This is a loan for parents with a good credit history that they wish to take out to cover the costs of studying for their dependent children. The rate of interest rates is variable but never exceeds 9%. Generally, the first payment is made 60 days after receiving the last disbursement of the year.

Financial Assistance Program

Assists students with financial need in reaching their educational goals. Among the grants offered by the Program we can name the following: Pell Grant, Federal Grants, Work- Study Program, Guaranteed Loans and Institutional Supplemental. For information on the Program on the Internet, please visit: https://estudiantes.uprrp.edu/asistencia- economica/

Eligibility And Requirements to Apply for Financial Aid

- Have been admitted to a unit of the UPR system.
- Be enrolled in a program leading to an academic degree. The classification by enrolled credits is as follows:
    - 5 or fewer credits - Less than half-time student.
    - 6-8 credits - Half-time student.
    - 9-11 credits - student at three-quarter time.
    - 12 or more credits - full-time student.
- Present economic need, as defined by the Federal Department of Education.
- Be a citizen of the United States or be classified as an eligible person – non-citizen. Students with F1 and F2 Visas or J1 and J2 and Visas beginning with the G series will not be eligible to participate in the financial aid funds.
- Maintain satisfactory academic progress, as defined to maintain eligibility y to be able to receive financial aid.

All students must meet the standards of academic progress established by their unit. To learn about the established rules, students can access the following link:

https://www.uprrp.edu/2021/08/progreso-academico-informacion-importante/ Veteran students or beneficiaries of the Veterans Programs will be able to enjoy benefits under these programs if they complete their programs of study in the regular time stipulated in the Catalog

(four years). If they exceed it, they will lose their eligibility for these benefits under Title 38, although they will be able to receive financial assistance under Title IV programs (Pell Grant and others) if they maintain the corresponding eligibility requirements.

Housing Program

The residences of the Housing Program are in the process of being remodeled.

Student Organizations

This program serves as a facilitator to ensure compliance with the right of association, which is recognized by the Student Regulations of the Río Piedras Campus of the University of Puerto Rico. In addition, the office provides guidance services on enrollment processes to organizations. It sponsors and assists in the different areas of planning, coordination, development and evaluation of organizations.

Infant And Nursery Laboratory Program

The innovative model project Infant and Nursery Laboratory Program UPR-Río Piedras Campus provides high-quality education, development and care services to 18 maternal infants and their families. It offers services from Monday to Friday, from 8:00 am to 4:00 pm. to children of parents who are students of the Río Piedras Campus. The purpose of the Project is to serve as a center for observation of appropriate practices and practical experiences, to develop training, to support educational research and curriculum development, to advise service providers of the ACUDEN, (definition) as well as professional programs.

Medical Services

The Department of Medical Services operates through the provision of Law 101 of the Department of Health for medical-hospital facilities, which defines us as a Diagnostic and Treatment Center. As a health facility, it has the responsibility to ensure that the university population receives clinical care in quantity, quality and excellence. This is achieved through the availability, continuity, and accessibility of the services offered.

The purpose of the Medical Services Department is to promote the good physical, mental and social health of the entire university community, as well as the achievement of the best lifestyles. To achieve this purpose, activities are carried out in the prevention, diagnosis and treatment phases of physical and emotional conditions through the different service units.

The Department of Medical Services provides direct health care to members of the university community at the Rio Piedras Campus of the University of Puerto Rico, who voluntarily attend or are referred by internal and external support professionals to the university community to require and receive medical services or care, such as medical records, face-to-face and telemedical care, procedures related to the medical record and the liaison service with the student medical plan.

Quality Of Life

This Unit, attached to the Department of Medical Services, has the purpose of educating the community about wholeness, prevention of alcohol and other drug use, crime, and sexual harassment or assault. In addition, it is responsible for complying with federal regulations on Drug-Free Schools and Communities, and the Sexual Harassment and Assault Act. Among the services offered by the Quality-of-Life Office is: the FIESTA II Project, a proposal subsidized by the

Traffic Safety Commission for the education and prevention of alcohol consumption and substance use for traffic and road safety.

The unit coordinates the work of COME UPI, a space dedicated to food security and other student needs. As part of their efforts, campaigns and guidelines on healthy eating are developed, and food purchases and necessities are delivered to students.

The unit also oversees and assists with compliance efforts with aspects related to laws and institutional policies related to campus safety, drugs, and alcohol. It is responsible for the preparation of the Biennial report on compliance with the Drugs and Alcohol policy at the Venue.

The unit also coordinates orientations, fairs and clinics related to the promotion of wellness and comprehensive health, sexually transmitted diseases, responsible sexuality, the use of opioids, comorbid diseases (diabetes, high blood pressure, other thyroid), vaccination, food safety and campus safety.

Assistant Dean for Programs and Initiatives

The Assistant Dean's Office for Programs and Initiatives, part of the Dean's Office for Students, aims to offer services and coordinate initiatives, academic experiences, and programs that support students' holistic and professional development. Its objectives include fostering students' growth as creative leaders and active citizens in both local and global communities. Through its initiatives, the office emphasizes ethical and cooperative values while promoting civility, community service, and entrepreneurship at both the individual and collective levels.

Associated to the Assistant Dean's Office of Programs and Initiatives, the Student Recruitment, Retention, and Success Program (PRREE) focuses on providing services and orientation activities for high school and college-level students as they transition to the Río Piedras Campus. The program is dedicated to creating the conditions needed to support student retention, ensuring they successfully complete their studies while achieving holistic and professional development.

PRREE offers guidance in preparation for the job market, including job search processes, internships, and field experiences, helping students seamlessly transition into the workforce or pursue graduate studies. Additionally, the program serves as a bridge between high school students and the Río Piedras Campus, supporting them from recruitment through graduation, while also connecting students with potential employers.

SCHOOL OF ARCHITECTURE

Webpage: https://earq.uprrp.edu/
Tel.: (787) 763-5377; (787) 764-0000, exts. 87803, 87804, 87806
Email address: escuela.arquitectura@upr.edu
Postal Address: 11 Ave. Universidad STE 1101, San Juan, PR 00925-2531

Administration

Dean: Anna L. Georas Santos, Ph.D.
Associate Dean: Carola Ballester Descartes, MLA
Associate Dean of Student Affairs: Anixa Gonzáles Ríos, M.Arch.
Associate Dean of Administrative Affairs: Adia E. Ayala Quiñones
Department Chairs
Program/area Coordinators
Coordinator Undergraduate Program: Ernesto Rodríguez Matos, M.Arch.
Coordinator Technical Services: Mavet Colón Casellas, MOS, MCE
Director Architecture and Construction Archive: Nathalie González Torres, M.A.

History

The planning of the School of Architecture began in October 1965 because of the efforts of a group of Puerto Rican architects who collaborated with the Institute of Architects of Puerto Rico. On April 15, 1966, the Higher Education Council established the school. In August of that same year, the first group of students enrolled, and in June 1971, the first Bachelor of Architecture degrees were awarded. On July 17, 1976, the Higher Education Council approved the restructuring of the school to offer two degrees: a Bachelor in Environmental Design and a Master in Architecture, the latter being the professional degree. On March 21, 2019, the Puerto Rico Education Council approved a second track for the Master 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 (NAAB) as the only accredited public institution and the
only architecture school in Puerto Rico offering advanced professional studies.
It is a member of the Association of Collegiate Schools of Architecture (ACSA) and the Latin American Conference of Schools and Faculties of Architecture (CLEFA).

Degrees Offered

Bachelor in Environmental Design
Master in Architecture.

Student Services

Santiago Iglesias, Jr. Library

It holds approximately 33,000 volumes on architecture and related fields such as art history, design, technology, urbanism, planning, landscape architecture, and fine arts. The library provides the environment, technology, services, and informational resources necessary to support teaching and research in architecture and related subjects. Additionally, it includes the following collections: General, Special, Puerto Rico, Rare Books, Journals, and Slide Library.

Architecture and Construction Archive of the University of Puerto Rico (AACUPR)

Founded in 1986 as a support unit for teaching, it is a research center dedicated to the management and dissemination of knowledge. It actively organizes exhibitions, conducts

research, publishes two series, and works on nominating significant properties to the National Register of Historic Places. It has also organized congresses, conferences, and educational projects.

Design Research Center

Presented as a space for research and practice, the center seeks to integrate and understand the interaction between design and social intelligence. It promotes a multidisciplinary approach related to the design and

implementation of systems. It encourages research into collaborative systems that facilitate global-scale interaction among participants within the network.

Additionally, it explores new methods in design education and studio-based interaction.

Interdisciplinary Center for Urbanism, Environmental Design, and Development (CIUD[A]D)

It is dedicated to multidisciplinary research on the city, urbanism, social spaces, community, sustainability, development, and design. Its goal is to expand research that explores the connections between urban space, violence, political processes, and economic behavior. The strong academic interest in city spaces naturally responds to the dominance that urban culture exerts over all aspects of everyday modern life.

Computer Lab

It is a service and research center focused on digital processes in architecture and design. Students are regularly trained in the use of various software programs such as AutoCAD, Revit, Rhinoceros, Adobe Creative Suite, and 3ds Max.

Community Design Workshop

This workshop is an initiative that integrates design theory and practice in service of the community. By exploring design possibilities, it aims to enhance the quality of life in communities that typically lack access to guidance on the built environment. Academically, it allows students to confront architectural challenges in socially impacted areas and propose housing, physical development, and economic solutions that are responsive to our climate and culture.

Digital Fabrication Laboratory (Fab Lab)

It is a service and research center focused on fabrication. Students are regularly trained in the use of various materials, model-making techniques, and prototyping—through both digital and manual processes. The lab is equipped with a wide range of traditional and digital tools, including a dedicated woodworking area, a paint station, and digital fabrication equipment. This last area includes tools such as laser cutters, 3D printers, a vinyl printer, a metal milling machine, and a CNC router.

Acoustics Laboratory

The laboratory provides support equipment for courses in architectural acoustics and noise control, as well as a sound reproduction and digital recording system. Its specialized electroacoustic instruments—such as sound level meters, FFT analyzers, real-time analyzers, and oscilloscopes—enable acoustic evaluations that enhance the teaching and learning process in this area of study.

Structures and Materials Laboratory

The laboratory is equipped with computer systems dedicated to the analysis and experimentation of structural systems in buildings or projects studied in theory, structures, and design courses. It provides students with a deeper understanding of structural systems and their relevance in architecture.

Environmental Laboratory of Biotropical Architecture (LAAB)

This laboratory provides tools, instruments, and facilities for research related to solar protection, natural lighting, and ventilation. LAAB features an open-circuit, low-speed wind tunnel—the first of its kind in both Puerto Rico and the Caribbean. It is equipped with mechanical controls to regulate wind speed and omnidirectional, multichannel anemometers for measurement. The lab also includes a heliodon to demonstrate the effects of light and shadow on fenestrations and architectural features, as well as sun exposure in urban layouts. For natural lighting analysis, it offers multichannel light sensors and meters for use in interior and exterior model spaces, along with instruments for conducting climatic, environmental, and architectural analyses.

Admission Requirements

Incoming students must submit an application for admission to the campus. In March, admitted students will be notified of the steps to follow via regular mail. Those who do not meet the School's required IGS (General Admission Index) will also be notified in March about the possibility of submitting a portfolio for evaluation to determine their eligibility for admission. This portfolio must be prepared according to established guidelines.

Transfer Admission

Submit an application to the School of Architecture by the deadline indicated each year.

Submit a Transfer Admission Application through the Campus Admissions Office, located on the second floor of Plaza Universitaria.

Send official transcripts from the institutions where you have completed coursework. (The institution must be among the accredited universities in the country.) Courses must be applicable toward a bachelor's degree.

Have completed at least 12 credits with the GPA required by the School for the year in which you are applying.

If you do not meet the required GPA for that year, you will have the opportunity to submit a portfolio.

Internal Transfer Applicants

Submit an application to the School of Architecture by the deadline indicated each year.

Request a transfer through the Registrar's Office of your current academic unit to the Río Piedras Campus.

Have completed at least 12 credits with the GPA required by the School for the year in which you are applying.

If you do not meet the required GPA for that year, you will have the opportunity to submit a portfolio.

Reclassification Applicants

Submit an application to the School of Architecture by the deadline indicated each year.

Have completed at least 12 credits with the GPA required by the School for the year in which you are applying.

If you do not meet the required GPA for that year, you will have the opportunity to submit a portfolio.

First-year admitted students must submit their reclassification request through the Office of General Studies.

Second-year students and beyond must submit their reclassification request through the Registrar's Office.

Readmission

Submit an application to the School of Architecture by the deadline indicated each year.

Have completed at least 12 credits with the GPA required by the School for the year in which you are applying.

If you are a student at the Río Piedras Campus, submit a Readmission Application through the Registrar's Office.

If you were a student within the UPR System and graduated, you may apply for readmission through the Río Piedras Campus Office, but you must request your transcripts from your previous unit.

If you do not meet the required GPA for that year, you will have the opportunity to submit a portfolio.

Graduation Requirements

Candidates for the Bachelor's Degree in Environmental Design must complete the 131 credits required by the curriculum with a GPA of no less than 2.00.

ACADEMIC PROGRAMS

BACHELOR IN ENVIRONMENTAL DESIGN

First Year – First Semester	Credits	First Year – Second Semester	Credits
ARQU 3131 – Fundamentals of Design I	5	ARQU 3132 – Fundamentals of Design II	5
ARQU 3121 – Introduction to Architecture I	3	ARQU 4321 – Structures I	3
ARQU 3615 – Architectural Representation and Visualization	3	ARQU 4311 – Technology I	3
ARQU 3046 – Mathematics II*	4	ARQU 3016 – Visual Communication	2
Humanities	3	Humanities	3
Total	18	Total	16
Second Year – First Semester	Credits	Second Year – Second Semester	Credits
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 4322 – Structures II	3	ARQU 4145 – Research Techniques in Architecture	2
ARQU 4312 – Technology II	3	Visual Communication Elective	3

Social Sciences	3	Social Sciences	3
Total	17	Total	16

Third Year – First Semester	Credits	Third Year – Second Semester	Credits
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 in Puerto Rico	3
ARQU 4323 – Structures III	3	Spanish	3
ARQU 4313 – Technology III	3	English	3
Spanish	3		
Total	17	Total	14
Fourth Year – First Semester	Credits	Fourth Year – Second Semester	Credits
ARQU 4135 – Advanced Architectural Design I	5	ARQU 4136 – Advanced Architectural Design II	5
English	3	ARQU 4146 – Theory and Criticism of Architecture	3
Literature	3	Literature	3
Physical Sciences	3	Biological Sciences	3
Free Elective	3	Free Elective	3
Total	17	Total	17

Total Credits Required: 132 Credits

* Course prerequisite requirements may apply.

Minor

MINOR 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

TEACHING FACULTY AND ADMINISTRATIVE PERSONNEL

Faculty Directory

- Ballester Descartes, Carola; MLA, Universidad Politécnica de Puerto Rico, 2010.
- Calzada Acosta, Blanquita; M.Arch., Universidad de Puerto Rico-Río Piedras, 1983.
- Campo Urrutia, María M.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2010; Catedrática.
- Cavallín Calanche, Humberto E.; Ph.D., University of California-Berkeley, 2006; Catedrático.
- Daza Duarte, Luis G.; Eng.D., Universidad de Puerto Rico-Mayagüez, 1996; Catedrático.
- Fúster Félix, Nathaniel; D.Arch., Harvard University, 1999; Catedrático.
- Georas Santos, Anna L.; Ph.D., Universidad Complutense, 2015; Catedrática.
- González Ríos, Anixa; M.Arch., Ohio State University, 2000.
- González Torres, Nathalie; M.A., Universidad de Puerto Rico-Río Piedras, 2013; Bibliotecaria II.
- Isado Vigil, Javier; M.Arch., Universidad Politécnica de Cataluña, 1999; Catedrático Auxiliar.
- Jiménez Montano, Mayra; Ph.D., Universidad de Granada, 2017.
- Lizardi Pollock, Jorge L.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2002; Catedrático.
- Martínez Joffre, Elio S.; M.Arch., Instituto Tecnológico de Monterrey, 1980; Catedrático.
- Muñiz Rivera, Pedro A.; Ph.D., Virginia Polytechnic Institute, 1985; Catedrático.
- Penabad Sánchez, Juan C.; M.Arch., Yale University, 1989; Catedrático Auxiliar.
- Planas Casado, Robin; M.Arch., Universidad de Puerto Rico-Río Piedras, 2007.
- Ramos Ramírez, Regner; Ph.D., Bartlett School of Architecture, 2016; Catedrático Asociado.
- Rodríguez Matos, Ernesto F.; M.Arch., Massachusetts Institute of Technology, 1996.
- Sennyey Halasz, Esteban; M.Arch., Cornell University, 1982; Catedrático.

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 lecture hours; three credits.

Concurrent requirement: ARQU 3121 – Introduction to Architecture I.

Study of visual abstraction based on imagery related to architecture and its meanings. Emphasis is placed on graphic composition through the analysis, transformation, and 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.

ARQU 3018 - Oriented Research Workshop

of the Chosen area and

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.

ARQU 3019 - Introduction to Landscape Architecture

of the

Chosen area and

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 o 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 o 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 language.

middle of

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 language.

middle of

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, insolation, 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

yvectors. 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. Correquisite: 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. Correquisite: 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. Correquisite: 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. Correquisite: 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.

COLLEGE OF BUSINESS ADMINISTRATION

Webpage: https://fae.uprrp.edu
Tel.: (787) 764-0000, ext. 8700
Email: estudiantes.fae@upr.edu
Physical Address: Edificios Ana María O'Neill (AMO) y Juan José Osuna (O)
Postal Address: 15 Ave. Universidad STE 1501 San Juan PR 00925-2535

Administration

Dean: Dr. Rafael Marrero Díaz
Associate Dean: Dra. Arleen Hernández Díaz
Associate Dean of Student Affairs: Sra. Yorimar de Jesús
Associate Dean of Administrative Affairs: Sra. Jessica M. Ayala Álvarez

Department Chairs

Management Department: Dra. Theany Calderón
Office Management Department: Dra. Lucia Conde Martínez
Business Communication Department: Dr. Grisselle Merced
Accounting Department: Prof. Carolina Cubero
Finance Department: Dra. Marta Z. Charrón Vias

Program Coordinators

Statistical Institute and Information Systems: Dra. Katherine G. Franceschi Díaz
Graduate School: Dr. Alex Ruiz Torres
Research Center: Dra. Camille Villafañe Rodríguez
Enlace Career Center: Sra. Magdalena Diaz González

History

The College of Business Administration at the Río Piedras Campus was founded in 1926 under the name College of Commercial Administration. Four years later, it awarded the Bachelor's degree in Commercial Administration to the members of its first graduating class.

In 1927, the Diploma Program in Secretarial Sciences (a two-year course of study) was established. In 1980, it was renamed the Associate Degree in Secretarial Sciences. However, the Academic Senate deactivated the program in 1991–92. The Bachelor's degree in Secretarial Sciences was restructured into the Bachelor's in Office Systems Administration, effective August 1995. In 2015, the program was revised again, introducing the Bachelor of Arts in Office Management.

In 1970, the Graduate School of Business Administration was created, offering the Master's degree in Business Administration. The online iMBA program launched in 2021 with a cohort of 25 students. The Doctoral Program began in 1998, and by August 1999, it welcomed its first cohort of 15 students.

In 1977, the Academic Senate approved a reevaluation of the Management specialization, reorganizing it into three areas: Operations Management, Human Resources Administration, and Marketing.

Currently, the Faculty of Business Administration is composed of the following academic departments: Business Communication, Accounting, Finance, Office Management, Management, the Institute of Statistics and Computerized Information Systems, and the Graduate School of Business Administration. The faculty also includes the Center for Commercial Research and Academic Initiatives (CICIA), which promotes faculty research and publishes the academic

journal *Fórum Empresarial*. The journal features research articles, reviews, and technical-professional articles in its "Praxis" section.

Acreditations and Recognitions

In October 2013, the College of Business Administration (FAE) received accreditation from the Association to Advance Collegiate Schools of Business (AACSB International), becoming the first business school at a public university in Latin America and the Caribbean to earn this prestigious recognition.

Additionally, the Office Management (GEOF) program has been accredited by the Accreditation Council for Business Schools and Programs (ACBSP) since 2009, and the Computerized Information Systems (SICI) program has been accredited by the Accreditation Board for Engineering and Technology (ABET) since 2012.

- **Association to Advance Collegiate Schools of Business (AACSB)** – accredits the Faculty of Business Administration.
- **Accreditation Council for Business Schools and Programs (ACBSP)** – accredits the Office Management (GEOF) Program.
- **Accreditation Board for Engineering and Technology (ABET Inc.)** – accredits the Computerized Information Systems (SICI) Program.

Degrees Offered

The College of Business Administration offers the following degrees:

1. **Bachelor of Business Administration** – General and with majors in:
    a. Human Resources Management
    b. Accounting
    c. Economics
    d. Entrepenuership
    e. Applied Statistics
    f. Finance
    g. Operations and Supply Management
    h. Marketing Management
    i. Computerized Information Systems
2. **Master of Business Administration (MBA)**
3. **Doctor of Philosophy in Business Administration** with a specialization in International Trade.

Student Services

- **Computer Labs** – The college has seven computer labs: Accounting, Statistics/SICI (2), COEM, EGAE, GEOF, and the library.
- **Libraries** – Located on the first and second floors of the Osuna Building.
- **Advising Services** – Provided by the Office of Student Affairs (DAE) in collaboration with academic departments. The Graduate School of Business Administration (EGAE) offers its own advising services.
- **Enlace Program** – Organizes the Job Fair and serves as the liaison with employers for recruitment, internships, and cooperative programs. It also coordinates student exchange programs with international universities.
- **Student Organizations and Recognition** – The DAE supports student organizations and organizes activities to recognize outstanding students.

Admission Requirements

Candidates are selected in descending order based on their Admission Index (IGS) until either the minimum required index is reached, or the enrollment capacity is filled—whichever comes first.

Readmission Requirements

All readmission applications are evaluated based on the following criteria:

- Minimum GPA of 2.50
- Completion of a precalculus course with a grade of C or higher
- Availability of space

For students not classified under the Bachelor of Business Administration wishing to enter the program:

- Completion of a precalculus course with a grade of C or higher
- GPA of 2.50 or higher (if the student met the program's IGS requirement for the year they entered the university)
- GPA of 3.00 (if the student did not meet the program's IGS requirement for the year they entered)
- Availability of space

For readmission to the Bachelor of Arts in Office Management:

- Minimum GPA of 2.50
- Availability of space

Additional requirements for students not classified in the Bachelor of Business Administration program who wish to enter:

- Completion of a precalculus course with a grade of C or higher
- GPA of 2.50 or higher (if the student met the IGS requirement for the year of initial admission)
- GPA of 3.00 (if the student did not meet the IGS requirement for the year of initial admission)
- Availability of space

Requirements for readmission to the Bachelor of Arts in Office Management:

- GPA of 2.50 or higher
- Availability of space

Reclassifications *(Students from other schools within the campus)*

Students admitted directly to another bachelor's program who wish to reclassify to the BBA must meet:

- Completion of a precalculus course with a grade of C or higher
- GPA of 2.50 or higher (if the student met the IGS requirement for the year of initial admission)
- GPA of 3.00 (if the student did not meet the IGS requirement for the year of initial admission)
- Availability of space

Requirements for reclassification to the Bachelor of Arts in Office Management:

- GPA of 2.50 or higher (if the student met the IGS requirement for the year of initial admission)
- GPA of 3.00 (if the student did not meet the IGS requirement for the year of initial admission)

- Availability of space

Transfers *(Students from other campuses within the University of Puerto Rico system)*

Requirements for transfer to the Bachelor of Business Administration:

- Completion of at least 30 credits
- Completion of a precalculus course with a grade of C or higher
- GPA of 2.50 or higher (if the student met the IGS requirement for the year of initial admission)
- GPA of 3.00 (if the student did not meet the IGS requirement for the year of initial admission)
- Availability of space

Requirements for transfer to the Bachelor of Arts in Office Management:

- Completion of 30 credits
- GPA of 2.50 or higher
- Availability of space

Important: If admitted, the student will follow the course sequences in effect at the time of admission to the requested program.

Transfers *(Students from private universities)*

Requirements for transfer to the Bachelor of Business Administration:

- Completion of 30 credits
- Completion of a precalculus course with a grade of C or higher
- GPA of 3.25 or higher
- Availability of space

Requirements for transfer to the Bachelor of Arts in Office Management:

- Completion of 30 credits
- GPA of 3.25 or higher
- Availability of space

Graduation Requirements

To qualify for graduation, students in the Faculty of Business Administration must meet the following:

- **Graduation GPA** – A minimum GPA of 2.00 in prescribed courses for the chosen program, and a minimum GPA of 2.00 in major courses
- **Official Graduation Application** – Must be submitted to the Registrar during the registration period of the semester in which academic requirements will be completed, and no later than the dates specified in the academic calendar. Applications submitted at the beginning of the academic year (August) are valid through the end of the following summer session. For summer graduation, the application must be submitted on the day of registration. This fee is non-refundable.

ACADEMIC PROGRAMS

BACHELOR OF BUSINESS ADMINISTRATION - GENERAL PROGRAM

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA English I	3	ESPA English II	3
ENGLISH English I	3	ENGLISH English II	3
MECU 3031 - Quantitative Methods for Business Administration I	3	MECU 3032 - Quantitative Methods for Business Administration II	3
ECON 3021 - Principles of Microeconomics	3	SICI 3211 - Introduction to Information Systems	3
ADMI 4005 - Introduction to Management and Business	3	ECON 3022 - Principles of Macroeconomics	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CISO 3121 Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
CONT 3105 - Introduction to the Fundamentals of Accounting I	3	CONT 3106 - Introduction to the Fundamentals of Accounting II	3
ESTA 3041 - Statistics for Business Administration I, or ESTA 3045	3	ESTA 3042 - Statistics for Business Administration II, or ESTA 3045	3
MERC 3115 - Principles of Marketing	3	Free elective	3
COEM 3001 Business Communication in Spanish I	3	GEOP 4315 - Operations and Materials Management	3
REHU 4405 - Human Resource Management, or REHU 4408 - Organizational Conduct, or ADMI 4415 - Leadership	3		

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
HUMA Humanities I	3	HUMA Humanities II	3
LITE Literature I	3	LITE Literature II	3
FINA 3107 - Financial Markets and Institutions	3	FINA 3106 - Financial Management	3
LEGA 4005 - Legal Aspects of Business	3	INCO 4010 - Strategic Business Report Writing and Oral Communication in a Diverse Changing Society	4
Directed Elective	3	Directed Elective	3
Directed Elective	3	Free elective	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI/CIFI Biological/Physical Sciences	3	CIBI/CIFI Biological/Physical Sciences	3
ADMI 4416 - Business Ethics	3	ADMI 4007 Strategic Management	3
Free elective	3	ART Arts	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3

TOTAL CREDITS 130

Directed electives (9 crs.): Choose from the following courses in consultation with the program's Academic Advisor.

GEOP 4336	DEME 4006
GEOP 4009	ESEM 5009
ADMI 4006	ESTA 4001
ADMI 4010	ESTA 4368
ADMI 4035	FINA 4025
ADMI 4045	FINA 4037
ADMI 4050	FINA 4039
ADMI 4075	FINA 4065
ADMI 4225	GEOP 4316
ADMI 4226	GEOP 5320
ADMI 4450	MERC 4028
ADMI 4455	MERC 4128
ADMI 4991	REHU 4405
ADMI 4998	REHU 4408
CONT 4001	REHU 4409
CONT 4002	REHU 4419
CONT 4003	SICI 3255
CONT 4125	

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN FINANCE

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA English I	3	ESPA English II	3
ECON 3021 - Principles of Microeconomics	3	ECON 3022 - Principles of Macroeconomics	3
MECU 3031 - Quantitative Methods for Business Administration I	3	MECU 3032 - Quantitative Methods for Business Administration II	3
CONT 3105 - Introduction to the Fundamentals of Accounting I	3	CONT 3106 - Introduction to the Fundamentals of Accounting II	3
ADMI 4005 - Introduction to Management and Business	3	SICI 3211 - Fundamentals of Information Systems	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ENGLISH English I	3	ENGLISH English II	3

FINA 3107 - Financial Markets and Institutions	3	FINA 3106 - Financial Management	3
ESTA 3041 - Statistics for Business Administration I	3	ESTA 3042 - Statistics for Business Administration II	3
MERC 3115 - Principles of Marketing	3	ART Arts	3
COEM 3001 - Business Communication in Spanish I	3	GEOP 4315 - Introduction to Operations and Materials Management	3
REHU 4405 - Human Resource Management, or REHU 4408 - Organizational Conduct, or ADMI 4415 - Leadership	3		

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
HUMA Humanities I	3	HUMA Humanities II	3
LITE Literature I	3	LITE Literature II	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
ADMI 4416 - Business Ethics	3	FINA 4137 - Investment Principles	3
LEGA 4005 - Legal Aspects of Business	3	INCO 4010 - Strategic Business Report Writing and Oral Communication in a Diverse Changing Society	3
FINA 4125 - Intermediate Financial Management	3	Free elective	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI/CIFI Biological/Physical Sciences	3	CIBI/CIFI Biological/Physical Sciences	3
Directed Elective	3	ADMI 4007 - Strategic Management	3
Free elective	3	Directed Elective	3
Directed Elective	3	Free elective	3
ADMI 3901 - Entrepreneurship, Innovation and Business Models	3	FINA 4145 - Comprehensive Seminar in Finance	3

TOTAL CREDITS 130

FINANCE: Students interested in pursuing the general degree in Finance must take FINA 4125, FINA 4137, and FINA 4145. In addition, they will be required to take 9 credits in directed selection courses from courses in any area of emphasis or from the list of directed selection courses.

FINA3400 359

FINA 4057 FINA 4006 FINA 4015 FINA 4016

FINA 4005

FINA 4059 FINA 4066 FINA 4067 FINA 4018 FINA 4019

FINA 4068 FINA 4991 FINA 4020 FINA 4038

FINA 4240

Area of Emphasis
Financial Management
Elective I: FINA 4225 - International Financial Management (3 crs.)
Elective II: (choose 1)
FINA 4165 - SME Financial Management (3 crs.)
FINA 5025 - Finance for Entrepreneurs (3 crs.)
FINA 4125 - NPO Financial Management (3 crs.) Investments

Elective I: FINA 4149 - Investment Portfolio Management (3 crs.)
Elective II: (choose 1)
FINA 4130 - Valuation of companies (3 crs.)
FINA 4138 - Derivatives Market (3 crs.)
FINA 4270 - Behavioral Finance (3 crs.) III. Risk Management

Elective I: FINA 4066 Risk Management (3 crs.)
Elective II: (choose 1)
FINA 4015 Banking Administration (3 crs.)
FINA 4005 Life and Health Insurance (3 crs.)
FINA 4006 Property and Contingency Insurance (3 crs.) IV. Financial Planning
Elective I: FINA 4305 Advanced Personal Financial Planning (3 crs.)
Elective II: (choose 1)
FINA 4240 Retirement Financial Planning and Benefits (3 crs.)
Directed electives:
FINA 5995 Seminar on Contemporary Issues in Finance (1 to 3 crs.)
FINA 4016 Real Estate (3 crs.)
FINA 4020 International Finance (3 crs.)
FINA 4991 Experience in Cooperative Education I (1 to 3 crs.)

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN ACCOUNTING

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA English I	3	ESPA English II	3
ENGLISH Basic English I	3	ENGLISH Basic English II	3
MECU 3031 - Quantitative Methods for Business Administration I	3	MECU 3032 - Quantitative Methods for Business Administration II	3
CONT 3105 - Introduction to the Fundamentals of Accounting I	3	CONT 3106 - Introduction to the Fundamentals of Accounting II	3
ADMI 4005 - Introduction to Management and Business	3	ECON 3022 - Principles of Economics II	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
FINA 3107 - Financial Markets and Institutions	3	FINA 3106 - Financial Management	3
ECON 3021 - Principles of Economics I	3	SICI 3211 - Fundamentals of Information Systems	3
ESTA 3041 - Statistics for Business Administration I	3	ESTA 3042 - Statistics for Business Administration II	3
MERC 3115 - Principles of Marketing	3	REHU 4405 - Human Resource Management, or REHU 4408 - Organizational Conduct, or ADMI - 4415 Leadership	3
CONT 4001 - Philosophy, Theory, and Problems of Accounting I	3	CONT 4002 - Philosophy, Theory, and Problems of Financial Accounting II	3
COEM 3001 - Business Communication in Spanish I	3		

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CONT 4125 - Cost Accounting, or CONT 4006 - Management Accounting	3	CONT 4079 - Tax Aspects of Corporations and Conduit Entities	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI/CIFI Biological/Physical Sciences	3	CIBI/CIFI Biological/Physical Sciences	3
ADMI 4416 - Business Ethics	3	ADMI 4007 - Strategic Management	3
Free elective	3	ART	3
Directed Elective	3	Free elective	3
ADMI 4236 - Foreign Trade of P.R., FINA 4020 - International Finance, CONT 4029 - International Accounting	3	CONT 4017 - Theory and Principles of Audit of Accounts and Systems (Auditing)	3

TOTAL CREDITS 130

Directed electives (3 crs.): Choose from the following courses in consultation with the Department Director.

CONT 4003	CONT 5400
CONT 4058	CONT 4245
CONT 4059	CONT 4997
CONT 4027	CONT 5015
CONT 4057	CONT 4076

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN ECONOMICS

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA English I	3	ESPA English II	3
ENGLISH Basic English I	3	ENGLISH Basic English II	3
MECU 3031 - Quantitative Methods for Business Administration I	3	MECU 3032 - Quantitative Methods for Business Administration II	3
CONT 3105 - Introduction to the Fundamentals of Accounting I	3	CONT 3106 - Introduction to the Fundamentals of Accounting II	3
ADMI 4005 - Introduction to Management and Business	3	ECON 3021 - Principles of Economics I	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CISO 3121 - Introduction to	3	CISO 3122 - Introduction to Social	3
Social Sciences I		Sciences II	

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ECON 3022 - Principles of Economics II	3	ECON 4381 - Interim Macroeconomic Analysis	3
ESTA 3041 - Statistics for Business Administration I	3	ESTA 3042 - Statistics for Business Administration II	3
MERC 3115 - Principles of Marketing	3	Free elective	3
COEM 3001 - Business Communication in Spanish I	3	REHU 4405 - Human Resource Management, or REHU 4408 - Organizational Conduct, or ADMI - 4415 Leadership	3
SICI 3211 - Fundamentals of Information Systems	3		

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
HUMA Humanities I	3	HUMA Humanities II	3
LITE Literature I	3	LITE Literature II	3
FINA 3106 - Financial Management	3	FINA 3106 - Financial Management	3
ECON 4382 - Interim Macroeconomic Analysis	3	Directed Elective	3
LEGA 4005 - Legal Aspects of Business	3	INCO 4010 - Strategic Business Report Writing and Oral Communication in a Diverse Changing Society	3
GEOP 4315 - Operations and Materials Management	3	Free elective	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI/CIFI Biological/Physical Sciences	3	CIBI/CIFI Biological/Physical Sciences	3
ADMI 4416 - Business Ethics	3	ADMI 4007 - Strategic Management	3
Free elective	3	Directed Elective	3
Directed Elective	3	ART Arts	3
ADMI 4236 - Foreign Trade of P.R.	3	FINA 4001 - Seminar on Applied Economic, Managerial and Financial Analysis	3

TOTAL CREDITS 130

Targeted Electives: Options to Choose From

Courses Offered by the Department of Economics

Faculty of Social Sciences (3 credits each)

Students may select from the following Economics courses:

- ECON 4015
- ECON 4055
- ECON 4087
- ECON 4105
- ECON 4121
- ECON 4122
- ECON 4165
- ECON 4185
- ECON 4195
- ECON 4205
- ECON 4215
- ECON 4265
- ECON 4305
- ECON 4326
- ECON 4335
- ECON 4345
- ECON 4355
- ECON 4376
- ECON 4385
- ECON 4415
- ECON 5010
- ECON XXX (Special Topics, as approved)

Credit Value: 3 credits per course.

Courses offered by the Department of Finance, FAE (3crs.)

FINE 4020 FINE
4015
FINE 4065 FINE

4066
FINE 4125
FINE 4130
FINE 4225
FINE 4305
FINE 4991

Courses offered by the Department of Management, FAE (3 crs.) ADMI 4225
Courses offered by the Department of Accounting,

FAE (3crs.) CONT 4029
Courses offered by the Institute of Statistics and CC. of Computing, FAE (3crs.)
ESTA 4206
ESTA 4501
MECU 4006
MECU 5001
Courses offered by the Department of Mathematics, Faculty of Natural Sciences MATE 3152 (4crs) M AT E 4031(3crs) M AT E 4045(3crs)

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN HUMAN RESOURCE MANAGEMENT

First Year – First Semester	Credits	First Year – Second Semester	Credits
ESPA[1] – Spanish I*	3	ESPA[1] – Spanish II*	3
INGL[2] – English I*	3	INGL[2] – English II*	3
MECU 3031** – Quantitative Methods for Business Administration I*	3	MECU 3032** – Quantitative Methods for Business Administration II*	3
ECON 3021 – Principles of Microeconomics	3	ECON 3022 – Principles of Macroeconomics	3
ADMI 4005 – Introduction to Business	3	ADMI 3901 – Entrepreneurship, Innovation, and Business Models	3
Total	15	Total	15
Second Year – First Semester	Credits	Second Year – Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
CONT 3105 – Introduction to the Fundamentals of Accounting I	3	CONT 3106 – Introduction to the Fundamentals of Accounting II	3
ESTA 3041 – Statistics and Data Analytics for Business Administration I or ESTA 3035 – Business Statistics	3	ESTA 3042 – Statistics for Business Administration II or ESTA 3045 – Introduction to Statistics for Business Administration	3
MERC 3115 – Principles of Marketing	3	REHU 4405 – Human Resource Management or REHU 4408 – Organizational Behavior	3

REHU 4405 – Human Resource Management, REHU 4408 – Organizational Behavior or ADMI 4415 – Leadership	3	REHU 4407 – Compensation Systems	3
COEM 3001 – Business Communication	3		
Total	18	Total	15

Third Year – First Semester	Credits	Third Year – Second Semester	Credits
HUMA[3] – Humanities I	3	HUMA[3] – Humanities II	3
LITE[4] – Literature I	3	LITE[4] – Literature II	3
FINA 3107 – Financial Markets and Institutions	3	FINA 3106 – Financial Management	3
GEOP 4315 – Introduction to Operations and Supply Management	3	REHU 4419 – Labor Legislation and Jurisprudence	3
LEGA 4005 – Legal Aspects of Business	3	SICI 3211 – Fundamentals of Information Systems	3
Free Elective	3	INCO 4010 – Strategic Business Report Writing and Oral Communication in a Diverse and Changing Society	4
Total	18	Total	19
Fourth Year – First Semester	Credits	Fourth Year – Second Semester	Credits
CIBI/CIFI[5] – Biological or Physical Sciences	3	CIBI/CIFI[5] – Biological or Physical Sciences	3
ADMI 4416 – Business Ethics	3	ADMI 4007 – Strategic Management	3
REHU 4436 – Recruitment and Selection of Employees, or REHU 4337 – Employee Training and Development, or REHU 4450 – Internship in Human Resource Management	3	ARTE[6] – Arts	3
Directed Elective	3	Directed Elective	3
Free Elective	3	Free Elective	3
Total	15	Total	15

Total Credits Required: 130

Notes

* Placement in Spanish, English, and Mathematics courses depends on College Board scores.

** Course includes laboratory components.

[1] Spanish requirement

[2] English requirement

[3] Humanities requirement

[4] Literature requirement

[5] Biological or Physical Sciences requirement

[6] Arts requirement

Directed electives (6 crs.): Choose from the following courses in consultation with the Academic Advisor of the major.

ADMI 4010	REHU 5001
ADMI 4035	REHU 4415
ADMI 4050	REHU 4418
ECON 4365	REHU 4435
MERC 4129	REHU 4436
REHU 4406	REHU 4437
REHU 4409	REHU 4450
ADMI 4415	REHU 4998
PSIC 3005	RELA 3025

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN APPLIED STATISTICS

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA English I	3	ESPA English II	3
ENGLISH Basic English I	3	ENGLISH Basic English II	3
MECU 3031 - Quantitative Methods for Business Administration I	3	MECU 3032 - Quantitative Methods for Business Administration II	3
ECON 3021 - Principles of Microeconomics	3	ECON 3022 - Principles of Macroeconomics	3
SICI 3211 - Fundamentals of Information Systems	3	ADMI 4005 - Introduction to Business Management	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
CONT 3105 - Introduction to the Fundamentals of Accounting I	3	CONT 3106 - Introduction to the Fundamentals of Accounting II	3
ESTA 3041 - Statistics for Business Administration I, or ESTA 3045	3	ESTA 3042 - Statistics for Business Administration II, or ESTA 3045	3
ART Arts	3	MERC 3115 Principles of Marketing	3
COEM 3001 - Business Communication in Spanish I	3	INCO 4010 - Strategic Business Report Writing and Oral Communication in a Diverse Changing Society	3
REHU 4405 - Human Resource Management, or REHU 4408 - Organizational Conduct, or ADMI 4415 - Leadership	3	MECU 3004 - Quantitative Methods IV	3

THIRD YEAR

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI/CIFI Biological/Physical Sciences	3	CIBI/CIFI Biological/Physical Sciences	3
ADMI 4416 - Business Ethics	3	ADMI 4007 - Strategic Management	3
Free elective	3	ART Arts	3
ESTA 5503 - Applied Multivariate Analysis	3	Free elective	3
Free elective	3	ADMI 3901 - Entrepreneurship, Innovation and Business Model	3
LEGA 4005 - Legal Aspects of Business 3	3	ESTA 5504 - Data Mining	3

TOTAL CREDITS 130

Directed electives (3 credits): Choose three credits from the following courses in consultation with the Academic Advisor of the major.

AREAS OF APPLICATION

Statistics

ESTA 3050 Introduction to Statistical Computing
ESTA 4001 Intermediate Statistical Theory I
ESTA 4008 Research Seminar
ESTA 4206 SAS Applications in Data Analysis
ESTA 4369 Design of Experiments
ESTA 4998 Cooperative Education Experience

Computerized Information Systems

SICI 3255 Application Programming
SICI 4015 Physical design and implementation using databases
SICI 4215 - Business Analytical Intelligence

Accounting

CONT 4017 - Theory and Problems of Account and Systems Intervention
CONT 4057 - Accounting Information Systems

Operations Management

GEOP 4318 - Quality Control Management
GEOP 4336 - Decision Making in Inventory Planning and Control

Marketing

MERC 4227 - Marketing Research

Quantitative Methods

MECU 4001 - Quantitative Methods for Business Administration IV
MECU 5001 - Quantitative Methods for Finance and Economics I

Finance

FINA 4001: Seminar on Applied Economic, Management and Financial Analysis
FINA 4066 - Risk Management

FINA 4130 - Business Valuation
FINA 4137 - Investments
FINA 4149 - Investment Portfolio Management
FINA 4138 - Derivatives Market
FINA 4270 - Behavioral Finance

Anthropology

ANTR 4002	Demographic Anthropology
ANTR 4097	Field Archaeology

Political science

CIPO 4306	Policy Research Theory

Economy
ECON 4035 - The Computer in Economic Analysis

ECON 4265	Input Output Analysis

ECON 4271 and 4272 - Applied Economic Analysis
ECON 4335 - Industrial Organization: Market Structure

ECON 4381	Intermediate Microeconomic Analysis
ECON 4382	Interim Macroeconomic Analysis
ECON 4355	Introduction to Econometrics

ECON 4416 - Seminar: Methods of Economic Research

Geography
GEOG 3475 - Introduction to Geographic Information Systems
GEOG 3915 - Advanced Geographic Information Systems

Psychology
PSIC 4001 - Research Methodology in Psychology I
PSIC 4002 - Research Methodology in Psychology II

Sociology

SOCI 3267	Sociological Research Techniques
SOCI 4187	Sociological Research Methods

Biology

BIOL 3349	Genetics
BIOL 4360	Introduction to Molecular Bioinformatics

Environmental Sciences
CINA 4995 - Remote Sensing
Computer Science

CCOM 3030	Fundamental Structures of Computer Science
CCOM 3033	Introduction to Problem Solving with Programming
CCOM 3034	Data Structures
CCOM 4027	Introduction to Data Management

CCOM 4029 High Level Programming Languages
CCOM 4030 - Introduction to Software Engineering
CCOM 4995 - Data Science
CCOM 5035 Computability Theory
CCOM 5050 Design and Analysis of Algorithms
CCOM 5045 - Introduction to Computational Cell Biology
CCOM 5060 Parallel Processing

Physics
FISI 4031 - Methods of Mathematical Physics I
FISI 4032 - Methods of Mathematical Physics II
FISI 4057 - Thermodynamics and Statistical Mechanics
FISI 4046 - Quantum Mechanics

Mathematics
MATE 3152 - Calculus II
MATE 3153 - Calculation III
MATE 4009 - Differential Equations
MATE 4031 - Linear Algebra
MATE 4045 - Partial Differential Equations
MATE 4061 - Numerical Analysis I
MATE 4062 - Numerical Analysis II
MATE 5001 - Probability
MATE 5002 - Statistics
MATE 5201 - Advanced Calculation

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN COMPUTERIZED INFORMATION SYSTEMS

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA English I	3	ESPA English II	3
SICI 3211 - Fundamentals of Information Systems	3	ECON 3022 - Principles of Economics II	3
MECU 3031 - Quantitative Methods for Business Administration I	3	MECU 3032 - Quantitative Methods for Business Administration II	3
ECON 3021 - Principles of Economics I	3	MERC 3115 - Principles of Economics II	3
ADMI 4005 - Introduction to Business Management	3	SICI 3255 - Application Programming	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CONT 3105 - Introduction to the Fundamentals of Accounting I	3	CONT 3106 - Introduction to the Fundamentals of Accounting II	3

SICI 4025 - Analysis and Logical Design of Systems	3	SICI 4015 - Physical Design and Implementation of Systems	3
ESTA 3041 - Statistics and Data Analytics for Business Administration I, or ESTA 3045	3	ESTA 3042 - Business Administration Statistics II, or ESTA 3045	3
Free elective	3	ENGLISH English II	3
COEM 3001 - Business Communication in Spanish I	3	SICI 3245 - Technological Infrastructure for Information Systems	3
ENGLISH English I	3		

THIRD YEAR
FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI/CIFI Biological/Physical Sciences	3	CIBI/CIFI Biological/Physical Sciences	3
LEGA 4005 - Legal Aspects of Business	3	ADMI 4007 - Strategic Management	3
ART Arts	3	Elective at SICI	3
SICI 4278 - Project Management and Administrative Aspects of Systems	3	ADMI 4417 - Business Ethics and its Application to Computerized Information Systems	3
INCO 4010 - Strategic Business Report Writing and Oral Communication in a Diverse Changing Society	3	SICI 4275 - System Controls and Security	3
		Free Elective	3

TOTAL CREDITS 130

Directed electives (3 credits): Choose three credits from the following courses in consultation with the Academic Advisor of the major.

SICI 4215 SICI 5015 SICI 4465 SICI 4998
4285
SICI 4405
SICI 5250

NOTE: SICI 4465 is considered a free elective for students in other majors.

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN OPERATIONS AND SUPPLY MANAGEMENT

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA Spanish Basic I	3	ESPA Basic Spanish II	3
ENGLISH Basic English I	3	ENGLISH Basic English II	3

MECU 3031 - Quantitative Methods for Business Administration I	3	MECU 3032 - Quantitative Methods for Business Administration II	3
ECON 3021 - Principles of Microeconomics	3	ECON 3022 - Principles of Macroeconomics	3
ADMI 4005 - Introduction to Business Management	3	SICI 3211 - Introduction to Information Systems	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
CONT 3105 - Introduction to the Fundamentals of Accounting I	3	CONT 3106 - Introduction to the Fundamentals of Accounting II	3
ESTA 3041 - Statistics for Business Administration I, or ESTA 3045	3	ESTA 3042 - Statistics for Business Administration II, or ESTA 3045	3
GEOP 4315 - Operations and Supply Management	3	MERC 3115 - Principles of Marketing	3
COEM 3001 - Business Communication in Spanish I	3	GEOP 4316 - Lean Sigma and Productivity Systems	3
REHU 4405 - Human Resource Management, or REHU 4408 - Organizational Conduct, or ADMI - 4415 Leadership	3		

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
GEOP 4335 - Purchasing Management	3	GEOP 4336 - Inventory Management	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI/CIFI Biological/Physical Sciences	3	CIBI/CIFI Biological/Physical Sciences	3
ADMI 4416 - Business Ethics	3	ADMI 4007 - Strategic Management	3
Free elective	3	ART Arts	3
Directed Elective	3	Free elective	3
ADMI 4236 - Foreign Trade of P.R., FINA 4020 - International Finance, CONT 4029 - International Accounting	3	Directed Elective	3

TOTAL CREDITS 130

Directed Electives (6 Credits)

Students must complete 6 credits of directed electives selected in consultation with the Academic Advisor for the Human Resource Management major.

Students may choose from the following courses:

GEOP 4009
GEOP 4315
GEOP 4318
GEOP 4319
GEOP 4345
GEOP 4355
GEOP 4998
GEOP 5320
ESTA 3041 – Statistics and Data Analytics for Business Administration I
ESTA 3045 – Introduction to Statistics for Business Administration
Total Required Directed Electives: 6 credits.

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN MARKETING MANAGEMENT

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA Spanish Basic I	3	ESPA Basic Spanish II	3
ENGLISH Basic English I	3	ENGLISH Basic English II	3
MECU 3031 - Quantitative Methods for Business Administration I	3	MECU 3032 - Quantitative Methods for Business Administration II	3
ECON 3021 - Principles of Microeconomics	3	MERC 3115 - Principles of Marketing	3
ADMI 4005 - Introduction to Business Management	3	ECON 3022 - Principles of Macroeconomics	3

SECOND YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
SICI 3211 - Fundamentals of Information Systems	3	GEOP 4315 - Operations and Materials Management	3
ESTA 3041 - Statistics for Business Administration I, or ESTA 3045	3	ESTA 3042 - Statistics for Business Administration II, or ESTA 3045	3
CONT 3105 - Introduction to the Fundamentals of Accounting I	3	MERC 4010 - Consumer Conduct	3
COEM 3001 - Business Communication in Spanish I	3	CONT 3106 - Introduction to the Fundamentals of Accounting II	3
REHU 4405 - Human Resource Management, or REHU 4408 - Organizational Conduct, or ADMI - 4415 Leadership	3		

THIRD YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
LEGA 4005 - Legal Aspects of Business	3	Directed Elective	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
CIBI/CIFI Biological/Physical Sciences	3	CIBI/CIFI Biological/Physical Sciences	3
ADMI 4416 - Business Ethics	3	ADMI 4007 - Strategic Management	3
Free elective	3	ART Arts	3
MERC 4219 - Strategic Marketing Management	3	Free elective	3
ADMI 4236 - Foreign Trade of P.R., FINA 4020 - International Finance, CONT 4029 - International Accounting	3	Directed Elective	3

TOTAL CREDITS 130

Directed electives (6 crs.): Choose from the following courses in consultation with the Academic Advisor of the major.

MERC 4128, MERC 4025, MERC 4027, MERC 4028,
MERC 4115, MERC 4129, MERC 4130, MERC 4226,
MERC 4235, MERC 4998, MERC 4215 or ADMI 4991,
MERC 4216, MERC 5995, ADMI 4010

BACHELOR OF BUSINESS ADMINISTRATION WITH A MAJOR IN ENTREPRENEURSHIP

(For students admitted to the Faculty beginning August 2022)

First Year

First Semester	Credits	Second Semester	Credits
ESPA[1] – Spanish I*	3	ESPA[1] – Spanish II*	3
INGL[2] – English I*	3	INGL[2] – English II*	3
MECU 3031** – Quantitative Methods for Business Administration I*	3	MECU 3032** – Quantitative Methods for Business Administration II*	3
ECON 3021 – Principles of Microeconomics	3	ECON 3022 – Principles of Macroeconomics	3
ADMI 4005 – Introduction to Management and Business	3	ADMI 3901 – Entrepreneurship, Innovation, and Business Models	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits

CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
CONT 3105** – Introduction to the Fundamentals of Accounting I	3	CONT 3106** – Introduction to the Fundamentals of Accounting II	3
ESTA 3041 or ESTA 3045≠ – Business Statistics I or Business Statistics	3	ESTA 3042 or ESTA 3045≠ – Business Statistics II or Business Statistics	3
MERC 3115 – Principles of Marketing	3	ADMI 4010 – Planning and Organization of New Ventures	3
REHU 4405≠ – Human Resource Management, or REHU 4408≠ – Organizational Behavior, or ADMI 4415≠ – Leadership	3	GEOP 4315 – Operations and Materials Management	3
LEGA 4005 – Legal Aspects of Business	3		
Total	**18**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
HUMA[3] – Humanities I	3	HUMA[3] – Humanities II	3
LITE[4] – Literature I	3	LITE[4] – Literature II	3
FINA 3107 – Financial Markets and Institutions	3	FINA 3106 – Financial Management	3
ADMI 4035 – Small Business Management	3	SICI 3211 – Introduction to Information Systems	3
COEM 3001 – Business Communication	3	Free Elective	3
Directed Elective	3	INCO 4010 – Strategic Business Report Writing and Oral Communication in a Diverse and Changing Society	4
Total	**18**	**Total**	**19**

Fourth Year

First Semester	Credits	Second Semester	Credits
CIBI/CIFI[5] – Biological or Physical Sciences	3	CIBI/CIFI[5] – Biological or Physical Sciences	3
ADMI 4416 – Business Ethics	3	ADMI 4007 – Strategic Management	3
Directed Elective	3	ARTE[6] – Arts	3
Directed Elective	3	Directed Elective	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Total Credits: 130

Notes

Placement in Spanish, English, and Mathematics courses depends on College Board scores.
** Includes laboratory sessions.
[1] Spanish Requirement
[2] English Requirement
[3] Humanities Requirement
[4] Literature Requirement
[5] Biological or Physical Sciences Requirement
[6] Arts Requirement
≠ Student must select the option corresponding to the approved program sequence.

Directed Electives (12 Credits)
Students must complete **12 credits of directed electives**, selected in consultation with the Academic Advisor for the Entrepreneurship major.
Choose from approved directed elective courses identified by the Faculty of Business Administration and the Entrepreneurship major curriculum.

Directed Electives	**Credits**
Approved Directed Elective	3
Approved Directed Elective	3
Approved Directed Elective	3
Approved Directed Elective	3
Total Directed Electives	**12**

Prerequisites: Vary according to the specific elective selected.
Note: Students should consult their Academic Advisor to ensure that elective selections support their academic and professional goals and satisfy the requirements of the Entrepreneurship major.

Course Code	Course Title (English)	Prerequisites
ADMI 4050	Principles of Management Consulting	ADMI 4005, MERC 3115, FINA 3106
ADMI 4110	Social Entrepreneurship and Volunteerism	—
ADMI 4415	Leadership	ADMI 4005
ADMI 4450	Internship in Management and Entrepreneurship	ADMI 4010, ADMI 4035
ADMI 4998	Cooperative Education Experience in Management and Entrepreneurship	Classified as a second-year student and GPA of 2.5+
ADMI 5990	Seminar on Contemporary Topics in Entrepreneurship	CON 3105, MERC 3115
CONT 4125	Cost Accounting	CONT 3106
CONT 4006	Managerial Accounting	CONT 3106
ESEM 5006	Problems Associated with the Start-up, Development, and Maturity of a Business	FINA 3106, GEOP 4315, MERC 3115, REHU 4405 or REHU 4408 or ADMI 4415
ESEM 5007	Financial Proposal for a New Venture	ADMI 410, FINA 3106
ESEM 5009	Business Development Through Franchising or Acquisitions	FINA 3106
FINA 4065	Finance for Small Businesses	FINA 3106
MERC 4128	Product and Brand Management	MERC 3115

MERC 4129	Services Marketing	MERC 3115
REHU 4405	Human Resource Management	ADMI 4005

TEACHING FACULTY AND ADMINISTRATIVE STAFF

Faculty Directory

Acevedo Vallejo, Alberto; LL.M., New York University of Law, 1984; Catedrático.
Alicea Rivera, Juan Carlos; Ph.D., Universidad de Puerto Rico-Río Piedras, 2005.
Álvarez Burgos, Marta; Ph.D., Universidad de Texas A&M, 1991; Catedrática.
Álvarez Pérez, Gisela; Ph.D., Centro Caribeño de Post Grado; Instructora.
Andino Pratts, Aida.
Aponte García, Maribel; Ph.D., University of Massachusetts, 1991; Catedrática.
Aponte García, Marinés; Ph.D., Universidad Autónoma de Barcelona, 2002; Catedrática.
Ayala Cruz, Jorge; Ph.D., Rensselaer Polytechnic Institute, 1993; Catedrático.
Ayala Godoy, Jairo; Ph.D., Centro de Investigaciones en Matemáticas, A.C.; Catedrático Auxiliar.
Baella Silva, Javier; Ph.D., Universidad de Puerto Rico-Río Piedras, 1992.
Báez Díaz, Aníbal; D.BA, Kent State University, 2004; Catedrático Asociado.
Brotons Gómez, Ana T.
Brown Ewer, Scott M.; Ph.D., University of South Carolina, 2005; Catedrático Asociado.
Cabán Morales, Jeannette; Ed.D., Universidad de Puerto Rico-Río Piedras.
Calderón Abreu Theany; D.BA, Argosy University; Instructora.
Capó Matos, Jorge L.; J.D., Universidad de Puerto Rico-Río Piedras.
Caraballo Cueto, José; Ph.D., The New School for Social Research.
Cardona, Rogelio J.; D.BA, Universidad de Puerto Rico-Río Piedras, 2008; Catedrático Asociado.
Carpenter Palms, Charles
Castrillón Velandia, Oscar; Ed.D., Catedrático Auxiliar
Castro González, Karen; Ph.D., Universidad de Puerto Rico-Río Piedras, 2008; Catedrática Auxiliar.
Castro González, Segundo J.; Ph.D., Universidad de Puerto Rico-Río Piedras.
Charrón Vías, Marta Z.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2007.
Colón Seda, María
Conde Martínez, Lucía; Ph.D., Universidad Interamericana de Puerto Rico.
Cosme Montalvo, Wanda; Ph.D., Universidad de Puerto Rico-Río Piedras, 2015.
Cubero Rivera, Carolina
Espina, Maritza I.; Ph.D., Rensselaer Polytechnic Institute.
Espina Martí, Carmen; D.BA., Argosy University, 2003.
Echevarría Marín, Roberto.
Figueroa Jiménez, Carmen A.; M.BA., University of Dallas, 1990; Catedrática.
Figueroa Rivera, Domingo
Franceschi Díaz, Katherine G.; Ph.D., Florida International University, 2008; Catedrática Auxiliar.
González Díaz, Nanette
González Cerrud, Pedro; Ph.D., Lehigh University, 1993; Catedrático.

González Taboada, José A.; D.BA., Kent State University, 1981; Catedrático.

Guasp Gutiérrez, Iván F.

Gutiérrez Solana, Elsa; M.BA., Universidad de Puerto Rico-Río Piedras, 1979; Catedrática.

Guzmán Merced, Rosa; Ph.D., Universidad de Puerto Rico-Río Piedras, 1996; Catedrática.

Haddock Acevedo, Jorge

Hernández Díaz, Arleen; Ph.D., University of Wisconsin-Madison, 1993; Catedrática.

Hlali, Arbia; Ph.D., University of Sfax.

Huertas Aponte, Maribel; Ed.D., Universidad Interamericana de Puerto Rico, 2003; Catedrática Asociada.

Irizarry Quintero, Anamari; Ph.D. University of Puerto Rico, 2011; Assistant Professor

Jiménez González, Ángel C.

Lebrón Cajigas, Carlos J.; D.BA., Florida Atlantic University, 1996; Catedrático Asociado.

Lobato Vico, Manuel

Longobardi Vergata, Teresa; D.BA., York University, 2003; Catedrática Auxiliar.

López Colón, Jesús; M.BA., Indiana University, 1989

López Palau, Silvia I.; Ph.D., University of Texas, 2006; Catedrática Auxiliar.

Lozada Rivera, Aida R.

Maldonado Medina, Edwin R.; LLM, Georgetown University, 2002; Catedrático Asociado.

Marrero Díaz, Rafael; Ph.D., Universidad de Puerto Rico-Río Piedras, 2013; Catedrático Auxiliar.

Mathews Creque, Dale, Ph.D.

Meléndez Ramos, Grisel; Ed.D., Universidad de Puerto Rico-Río Piedras; Instructora.

Merced Hernández, Grisselle; Ph.D., Centro de Estudios Avanzados de Puerto Rico y el Caribe; Catedrática Auxiliar.

Montañez Miranda, Félix

Nieves González, Aniel; Ph.D., State University of New York-Stony Brook, 2010; Catedrático Asociado.

Nieves Rodríguez, Elsa B.; Ph.D., Universidad de Puerto Rico-Río Piedras.

Orengo Serra, Karen; Ph.D., Université de la Sorbonne, Paris 3, 2000; Catedrática.

Orozco, Juan C.

Pagán Irizarry, Javier F.; Ph.D., State University of New York-Albany, 1998; Catedrático.

Paul, Justin; Ph.D., Indian Institute of Technology -Bombay, 2004; Catedrático Asociado.

Peña Hevia, Juan A.; Ph.D., University of Massachusetts, 2004; Catedrático.

Pérez Ramírez, Rafael; Ph.D., Universidad del Turabo

Pérez Rivera, Myra M.; Ph.D., Florida International University, 1996; Catedrática.

Picón García, Nora

Quiñones Cintrón, Víctor; Ph.D., New York University, 1977; Catedrático.

Ríos Figueroa, Carmen B.; Catedrática.

Ríos Maury, Héctor; Ph.D., Universidad Complutense Madrid, 1989; Catedrático.

Rivera Aponte, Ángel L.; Ph.D., Universidad Interamericana de Puerto Rico, 2005; Catedrático Asociado.

Rivera Cruz, Beatriz; Ph.D., Case Western Reserve University, 2004; Catedrática.

Rivera Nevárez, Delializ

Rivera Valencia, José A.; Ph.D., New York State University, 1992; Catedrático.

Rodríguez Cáez, Desirée
Rodríguez de Díaz, María del R.; M.S., John Hopkins University, 1981; Catedrática.
Rodríguez Marrero, Juanita; Ph.D., Boston University, 1989; Catedrática.
Rodríguez Orellana, María del R.; Catedrática.
Rodríguez Ramírez, Javier; D.BA., University of Houston, 2002; Catedrático.
Rodríguez Torres, Edgardo; Ph.D., Texas Technological University, 1983; Catedrático.
Romero Herminio; Ph.D., Universidad de Puerto Rico-Río Piedras.
Rosario Santos, Angélica
Ruiz Torres, Alex J.; Ph.D., Pennsylvania State University, 1997; Catedrático.
Sánchez Morales, Juan.
Sánchez Morcilio, Rosarito; D.BA., Argosy University, 2005; Catedrática.
Santiago Castro, Marisela; Ph.D., University of Texas-Rio Grande Valley.
Santos Corrada, María; Ph.D., Universidad Complutense de Madrid.
Sepúlveda Trinidad, Sandra; Ph.D., Universidad de Puerto Rico-Río Piedras, 2000; Catedrática.
Serrano Ortiz, Mariluz.
Schindler, Kurt A.
Shehada Hader, Sherean; Ph.D., Universidad de Puerto Rico-Río Piedras.
Torrez MxMannis, Jimmy G.; Ph.D., University of California-Berkeley, 1998; Catedrático.
Torres Núñez, David
Valera Márquez, Juan
Vega Rivera, Maylén
Vega Vilca, José C.; Ph.D., Universidad de Puerto Rico-Mayagüez, 2005; Catedrático.
Velázquez Rosado, Wanda; Ed.D., Universidad de Puerto Rico-Río Piedras, 2003; Catedrática Asociada.
Vélez Ramos, Daiver; Ph.D., Catedrático Auxiliar.
Urrutia Vélez, Zulmarie.

BUSINESS ADMINISTRATION COURSES

ADMI 3901- Entrepreneurship, Innovation and Business Models *Three credits. Two hours of lecture and*
one hour of discussion per week. Prerequisites: CONT 3105, MERC 3115.

Development of an innovative business model using active learning methods and creative thinking. Emphasis on the business idea generation process. The course requires students to present their business model in a competition organized by them. The competition will be open to all students on campus even if they are not enrolled in the course, and participation in the competition will be mandatory for students enrolled in the course. This course will be offered in face-to-face, hybrid, distance and online modalities.

ADMI 4005 - Introduction to Management and Business
Three credits. Two hours of lecture and one hour of discussion per week.

Introduction to the theories, techniques, and concepts that describe business and management systems. The course provides an overview of the global and local business environment, ethical principles and the entrepreneur. It also takes a close look at the essential functions of management, such as planning, controlling, directing, and organizing in business. It provides an interdisciplinary and integrated framework for the study of the functional areas of a business. The course emphasizes learning through the analysis and application of the various

aspects that affect organizational and business activity. The course can be offered in face-to-face, hybrid and online modalities.

ADMI 4007 - Strategic Management

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: GEOP 4315, MERC 3115, FINA 3106, REHU 4405 or ADMI 4415 or SICI 4405.

Introduction to a comprehensive, conceptual and decisional analysis framework to help the company assess its current condition, analyze the environmental forces that affect it, including the competition, and translate this information into objectives and strategies that allow it to compete efficiently in its industry. Emphasis on management's responsibility to formulate programs that keep the company competitive in the long term. The course can be offered in face-to-face, hybrid and online modes.

ADMI 4010 - Planning and Organization of New Businesses Three credits. One hour of lecture and two hours of discussion per week. Prerequisites: CONT 3105, MERC 3115.

Workshop on the study and analysis of opportunities to establish a new business through the development of a business plan. The course can be offered in face-to-face, hybrid and online modes.

ADMI 4035 - Small Business Administration

Three credits. One hour of lecture per week. Prerequisites: ADMI 4405 and CONT 3105 or director's authorization.

Application of principles and methods for the development and operation of small businesses with an entrepreneurial approach.

ADMI 4045 - Public Regulation of Trade

Three credits. Three hours of lecture a week. Prerequisite: ADMI 4005.

Government control over economic activity; their purposes and methods of control. Regulation of initiation into business; types, rates and prices; quality of services; discrimination; monopoly and restricted markets and methods of unfair competition. Controls for depression and emergency cycles. Government subsidies to businesses, public corporations and their operation. The legal and administrative machinery and procedures used to implement public policy. How management should adapt to government regulation will be discussed.

ADMI 4050 - Principles of Management Consulting

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: ADMI 4005, MERC 3115 and CONT 3105 or director's authorization.

Introduction to the nature and purpose of management consulting practice, the variety and scope of management consulting services, the client-consultant relationship, organizational change management, and organizational culture. Emphasis on the responsibility, professionalism and ethics of the management consultant.

ADMI 4110- Social Entrepreneurship and Volunteering

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

It examines the dynamics of creating a company with the mission of creating social value within the "new economy". All the concepts of creation, management and production of a company are explained. Emphasis is placed on the financing models corresponding to the social enterprise, as well as the mediation of the effect and evaluation of the execution of the enterprise. The course promotes innovative and service talent, as well as the models of recruitment and supervision of human resources of this type of company with an emphasis on volunteering. The course can be offered in face-to-face, hybrid and online modes.

ADMI 4225- Principles of International Trade

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: ECON 3005, ADMI 4005

Introduction to the international dimension of trade. Emphasis on participants, theories, and the particularities of international trade.

ADMI 4226 - Regulations and Documentation for Import, Export and International Transactions

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: ADMI 4005, MERC 3115 and ECON 3022.

Study of the practical aspects of the regulation, documentation and financing of exports and imports of goods and services. Emphasis on customs regulations and practices.

ADMI 4236 - Puerto Rico's Foreign Trade

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: ECON 3022.

The course analyzes Puerto Rico's foreign trade with emphasis on the process of identifying market opportunities and designing strategies that enhance the use of identified opportunities. Other key elements of study in this course are to understand the configuration of the business climate in Puerto Rico, as well as the participation of large, medium and small companies. This course is offered in face-to-face, hybrid and online modalities.

ADMI 4415 - Leadership

Three credits. An hour and a half of reading and an hour and a half of discussion a week. Prerequisites: ADMI 4005.

Introduction to theories, concepts, and practices of leadership in three spheres of action: organization, community, and society. It promotes the discussion of the contextualization of leadership, exploring the competencies and skills expected of a leader with moral principles, vision, and ability to motivate, inspire, and stimulate innovation and entrepreneurship in others. The course can be offered in face-to-face, hybrid and online modes.

ADMI 4416 - Business Ethics

Three credits. An hour and a half of discussion and an hour and a half of lecture a week. Prerequisites: CONT3106, MERC 3115, and REHU 4405 or REHU 4408, or REHU 4409 or ADMI 4415.

Philosophical study of morality and its application in business administration. The fundamental principles and models of ethical reasoning are used in decision-making, with an emphasis on the analysis and evaluation of systems, strategies, policies, and business problems. Discussion of the institutionalization of ethics in business to promote ethical conduct. This course is offered in face-to-face, hybrid and online modalities.

ADMI 4417 - Business Ethics and its Application to Computerized Information Systems

Zero credits. One hour 20 minutes of lecture and one hour 80 minutes of

discussion per week. Prerequisite: CONT 3105, MERC 3115, SOCI 4278. Correquisite: SICI 4275.

Fundamentals of business ethics and its application in computerized information systems. The fundamental principles of ethical reasoning are used in business decision-making. This introductory face-to-face course is offered to students of computerized information systems major as a requirement. This course is offered in face-to-face, hybrid and online modalities.

ADMI 4450 - Management Internship

Three credits. Twelve hours of supervised practice per week. Prerequisites: ADMI 4005, MERC 3115, and GEOP 4315; 12 credits from the general program of ADEM; Interview with the coordinating teacher.

Practical experience of the theory and concepts learned about effective management in organizations. Academic advice and supervision in the integration of the student intern into the world of work. It consists of 12 hours per week or 180 hours per semester in a workplace.

ADMI 4455 - Contemporary Issues in International Trade

A credit. Students will be able to repeat this mini-course three times. Three hours of discussion a week. Prerequisite: ADMI 4005.

Introduction to varied and contemporary issues in international trade and their implications in different sectors, both in the industrial and service sectors.

ADMI 4991 - Cooperative Education Experience in International Trade Two to four credits. Supervised practice. The number of hours will depend on the course credit. Prerequisites: 60 credits or more. Minimum GPA of 2.50.

Experience in applying theoretical knowledge from the field of international trade in a job, preferably full-time, paid and under academic supervision.

ADMI 4998 - Cooperative Education Experience in Management and Entrepreneurship

Two to four credits. The student must work one to nine hours for one credit, ten to twenty hours for two credits, twenty-one to thirty hours for three credits, and thirty-one to forty hours for four credits.

Prerequisites: Have completed two years of undergraduate studies (60 crs. or more) and have a minimum GPA of 2.5. Corequisites: This course is limited to students in the majors of marketing, operations and supply management, human resource management, and entrepreneurship.

Experience to apply theoretical knowledge of the business field in a full-time, paid, academically supervised job. This course will be offered in face-to-face, hybrid, and online modalities. The course will be a full load for the student when it is 4 credits.

ADMI 5990 - Seminars on Contemporary Issues in Entrepreneurship Three credits. Three hours of seminar per week. Prerequisites: CONT 3105, MERC 3115.

Study of contemporary issues affecting small businesses. Emphasis will be given to topics that involve the development of new business models, the investigation of current situations and problems. Students may enroll in up to two seminars, provided that the course topic is different each time. This course will be offered in face-to-face and hybrid modalities.

COEM 3001 - Business Communication in Spanish I

Three credits. Three hours of discussion a week. Prerequisite: ESPA 3101- 3102 or equivalent. Study and development of the fundamentals of effective communication, in a business context of oral and written communication, in a business context. The importance of effective communication and the development of communicative competence for the functioning of companies and professional performance is highlighted. Particular attention is paid to the adoption of a critical and creative attitude and to the integration of grammatical, stylistic and logical norms of ethical principles, as well as relevant psychological, technical and cultural knowledge. This course is offered in face-to-face, hybrid and online modalities.

COEM 3002 - Business Communication in Spanish II

Three credits. Three hours of discussion a week.

Analysis of situations and problems, work and practice of the appropriate communication strategies to raise or solve them, either individually or in a team. Strategies for the effective writing of professional communications are studied and applied. This course is offered in face-to-face, hybrid and online modalities.

COEM 3006 - Seminar on Drafting and Analysis of Business Documents

Three credits. Three hours of seminar per week.

Prerequisites: COEM 3001, basic Spanish or its equivalent

The seminar covers aspects of the language which are fundamental to the theory and practice of writing. The main objective is the study of communication through the use of written language. Therefore, the basic models of communication are explored. The course offers students the opportunity to acquire the knowledge, skills and aptitudes that will strengthen their written communicative competence to perform effectively in the professional field. Emphasis will be placed on the generation, development, and organization of ideas as preliminary phases of writing.

Likewise, the minimum units for the writing of a professional text will be the sentence according to its structure, the types of paragraphs and the grammatical links that serve as logical connectors to link ideas. This course is offered in face-to-face, hybrid and online modalities.

COEM 3007 - Oral Communication in Companies

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Study and practice of the theoretical concepts of public speaking, as well as the oral communication skills necessary for the effective and persuasive exchange of ideas. Elaboration and exposition of the essential modalities of the art of public speaking in a professional context: the talk, the formal discourse, the debate, the forum, the presentation of services and products, the symposium, the interview and the video curriculum, among other modalities. This course is offered in face-to-face, hybrid and online modalities.

COEM 3008 - Writing Reports in Spanish

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: COEM 3001.

Study and practice of theoretical concepts and strategies that allow the development and improvement of the skills necessary to write reports. Examples of different types of formal and informal, analytical and informative reports are studied. Throughout the course, the student produces several writings of this type and puts into practice research techniques. This course is offered in face-to-face, hybrid and online modalities.

COEM 3016 - Puerto Rican and Hispanic American Business and 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 a team. 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. This course is offered in face-to-face, hybrid and online modalities.

COEM 4005 - Etiquette and Protocol in the Business Environment

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

The course offers a general introduction to the necessary information on etiquette and protocol for those who are interested in working with ease, confidence and success in the business environment in Puerto Rico, in the United States, as well as in other societies and cultures. In addition to knowledge, technical preparation and professional experience, it is necessary to have education, information and skills in the correct forms and processes of social conduct in the business world. This course offers the rules of conduct, their theoretical foundations and their raison d'être, as well as the skills and practical training to function effectively in companies. This course is offered in face-to-face, hybrid and online modalities.

COEM 4006 Electronic Communication in the Company

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: Basic Spanish course or its equivalent.

This course analyzes electronic business communication, in its multiple manifestations, usual and emergent, individual, group and interactive. It pays particular attention to the changes that the use of the computer has brought about in the business world and in society, new challenges and dangers, as well as its repercussions on one's own language as a form of communication. The importance of effective communication in its form, content, purpose and appropriateness according to the specific circumstances of each case is highlighted. Importance is also given to changes in the way of working and communication inside and outside the company, to globalization, as well as to its ethical side. This course is offered in face-to-face, hybrid and online modalities.

COEM 4115- Drafting of Proposals

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

Study, research and development of proposals in a business and professional context. The importance of writing proposals in Spanish that are persuasive, clear, concise, well-documented, innovative and different is emphasized. This course is offered in face-to-face, hybrid and online modalities.

COEM 4205 - Interpersonal Communication

Three credits. Three hours of lecture a week.

Study and application of interpersonal communication skills needed in business and/or professional contexts. Factors that hinder interpersonal relationships between the members of an organization are analyzed and discussed; Suggestions are presented to resolve the misunderstandings they generate. The importance of teamwork is highlighted, and recommendations are offered for the implementation of this dynamic. Attitudes and behaviors that favor or hinder interpersonal communication are identified. Positive modes are applied to rephrase expressions that contain indiscreet explicit or implicit tones or messages. This course is offered in face-to-face, hybrid and online modalities.

COEM 4998 - Cooperative Education Experience in Business Communication in Spanish (Disney College)

Two to four credits. Prerequisites: Have completed two years of undergraduate study, sixty credits or more, and have a GPA of 2.5 or higher.

Experience in applying theoretical knowledge of the field of business communication in a full- time or part-time, paid job under academic supervision. The ideal places of employment to obtain this educational and professional experience are publishing houses of textbooks or specialized magazines, advertising agencies or any office where professional services are offered in which business communication has interference. These professional areas are management, accounting, marketing, public relations, administration of office systems or computerized information systems.

COEM 5005 - Intercultural Communication in Companies and Organizations

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

Study and application of the various theories related to intercultural communication in a corporate context within the same country and from one country to another. The course presents an overview of the factors that contribute to intellectual encounters, between members of different subsystems (ethnic groups), within the same socio-cultural system, and between peoples with different socio-cultural systems. Theoretical and practical knowledge is integrated with an interdisciplinary approach. The course is offered in face-to-face, hybrid and online modalities.

CONT 3105- Introduction to the Fundamentals of Accounting I

Three credits. Three hours of lecture a week.

Study of accounting as an information system and support function that enables decision-making in companies. Discussion of concepts and methods applicable to the use and disclosure of financial information, its analysis and its effect on different users and types of business entities.

CONT 3106 - Introduction to the Fundamentals of Accounting II

Three credits. Three hours of lecture a week. Prerequisite: CONT 3105.

Study of accounting as an information system and support function that enables decision-making in companies. The use of accounting information in planning and control functions within an organization is emphasized. The nature of costs and how they are defined and used for different purposes is discussed. The course is offered in face-to-face, hybrid and online modalities.

CONT 4001 - Philosophy, Theory, and Problems of Financial Accounting I

Three credits. An hour and a half of reading and an hour and a half of discussion a week. Prerequisites: CONT 3106.

Study of the historical development and elaboration of the fundamental concepts of the discipline of accounting. Discussion of the standards issued by the governing bodies of the profession and the methods and procedures pertinent to the preparation, recording, analysis, and disclosure of financial information in companies. The course is offered in face-to-face, hybrid and online modalities.

CONT 4002 - Philosophy, Theory, and Problems of Financial Accounting II

Three credits. An hour and a half of reading and an hour and a half of discussion a week. Prerequisites: CONT 4001 or equivalent.

Discussion of the standards issued by the governing bodies of the profession and the methods and procedures pertinent to the preparation, recording, analysis and disclosure of financial

information in companies. Studies of transactions and events related to the measurement of assets, debts and capital of owners or shareholders. The course is offered in face-to-face, hybrid and online modalities.

CONT 4003 - Philosophy, Theory, and Problems of Financial Accounting III

Three credits. An hour and a half of reading and an hour and a half of discussion a week. Prerequisites: CONT 4002 or equivalent.

Discussion of the rules issued, methods and procedures pertinent to the preparation, recording, analysis and disclosure of financial information related to complex items and transactions. Analysis of the most

recent standards issued by the governing bodies of the profession and their impact on accounting information systems. The course is offered in face-to-face, hybrid and online modalities.

CONT 4006 - Managerial Accounting

Three credits. Three hours of lecture a week. Prerequisite: CONT 3106.

Study of the use of accounting information for the sustainable creation of value in an organization. Analysis of the impact of cost information and other managerial information on strategic, tactical, and operational decision-making, management conduct, and organizational performance. The course is offered in face-to-face, hybrid and online modalities.

CONT 4017 - Theory and Principles of Account and Systems Intervention

Three credits. Three hours of lecture a week. Prerequisite: CONT 4002.

An integrated approach to contemporary auditing practices is presented with an emphasis on the evaluation of the accounting system and internal controls. The theory and philosophy of auditing are emphasized. Specifically, the following are discussed: generally accepted auditing standards, canons of ethics, the theory of evidence, explanation of statistical sampling, and computers in examining transactions. Also included are the managerial services provided by the CPA to his clients. The course is offered in face-to-face, hybrid and online modalities.

CONT 4026 - Accounting Internship Program

Four credits. Prerequisites: CONT 4002 and consult the Program Coordinator in the Accounting Department.

It consists of a full-time internship in a workplace where the student has the opportunity to apply the theoretical concepts acquired in the classroom. It is also intended that the student is exposed to a series of situations that only a center of this nature can provide, and that serve to develop the confidence and emotional maturity that they need to perform well in their professional life. The course will also allow students to have more elements of judgment to determine the particular area within the field of accounting in which they want to develop their professional practice. The course will last ten (10) weeks and will be offered three times a year. The course is offered in face-to-face, hybrid and online modalities.

CONT 4027 - Cost Analysis and Control

Three credits. Three hours of lecture a week. Prerequisite: CONT 4125.

Cost accounting applications to cost control. Standard costs, factory costs and budgets;

distribution and administrative costs; cost-profit analysis for management decisions: variable costs and marginal revenue, sales volume to cover cost, analysis of alternatives; graphical presentation of cost information; differential costs.

CONT4029 - International Accounting

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: CONT 4007, 4009, and 4017, and be classified in Business Administration.

Study of the multinational dimensions of accounting with reference to foreign currency transactions, taxes, auditing and financial statements. Discussion of efforts for the harmonization of accounting standards. Emphasis on the critical aspects of accounting, organizational structure, ethics, investments, and the relevant economic environment. It requires the student to participate in individual working groups or projects and present their findings orally and in writing. The use of the microcomputer is required The course is offered in face-to-face, hybrid and online modalities.

CONT 4057 - Accounting Information Systems

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: CONT 4001.

Study of the functions and usefulness of a computerized information system. Discussion on development, analysis and control of accounting information systems. The course is offered in face-to-face, hybrid and online modalities.

CONT 4058 - Advanced Financial Accounting

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: CONT 4002.

Study and discussion of advanced and complex topics of financial accounting, such as: consolidated financial statements, foreign operations and business structure.

CONT 4059 - Accounting for Non-Business Entities

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: CONT 4002.

Study and discussion of accounting standards that apply to government entities, particularly states and municipalities, and other non-profit organizations, both public and private. The tax situation of these entities is analyzed.

CONT 4076 - Contributory Aspects of Individuals

Three credits. Three hours of discussion a week. Prerequisite: CONT 3105.

Analysis of the basic concepts of taxation at the federal and state levels with special attention to the income tax of individuals. Computation of tax liability, income, exclusions, exemptions, deductions, tax credits, and property transactions. Analysis of administrative provisions and procedures. The course is offered in face-to-face, hybrid and online modalities.

CONT 4079 - Tax Aspects of Corporations and Conduit Entities

Three credits. Three hours of discussion a week. Prerequisite: CONT 3106

Discussion of the basics of taxation of corporations and entities conducted at both the federal and state levels, with special attention to income tax. Analysis of the tax aspects of capital contributions, distributions and capital gains and losses. Also discussed are corporate reorganizations, consumption tax, and special economic incentive laws. The course is offered in

face-to-face, hybrid and online modalities.

CONT 4125 - Cost Accounting

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: CONT 3106 or 3006.

Study of the principles on which cost accounting is based and its role in administrative decision- making processes. Various cost accounting techniques applied to different types of production processes are studied. In the same way, the principles of cost accounting are studied to develop budgets. The methods used to determine cost are also discussed. Finally, the analysis of routine procedures carried out in the compilation of information to determine cost is performed. The course is offered in face-to-face, hybrid and online modalities.

CONT4245 - Introduction to the Fraud Test

Three credits. Three hours of discussion a week. Prerequisite CONT 3106.

Introduction to the examination of fraud through the study of the concepts and techniques for the prevention, detection and investigation of fraud in a company or in a judicial proceeding.

Investigative techniques consist of gathering evidence, taking statements, and writing reports to detect and prevent fraud. The course is offered in face-to-face, hybrid and online modalities.

CONT4991 - Cooperative Education Experience I

One to four credits. Prerequisites: Be a second-year Business Administration student (60 credits or more) and have a minimum grade index of 2.5 GPA. Student must work 20-30 hours per week for three credits. 31-40 hours per week for four credits. Summer session: student must work at least 20 hours per week for two credits, and more than a total of 300 hours for three credits.

Experience applying technical knowledge of the accounting field in a job preferably full-time, paid, and under academic supervision. The course is offered in face-to-face, hybrid and online modalities.

CONT4992 - Cooperative Education Experience II

*One to four credits. Prerequisite CONT4991. S*tudent must work 20-30 hours per week for three credits. 31-40 hours per week for four credits. Summer session: student must work at least 20 hours per week for two credits, and more than a total of 300 hours for three credits.

Advanced experience in applying theoretical knowledge of the accounting field in preferably full- time, paid, academically supervised work. This course is offered in face-to-face, hybrid and online modalities.

CONT 4997 - Special Topics in Accounting

One to four credits. One to four hours of discussion a week. Prerequisite: Variable depending on the topic being covered in the course.

Course of topics and variable credits in which current issues in accounting are discussed, researched and analyzed, particularly those that represent new knowledge in the discipline. A student may take this course more than once as long as the subject is different, up to a maximum of six credits and with the approval of the department head.

CONT 5015 - Accounting for Sustainable Development Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: CONT 4002

This seminar discusses the development and preparation of corporate sustainability reports and their implications. It deals with the different ways in which organizations provide information on their environmental, social, and economic performance, either on a voluntary or mandatory basis.

CONT 5400 - Seminar in Accounting

Three credits. Three hours of seminar per week. Prerequisites: CONT 4003, or authorization from department director.

Research seminar on the contemporary aspects of accounting at a local and international level with emphasis on their critical analysis. It includes the development of the research and communication skills necessary for the professional practice of accounting.

DEME 4006 - Advanced Commercial Law

Three credits. Prerequisite: DEME 4005.

Corporate law course with particular emphasis on corporate organization, drafting incorporation documents and other forms; discussion of legal principles

involved in matters that require corporate action. Study of powers and corporations; their rights, powers, responsibilities and those of their directors and shareholders; corporate capital and related matters. Negotiable instruments, the law, and judicial interpretations and decisions.

ESEM 5006- Problems Associated with Small Business Startup, Development and Maturity

Three credits. Three hours of seminar per week. Prerequisites: FINA 3106, GEOP 4315, MERC 3115, REHU 4405 OR REHU 4408 OR ADMI 4415.

Identification of situations that the company typically faces in the start-up, development, and maturity stages. Emphasis on applying the strategic analysis cycle to identify small business problems and propose strategic solutions. The student will diagnose problems using real cases or solutions and prepare an intervention plan. Identification of situations that the company typically faces in the start- up, development, and maturity stages. Emphasis on applying the strategic analysis cycle to identify small business problems and propose strategic solutions. The student will diagnose problems using real cases or solutions and prepare an intervention plan that proposes concrete solutions. This course will be offered in face-to-face, hybrid, and online modalities.

ESEM 5007- Financial Proposal for a New Business

Three credits. Three hours of seminar per week. Prerequisites: ESEM 5006 Evaluation of Business Ideas. Graduate students must have the authorization of the director of the program in which they are classified.

Examination of the basic concepts and elements related to financing new ventures. General aspects about the funding needs in a business and the sources of financing available in the short, medium and long term are considered. The entire process involved in preparing a financial proposal is also discussed. The student prepares a financial plan for the selected business idea. It also reviews the financial estimates prepared in the Business Idea Evaluation course.

ESEM 5009- Business Development through Franchising or Acquisitions

Three credits. Three hours of seminar per week. Prerequisites: FINA 3106.

Studies of two business development alternatives: the acquisition of a franchise or the acquisition of an already established business. Among other topics, the legal aspects of the franchise agreement, training, support systems, standardized procedures, competencies, financial analysis, sources of financing, and future development projections are analyzed

and how to calculate the value of the business. The student will prepare a feasibility study. This course will be offered in face-to-face, hybrid, and online modalities.

ESTA 3041: Statistics and Data Analytics for Business Administration I

Prerequisite: MECU 3031. Three credits. Three hours per week of lecture and practice.

Introduction to statistics. Introduction to data visualization and analytics: graphs of various types; pivot tables and

interaction with data. Basic concepts of probability, conditional probability, decision

trees, discrete and continuous random variables. Application of the Naive Bayes algorithm for supervised classification. Probability distributions and their properties, including normal and binomial distributions.

Introduction to sample selection and design of experiments. Proficiency in Excel and R programs and others such as Tableau, for the organization, summarization, presentation and analysis of real data in the context of business administration.

ESTA 3042 - Statistics for Business Administration II

Prerequisite: ESTA 3041 and SICI 3211. Three credits. Three hours per week of lecture and practice.

Introduction to statistical inference. Sampling distributions and the central limit theorem. Estimation and hypothesis testing for one and two samples. Introduction to statistical quality control. One-factor analysis of variance and multiple comparison tests. Analysis of contingency tables. Simple and multiple linear regression. Time series applications. Use of computerized statistical programs to implement the statistical techniques studied.

ESTA 3045 - Introduction to Statistics for Business Administration Prerequisites: MECU 3032 and SICI 3211. Three credits. Three hours per week of lecture and practice.

Study of models, concepts and theories for data analysis (enumerative and analytical; concept of population and process, probabilistic models, sampling distribution theory). Discussion and analysis of the following topics: introduction to statistical quality control, statistical inference for decision making, reliability intervals, classical and Bayesian decisional analysis, inferences based on bivariate tables, regression techniques, and time series forecasting. Use of various computer statistical packages as a tool for data analysis and management. Individual work is required in the Statistics Laboratory.

ESTA 3050 - Introduction to Statistical Computing

Prerequisites: ESTA 3041 Statistics for Business Administration I or equivalent. Three credits. Three hours per week of lecture and practice.

Students will learn how to use a statistical program to perform data analysis and how to develop programs to support that analysis. The course introduces basic notions of programming through the use and creation of functions and statistical graphs. The topics that are included are data structures; reading, modifying, and exporting data; flow control structures; creation of informative charts; Code debugging. Practical examples correspond to topics of statistical data

analysis such as descriptive statistics, regression, correlation, statistical distributions. A statistical program such as R will be used.

ESTA 4001 - Intermediate Statistical Theory I

Prerequisites: ESTA3042, MECU3004 and ESTA 3045. Three credits. Three hours per week of lecture and practice.

The main purpose of this course is to examine, at an intermediate level, the theoretical foundations of Statistics. The course represents an introduction to probability and mathematical statistics. The following concepts are examined, among others: probability,

random variables, probability distributions, expected value, and moment-generating function; special probability distributions; joint probability distributions; covariance and correlation.

ESTA 4008 - Research Seminar

Prerequisites: Statistical Methods (ESTA 4345 and ESTAS 4001 Three hours of lectures per week/3 credits).

Development of research using the theory and methods learned, such as: multiple regression, principal components, factor analysis, discriminant analysis, analysis of variance, contingency tables, experimental design. Study and discussion of the ethical aspects of the profession.

ESTA 4345 - Statistical Methods

Prerequisites: ESTA 3042 and ESTA 3045. Three credits. Three hours per week of lecture and practice.

Introduction and practice of different univariate and multivariate statistical methods or techniques, descriptive techniques and exploratory data analysis; comparison of two populations (groups or treatments) using the classical approach (t-test) and non-parametric approach; analysis of variance of one or more categorical factors or variables vs. the Kruscal-Wallis test; simple and multiple regression and correlation; other non-parametric methods; Sampling techniques and statistical quality control of an operating system. Use of computerized statistical programs to implement the statistical techniques studied. Presentation and discussion of cases applied to different areas of Business Administration.

ESTA 4501 - Predictive Models and Trend Analysis

Three credits. Three hours per week of lecture and practice. Prerequisite: Statistics for Business Administration II (ESTA 3042) or MECU 3032 or its equivalent. Graduate students must have the permission of the director.

Seminar on linear and non-linear models of multiple regression, including logistic regression. Inference and diagnostic tests, selection and transformation of variables, as well as indicator variables, are studied. Trend analysis through the study and application of time series models, including the classical multiplicative, moving average, autoregressive, and Box-Jenkins (ARIMA) models. The statistical program R will be used for the processing and analysis of data applied to various areas. Through individual and collaborative research, the student will prepare and present in written and oral form, a final project where he or she applies and integrates concepts from the course to a specific problem.

ESTA 4988 Cooperative Education Experience

Two to four credits. Regular academic semester: student must work 20-30 hours per week for three credits. 31-40 hours per week for four credits. Summer session: student must work at

least 20 hours per week for two credits, and more than a total of 300 hours for three credits.

Prerequisites: have completed two years of bachelor's degree and GPA of at east 2.5.

Experience in a full-time job, paid and under academic supervision, in order to apply statistical methods and techniques in the business field. The course will be full time for the student when it is a 4 credits section.

ESTA 5502 - Design and Analysis of Statistical Samples

Three credits, three hours per week of lecture and practice. Prerequisites: ESTA 3042, MECU 3032 or its equivalent. Graduate students must ask for authorization of the program director.

Seminar on the design, selection and analysis of samples by statistical methods. Basic concepts and principles of probability sampling. Relationship with "Big Data" approaches. Experience with sampling frames and databases in various formats and the use of the R program. Estimation, weights, precision, accuracy and efficiency of simple, stratified, systematic, systematic replicated and clustered random sampling in one and two stages. Exposure to special issues including non-response, omitted data, and total error. Overview of topics such as imputation techniques and telephone sampling. Development of applied projects. The student will prepare and present in written and oral form a research project where he/she applies and integrates concepts from the course to a specific problem and real database.

ESTA 5503 - Applied Multivariate Analysis

Three credits. Three hours per week of lecture and practice. Prerequisite: Statistics for Business Administration II (ESTA 3042) or ESTA 3045 or its equivalent, MECU3032 o its equivalent. Graduate students must have the permission of the director.

Seminar on the basic concepts of statistical analysis for several variables applied to a variety of problems. There will be a general review of matrix algebra and an introduction

to the multivariate normal distribution. Through individual and collaborative research,

multivariate analysis methods aimed at solving problems in various disciplines, particularly business administration, will be studied and applied. Among the methods of analysis that will be studied are hypothesis testing of a vector of means, differences of vectors of means, homogeneity of matrices of covariances, comparison of more than two vectors of means (MANOVA), principal component analysis, factor analysis, discriminant analysis and cluster analysis. Computer statistical programming will be used for data processing and analysis. The student will prepare and present in written and oral form, a research project where he/she applies and integrates concepts from the course to a specific problem.

ESTA 5504 - Data Mining

Three credits. Three hours per week of lecture and practice. Prerequisite: ESTA 3042 Statistics for Business Administration II or MECU 3032. Graduate students must have the permission of the director.

Seminar on the fundamental concepts of data mining. Through individual and collaborative research work, machine learning techniques that support decision-making by facilitating the analysis of large amounts of data are studied. The content includes data preprocessing and visualization techniques, study and application of supervised classification techniques, unsupervised classification, and association rule detection methods. Application programs are used that allow the student to apply the techniques studied and the analysis of the results obtained. The

student will prepare and present in written and oral form, a research project where he/she applies and integrates concepts from the course to a specific problem.

FINA 3005 - Introduction to Insurance

Three credits. Three hours of lecture a week.

Discussion of the problem of risk and its impact, both on the individual, on the economy and on society; the different techniques, apart from insurance, that can be used in its treatment; the management of insurable risks through the insurance technique, and the relationship between the problem of risk and public policy. Analysis and resolution of situations involving risk. This course is offered in face to face, hybrid and online modalities.

FINA 3057 - Personal and Family Finance

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

Discussion and analysis of the fundamentals of financial planning for making informal decisions regarding personal finances and long-term family financial security. The course can be enrolled by students from all areas of training at the Río Piedras Campus. This course is offered in face to face, hybrid and online modalities.

FINA 3106 - Financial Management

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: FINA 3107, CONT 3106, ESTA 3041.

Introduction to financial management with emphasis on the efficient management of funds for the maximization of the value of the company. The different models used for the evaluation of investment projects are discussed. The different techniques of short-term and long-term financial planning are explained. Aspects concerning the capital structure of the company and its importance in financing and investment decision-making are studied. In the discussion of these issues, the ethical principles that should characterize the profession will be considered. This course is offered in face to face, hybrid and online modalities.

FINA 3107 - Financial Markets and Institutions

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: ECON 3022; Corequisites: CONT 3105.

Studies of financial markets and the functioning of financial institutions. The course discusses the role of financial intermediation and the regulatory structure of financial markets in Puerto Rico, the United States, and abroad. Models and theories about the functioning and behavior of financial markets and the effect of risk on them are explained. Different strategies and mechanisms for managing financial and non-financial risks, and their relationship to the value of financial instruments, are also studied. Current situations and their impact on the financial system are analyzed, considering ethical aspects. This course is offered in face to face, hybrid and online modalities.

FINA 3188 - Financial Analysis with Electronic Spreadsheets

Three credits. Two hours of lecture and one hour of laboratory time per week. Prerequisite: CONT 3105.

Corequisites: FINA 3106.

This course is aimed at students who wish to gain practical knowledge on the use of electronic spreadsheets to carry out a wide range of financial analyses. It studies the different

functions and capabilities of spreadsheets provided by electronic spreadsheets for the financial analysis of financial statements, pricing of debt and equity financial instruments, capital structure and cost of capital analysis, capital investment decisions, financial projections, and analysis of investment portfolios. among other topics common to the disciplines of accounting and finance. This course is offered in face to face, hybrid and online modalities.

FINA 4001 Seminar in applied economic, managerial and financial analysis

Three credits. Three hours of seminar per week.

Prerequisites: ECON3021, ECON3022, FINA3107, ESTA3041.

Introduction to the methodology of experimental economics and its application to specific economic, financial and managerial topics. Students analyze decision-making processes, uncertainty scenarios and definition of market price. experiments on economic, managerial and financial theories and concepts are reviewed and carried out in the classroom. applied research and analytical discussion based on economic and financial concepts are encouraged, as well as the application of ethical principles in decision-making processes. This course is offered in face-to-face, hybrid and online modalities.

FINA 4005 - Life & Health Insurance

Three credits. Three hours of lecture a week. Prerequisite: FINA 3106.

This course is an intermediate course in the field of insurance in which the concept of risk applied to the human being as an object of insurance is studied. In addition, the application of insurance techniques as a mechanism to provide protection against economic losses due to the loss of the productive capacity of the human being as a result of premature death, disability of old age is studied. The course covers the study of the fundamental principles of life insurance, annuities, pensions and health insurance, the various types and modalities in which they are manifested, the benefits provided under them, their application to the various risk situations, the determination of rates and reserves and legal doctrines that are applicable to them.

FINA 4006 - Property and Contingency Insurance

Three credits. Three hours of lecture a week. Prerequisite: FINA 3005.

Study of the risks covered by property and casualty insurance, the protection provided by such insurance and the principles on which it is based. It includes the types of insurance known as multi-lines and as insurance against all risks of physical loss and finance and guarantees.

FINA 4007 - Stock Market

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: FINA 3007.

Study of the structure and operational mechanisms of the stock market in the United States, with a focus on stocks, bonds, and mortgages. Analysis of the role played by market participants such as investment bankers, broker-dealers, mortgage bankers, and institutional investors. The characteristics of options futures contracts and foreign exchange markets are also studied.

FINA 4015 - Banking Administration

Three credits. Prerequisite: FINA 3007 and FINA 3006.

This course analyzes the role of financial intermediation performed by banks in our economy. In addition, it studies the regulatory environment where the industry operates and the state and federal agencies that supervise and oversee the industry. The different banking structures and the ways in which these institutions are organized are described and analyzed. The financial

statements of a banking company and the importance of financial and operational ratios applied to the measurement of the performance of banking institutions are discussed.

FINA 4016 - Real Estate

Three credits. Prerequisite: ECON 3005.

A basic course on principles and practices in the real estate business and the socio-economic forces that underpin it.

FINA 4018 - Real Estate Financing

Three credits. Three hours of lecture a week. Prerequisite: FINA 4016 or two years of experience working in real estate financing.

Study of the economic basis, sources of, and uses of capital used in real estate financing, and evaluation of real estate investment alternatives. The course includes an analysis of trends in the development of urban and rural areas; ways to finance real estate; the different types of mortgages. It also analyzes the primary and secondary markets for mortgages and the functioning of the different institutions that originate mortgage loans.

FINA 4019 - Monetary and Fiscal Policy

Three credits. Prerequisite: FINA 3007.

This course aims to analyze: the general problems of the business cycle and balance of payments; the use of fiscal and monetary policy as a measure to combat business cycle and balance-of-payments problems; and the limitations and conflicts of these measures. The effects of monetary and fiscal policy will be studied in two stages: (1) Their short-term effects on financial institutions; 2) its ultimate effect on

the real sector. In this process, great emphasis will be placed on analyzing the behavior of financial institutions and their role in the transmission of economic policy. The analyses will be preceded by the construction of a theoretical model in which the financial block will receive special emphasis. The case of Puerto Rico will be studied under the following criteria: 1) as a unit with a close economic relationship with the United States; and 2) as a unit capable of generating its own economic policy.

FINA 4020 - International Finance

Three credits. Three hours of lecture a week. Prerequisite: FINA 3007.

Study of international monetary relations with particular attention to international monetary theory and policy. Topics to be discussed include international money markets, international banking, balance of payments adjustment, and the international monetary system. This course is offered in face-to-face, hybrid and online modalities.

FINA 4027 - Contemporary Trends in the Field of Currency and Banking

Three credits. Three hours of lecture a week. Prerequisite: FINA 4019.

The basic objective of the seminar is to put the student in contact with modern trends in the field of currency and banking and related areas to enrich, strengthen and increase their knowledge acquired in the introductory, intermediate and elective courses that the area of major requires.

FINA 4039 - Public Finance

Three credits. Prerequisite: ECON 3005.

General principles on public revenues and disbursements, public debt and budgetary

function. Incidence and transfer of different types of tax. Problems inherent in the following state and local taxes: property and income taxes, both individual and corporate; on articles of use and consumption; on inheritances and others. Fiscal administration problems. The tax system and fiscal organization in Puerto Rico.

FINA 4066 - Risk Management

Three credits. Two hours of discussion and one hour of lecture per week. Prerequisite: FINA 3005.

Advanced study of the field of risk management and insurance, specifically on risk management as a managerial function that helps preserve the operational efficiency of organizations. It covers the nature, purpose, and process of managing risk for both accidental losses and business risk. Emphasis is placed on the analysis and development of the most appropriate techniques in decision-making and in the design, implementation, evaluation and improvement of risk management programs. The course is offered in face to face, hybrid and online modalities.

FINA 4067 - Fixed Income Securities Market

Three credits. One hour of lecture and two hours of discussion per week. Prerequisites: FINA 3006, FINA 3007 and FINA 4037.

Study of the valuation and behavior of fixed-income assets. Analysis of major assets of this type including

U.S. government securities, Puerto Rico and agencies, corporate debt instruments, municipal bond markets, mortgage loans and participations, and obligations collateralized by mortgages or other assets. Discussion of the mathematical analysis of bond pricing, yield and bond volatility. It includes analysis of the factors that affect the performance and term structure of interest rates. Introduction to the management of fixed income portfolios in both the active and passive modalities. This course is offered in face-to-face, hybrid and online modalities.

FINA 4125 - Intermediate Financial Management

Three credits. An hour and a half of lecture and an hour and a half of discussion prerequisite: FINA 3106.

The course is aimed at delving into the topics of corporate financial management. The concepts, techniques and tools used by financial managers to make efficient decisions regarding investment and financing are discussed and analyzed. Special attention will be paid to the following topics: financial planning, capital budgeting, capital structure, leasing, dividend policy. The course is aimed at students of the major in finance with the purpose of equipping them with the necessary financial tools for future decision-making in the work environment. This course is offered in face-to-face, hybrid and online modalities.

FINA 4130 - Business Valuation

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: FINA 3106.

This course introduces the finance student to the field of financial valuation of private companies. The theory and principles of business valuation will be discussed. Valuation approaches and methods, such as the income method, the market approach, the asset or adjusted net equity method, and the excess earnings method, will be studied. In addition, various techniques applied to valuation and the ways of writing valuation reports will be examined. A distinction will be made between valuation for a share purchase and asset purchase. This course is offered in face-

to-face, hybrid and online modalities.

FINA 4137 - Investments

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: FINA 3106.

The course studies risk-return relationships emphasizing the importance of portfolio theories, their relationships and functions in the world of investments. Stock markets are studied, the role of the institutions that participate in them, and the different theories that seek to explain these markets. The course also discusses and analyzes investment alternatives in detail, emphasizing their risks and objectives. The relevant needs of individual and institutional investors are analyzed when determining investment objectives. In addition, the management and programming of individuals' investment portfolios is discussed through the stylization of modern techniques. This course is offered in face-to-face, hybrid and online modalities.

FINA 4138 - Derivatives Markets

Three credits. One and a half hours of lecture and one and a half hours of discussion per week. Prerequisite: FINA 3106, FINA 3107, FINA 4137.

Comprehensive study of the processes of creation, provision, exchange and management of options, futures and other financial derivatives. Basic valuation concepts are reviewed, along with their application, for both individual instruments and investment portfolios. Financial derivatives are analyzed as instruments to control risks, both for institutional and individual investors.

FINA 4145 - Comprehensive Seminar in Finance

Three credits. Three hours of seminar per week. Prerequisite: FINA 4125 and FINA 4137.

Seminar-type course in which cases and articles on various topics in finance will be discussed. You will integrate the concepts and skills acquired in the major courses. The selection of cases and articles to be studied is designed to encourage analytical discussion and the application of relevant concepts and models for financial decision-making in an environment that simulates the one where the student will work in his or her future area of work. This course is offered in face-to-face, hybrid and online modalities.

FINA 4149 - Investment Portfolio Management

Three credits. An hour and a half of lecture and an hour and a half of discussion. Prerequisite: FINA 4137.

Discussion of the different theories and techniques used to combine different types of investments and create portfolios that meet specific goals and objectives based on risk parameters. It is aimed at finance students with an interest in the area of investments. It will include an in-depth discussion of different topics relevant to the area of portfolio management, such as the selection of investment policies and strategies, selection of financial assets, integrated risk management, efficient diversification, market efficiency and measures of the performance of investment portfolios. Analysis techniques (tactical and strategic) of foreign assets will be discussed, taking into account international risks such as country risk, political risk, currency exchange, liquidity risk, among others. This course is offered in face-to-face, hybrid and online modalities.

FINA 4165 Introduction to the management of small and medium businesses

Three credits. One hour of conference, one of discussion and one of laboratory per week. Prerequisite: FINA 3106

Introduction to the financial management of small and medium businesses (SMBS). Discussion of methods for the acquisition and valuation of a small business. study of legal forms of business. The fundamentals of financial planning, financial needs and available short- and long-term sources of funds for small businesses will be examined. discussion of the components of a business plan, with special emphasis on the preparation of financial projections for managerial guidance and to obtain external financing. The student will be exposed to real life cases through agreements with financial institutions serving SMBS. This course is offered in face-to-face, hybrid and online modalities.

FINA 4225 - International Financial Management

Three credits. A one-and-a-half-hour lecture and one-and-a-half hour of discussion. Prerequisites: FINA 4125.

Discussion and analysis of financial management with emphasis on the company's strategies from an international perspective. Topics such as international stock markets, protection against foreign exchange rate risk, financing strategies and international capital budgeting, management of international transfers and international portfolio management will be analyzed as a basis for the company's financial decision-making.

FINA 4240 - Retirement and Employee Benefits Financial Planning Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: Fina 3005.

Development of comprehensive plans for clients focused on various aspects of personal retirement planning. Topics include construction and analysis of personal financial statements, financial planning for education, analysis of investment needs for retirement, retirement plans, IRAs, social security and medicare benefits, tax regulations applicable to retirement plans, among others.

FINA 4270 - Behavioral Finance

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: FINA 4137.

Study of behavioral finance as a complement to the traditional paradigm to understand the

behavior of financial asset prices, corporate finance, and stock market practices. It is aimed at finance students with an interest in the area of investments.

FINA 4305– Advanced Personal Financial Planning

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: FINA3106.

Application and integration of financial concepts and tools to personal financial planning. It includes topics such as: liquidity management, investment analysis, personal asset risk management, retirement planning and succession plans, among others. Discussion of behavioral finance aspects in personal financial planning.

FINA 4991 - Experience in Cooperative Education I

Two to four credits. Regular Semester: The student must work 20-30 hours per week for three credits. 31- 40 hours for four credits. Summer session: 20 hours of work per week for two credits and more than a total of 300 hours for three credits. Prerequisite: Have completed two years of undergraduate study and a minimum GPA of 2.5.

Experience to apply theoretical knowledge of the business field in a full-time, paid,

academically supervised job.

FINA 4992 - Experience in Cooperative Education II

Two to four credits. Regular Semester: The student must work 20-30 hours for four credits. Summer session: 20 hours of work per week for two credits and more than a total of 300 hours for three credits. Prerequisite: FINA 4991.

Advanced experience in applying theoretical knowledge of the field of finance in a job, preferably full-time, paid and under academic supervision.

FINA 5025 - Finance for Entrepreneurs

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: Fina 3106. Graduate students must have permission from the advanced course for students who wish to establish a business and need to acquire knowledge of financial aspects for the proper development of the business.

The process of starting the business, the financial management of the business through its growth and stabilization, the mechanisms of short- and long-term financing and the expansion processes are studied.

FINA 5125 - Financial Management for Non-Profit Organizations Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: FINA 3106.

Traditional treasury functions are analyzed and evaluated, and cash, endowment, endowment, and other management strategies are examined. Indebtedness, risk management, and long- term planning are studied. The needs of different types of organizations are analyzed, such as: religious groups, community service organizations, cultural institutions, and educational institutions.

FINA 5995 - Seminar on Contemporary Issues in Finance

One to three credits. Prerequisite: FINA3106.

Research, discussion and analysis of contemporary issues in Finance or in which you are interested in deepening due to their importance in the area. It may cover a variable number of hours, according to the topic and the depth of the discussion and research (from 1 to 3 credits). This course is offered in face-to-face, hybrid and online modalities.

GEOF 3030 - Document and Database Management Systems

Three credits. Three hours a week.

Study of the principles related to the planning, organization, management and control of systems for the management of documents. Development of competencies for the management of a database program for information processing. This course is offered in face-to-face, hybrid and online modalities.

GEOF 3035 - Learning the Keyboard and its Applications

Three credits. Three hours a week for classroom discussion and practice.

Learning the skill of touch typing on the computer. Development of the skill of speed and accuracy. Proficiency in the alphanumeric keyboard and its symbols. Application of the related theoretical aspects. In the production of simple business documents. This course is offered in face-to-face, hybrid and online modalities.

GEOF 3036 - Advanced Level of Keyboard and its Applications

Four credits. Four hours a week for classroom discussion and practice. Prerequisites: GEOF 3035 or equivalent.

Optimal development of touch writing skills. Application of skill in the design and processing of varied documents in the business context through the use of the computer. This course is offered in face-to-face, hybrid and online modalities.

GEOF 3046 - Spanish Writing Abbreviation System

Three credits. Three hours of lecture and classroom practice per week. Prerequisite: ESPA 3102 or equivalent.

Learning the Gregg shorthand system in Spanish. Development and mastery of shorthand skills through dictation, reading, and transcription of signs. Review and application of the grammatical rules of the Spanish language. This course is offered in face-to-face, hybrid and online modalities.

GEOF 3055- Seminar on Integration of Technologies in Organizations

Three credits. Three hours a week.

Study, application and evaluation of concepts and trends related to the integration of technologies in organizations. Analysis of the human, technological and environmental aspects that interact in an integrated systems environment. This course is offered in face-to-face, hybrid and online modalities.

GEOF 3317 - Basic Training in Spreadsheet Programs

A credit. Twenty hours of workshop in the semester using the Microsoft Excel computer program. Prerequisites: Basic training in Microsoft Windows or its equivalent, GEOF.

Training in the basic functions of spreadsheet application programs such as Microsoft Excel. This course is offered in face-to-face, hybrid and online modalities.

GEOF 3327 - Training in Accounting Application Programs

Two credits. Thirty hours of workshop in the semester using the Sage 50 computer program. Prerequisite: CONT 3105.

Study and application of concepts and skills for the establishment and updating of computer systems in companies of diverse nature using accounting application programs.

GEOF 3328 - Advanced Training in Spreadsheet Programs

A credit. Two hours of lecture and two hours of laboratory time per week. Four hours per week for 5 weeks. Prerequisites: GEOF 3317.

Training in the advanced features of spreadsheet application programs, such as Microsoft Excel. This course is offered in face-to-face, hybrid and online modalities.

GEOF 4045 - Administrative Systems and Office Procedures Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: GEOF 3055, 3036.

Study of the principles and development of the skills necessary to establish effective procedures in office management. Analysis of trends in organizations, the work environment and the job search process. Emphasis on teamwork, case studies, critical analysis for continuous

process improvement, and creative problem solving. This course is offered in face-to-face, hybrid and online modalities.

GEOF 4049 - Production of Business Documents in Spanish
Three credits. Three hours a week. Prerequisites: GEOF 3036, COEM 3006.
Learning, developing, and mastering the skill of producing business documents in Spanish through the use of the computer. Emphasis on integrating keyboard, design, and language skills for effective document production. This course is offered in face-to-face, hybrid and online modalities.

GEOF 4050 - Production of Business Documents in English
Three credits. Three hours a week. Prerequisites: GEOF 3036, INCO 3010.
Learning, developing, and mastering the skill of producing business documents in English through the use of the computer. Emphasis on integrating keyboard, design, and language skills for effective document production. This course is offered in face-to-face, hybrid and online modalities.

GEOF 4105 - Integration of Information Processing Programs Three credits. One hour of lecture and two hours of laboratory time per week. Prerequisites: GEOF 3036.
Learning and integrating the functions of application programs into the production of business documents. Emphasis on word processing, spreadsheets, publishing, and presentation programs, among others. This course is offered in face-to-face, hybrid and online modalities.

GEOF 4115 - Seminar in Office Administration and Supervision Three credits. Three hours of seminar per week. Prerequisites: GEOF 4045 and ADMI 4005.
Study and application of advanced concepts on office management and employee supervision. It includes topics related to leadership styles, participative management, labor aspects, and conflict resolution in the office, among others. Emphasis on the study and analysis of cases and the presentation of research projects. This course is offered in face-to-face, hybrid and online modalities.

GEOF 4125 - Strategic Training Planning
Three credits. Three hours of seminar per week. Prerequisites: ADMI 4005, GEOF 4045.
Study, research and application of the basic concepts related to the strategic planning of training for the company. Emphasis on the study and identification of needs, and on the design, preparation and presentation of training proposals. This course is offered in face-to-face, hybrid and online modalities.

GEOF 4126 - Multidisciplinary Business Seminar
Three credits. Three hours of seminar per week. Prerequisites: GEOF 4105, CONT 3106; MATE or MECU.
Introduction to the fundamentals of financial management. Discussion of concepts and principles of descriptive statistics and discussion of the basic fundamentals of entrepreneurship. Application of concepts in the preparation of an integrative plan in the business context.

GEOF 4145 - Emerging Technologies in Organizations
Three credits. Three hours of seminar per week. Prerequisites: GEOF 3055.

Seminar on the evaluation and application of emerging technologies in organizations. Effective use of global networks and technological tools for research, analysis and decision-making process.

GEOF 4150 - Supervised Professional Practice

Four credits. Eight hours of lab work per week. Prerequisite: GEOF 3030, 4045, 4105, 4049, and 4050.

Experience working in an organization during an academic semester to integrate professional competencies. This internship includes conducting research projects, working in a team, dialoguing with lecturers, and preparing oral and written reports. A minimum of 20 hours per week of supervised work and a minimum of 28 contact hours during the semester in the classroom is required. This course is offered in face-to-face, hybrid and online modalities.

GEOF 4995 - Cooperative Education Experience

Two to four credits. Regular semester: student must work 20-30 hours per week for three credits; 31-40 hours for four credits; Summer session: 20 hours of work per week for two credits and more than a total of 300 hours for three credits. Prerequisite: Have completed two years of undergraduate study and a minimum GPA of 2.5.

Elective that provides paid work experience to third-year students of the Bachelor of Arts in Office Management or who are pursuing a Second Major in Office Management. This course offers the opportunity to apply the knowledge and skills learned in the real environment of a modern office, under the combined supervision of the teacher and the employer. This course is offered in face-to-face, hybrid and online modalities.

GEOP 4009 - Enterprise Resource Planning

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: GEOP 4315.

Integration and management of the organization's managerial activities through the use of a Enterprise Resource Planning (EPR) schedule with the aim of increasing the company's efficiency. Emphasis on the use of ERP in small and medium-sized companies. The course includes the use of a schedule. This course is offered in face-to-face, hybrid and online modalities.

GEOP 4315 - Introduction to Operations and Supply Management

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: ADMI 4005, MECU 3031, MECU 3035.

Introduction to the company's operational and supply functions and their importance to the achievement of the organization's strategic plans. Study of the theories, methods and techniques of the function of operations and supply management in domestic and global contexts. This course is offered in face-to-face, hybrid and online modalities.

GEOP 4316 - Lean Sigma and Productivity Systems

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: GEOP 4315.

Analysis of contemporary management concepts, philosophies and strategies that affect productivity in companies, with a focus on "six sigma" and "lean" methodologies, "lean sigma"

tools including the 5s methodology are examined. Kaizen events, process maps, root cause analysis. Total productive maintenance. Kanban systems. Risk and failure analysis, dmaic methodology and visual management systems. The course can be offered in face-to-face, hybrid and distance learning modes. This course is offered in face-to-face, hybrid and online modalities.

GEOP 4318 - Quality Systems Management

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: GEOP 4315, ESTA 3041.

Study of quantitative and qualitative methods for quality management in operations and supply chains. Application of multiple techniques, tools and models including control charts, cause and effect analysis, sampling plans and graphical analysis to evaluate, improve and support the management of an organization's quality systems to meet customer needs. This course is offered in face-to-face, hybrid and online modalities.

GEOP 4319 - Operations Planning and Control

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: GEOP 4315.

Emphasis on the managerial aspects of planning and control on the production floor associated with internal logistics. Study of the activities of operations and materials management and their effects on the strategic plan in manufacturing and service companies. This course is offered in face-to-face, hybrid and online modalities.

GEOP 4320 - Advanced Operations and Materials Management Seminar

Three credits. Three hours of seminar per week. Prerequisites: GEOP 4316, GEOP 4319 or teacher authorization. In the case of field trip, the student must be over 18 years old. Have completed the first two years of their baccalaureate interview and authorization from the director. Study of real and contemporary problems in the area of operations and supplies. Research, discussion and analysis of issues of relevance to operations and supply management. This course can be offered with a required study tour.

GEOP 4335 - Purchasing Management

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: GEOP 4315.

Analysis of the procurement function and its relationship with production, marketing, finance and engineering. Emphasis on the policies and organization of a procurement system, taking into consideration the legal aspects and strategies necessary to achieve an effective system. This course is offered in face-to-face, hybrid and online modalities.

GEOP 4336 - Inventory and Warehouse Management

Three credits. Three hours of lecture a week. Prerequisite: GEOP 4315.

Study of inventory and warehouse management with emphasis on planning and controlling appropriate inventory levels to meet the demand for materials, replacement parts, and finished products while minimizing costs. The course concludes the principles, concepts, and techniques for determining which items to order, how, and where to store them. It also introduces aspects related to the planning, design and control of receiving, warehouse and dispatch areas. This course

will be offered in face-to-face, hybrid and online modalities.

GEOP 4345 - Operations and Supply Management Internship

Three credits. Twelve hours of supervised practice per week. Prerequisites: GEOP 4315, GEOP 4316, GEOP 4319, GEOP 4336.

Hands-on experience of theory and concepts learned in the classroom that relate to effective management of operations and materials in organizations through 180 hours of work in an assigned center. Advice and teacher supervision in the incorporation of students into the world of work. This course is offered in face-to-face, hybrid and online modalities.

GEOP 4355 - Global Supply Chain Management

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: GEOP 4315.

Study of operations management from a global approach, where internal operations are integrated with the functions of suppliers, distributors, transportation systems

and the customer. Multiple tools, processes, and strategies associated with supply chain management are covered. This course will be offered in face-to-face, hybrid and online modalities.

GEOP 4998 - Cooperative Education Experience in Operations and Supply Management

Two to four credits. Supervised practice. Prerequisite: Have completed 2 years of undergraduate study (60 credits or more); Minimum GPA 2.5.

Hands-on experience applying theoretical knowledge from the field of operations and supply management in a job, preferably full-time, that is paid and under academic supervision. Face-to-face, hybrid and online course. The course will be a full load for the student when it is 4 credits. This course is offered in face-to-face, hybrid and online modalities.

INCO 3008 - Pronunciation Techniques

Two credits. Two hours weekly of conference. Previous requisite: INGL 3102.

Study of English phonetics and their effect on oral expression. Systematic exercises for the correct production on the sound patterns that give the Spanish-speaking student greater difficulty with special emphasis upon rhythmic patterns and intonation. This course is offered in face-to-face, hybrid and online modalities.

INCO 3010 - Writing Techniques and Business Communication Skills in English

An hour and a half conference and an hour and a half of discussion per week. Three credits. Prerequisites: COEM 3001, first year of English or its equivalent. INGL 3101- 3102 or its equivalent. Development of writing techniques and listening and oral skills in business communication in English through varied activities that include reading and discussing business literature in English. The course is aimed at office management students. Students learn to identify interference from Spanish to the English language in Business English documents. Emphasis is given to the terminology and expressions of Business English. The use of technology is fundamental in the search for information. One topic per semester of communication in companies will be chosen. This course is offered in face-to-face, hybrid and online modalities.

INCO 3011– Translation Spanish to English and English to Spanish/Traducción Español a Inglés e Inglés a Español

Two credits. Previous requisite: INGL 3102. INCO 3005 or its equivalent.

Translation techniques from Spanish to English and English to Spanish. Emphasis on vocabulary, modals and structure in both languages and its implications in business. This course is offered in face-to-face, hybrid and online modalities.

INCO 4006– Report Writing

Two credits. Two hours weekly of conference. Previous requisite: INCO 4008.

Training in the fundamental techniques of business communication through written reports. Special attention is given to the procedures employed in writing an objective, well organized, factual report, the classification of reports and the methods of research. The actual writing of a short analytical report is required. This course is offered in face-to-face, hybrid and online modalities.

INCO 4008 - Strategic Business Communication

Two credits. One hour of conference, one of discussion, and one hour of lab per week. Prerequisite: COEM 3001 or its equivalent.

Application of strategic business communication applied to oral and written message development in English and document design. Research is a fundamental part of methodology. Technology is integrated through the interaction with international students using the "pen pal" project. This course is offered in face-to-face, hybrid and online modalities.

INCO 4010 Strategic business report writing and oral communication in a diverse changing society

Four credits. Four hours of discussion per week. Prerequisites: COEM 3001.

This course is designed to give students a comprehensive view of business communication. Stressing critical thinking and persuasion skills, Students will become proficient in formal written and oral communication strategies framed by ethical considerations. The multicultural nuance of today's globalized society is also emphasized and applied. This course is offered in face-to-face, hybrid and online modalities.

INCO 4045 - Business Communication in Multicultural Environments

Three credits. Three hours weekly of conference. Previous requisite: INCO 4008 or its equivalent. The values and characteristics of diverse cultural groups in Puerto Rico as they are applied in business communication is the topic under study. A theoretical framework of nonverbal communication and its intercultural variations applied to specific business environments is presented. This course is offered in face-to-face, hybrid and online modalities.

INCO 4101 - Business Communication and Ethics

Three credits. Three hours weekly of conference.

An interdisciplinary and transdisciplinary course that links the related fields of philosophy, business communication, and ethics. It familiarizes students with relevant works of philosophy on various aspects of ethics. The assigned readings will enable students to explore, analyze, and contextualize assigned readings. Key business communications concepts and situations will be discussed, stemming from the essays discussed in class. Among other things, students will become acquainted with concepts such as ethics, agency, responsibility, and knowledge. This course is designed for students to assess ethical issues relating to business, business communications, and society. This course is offered in face-to-face, hybrid and online modalities.

INCO 4102 - Crisis communication

Three credits. Three hours weekly of conference.

Study of the planned and contingent crisis communication processes that links stakeholders before, during and after a crisis. Allows for discussing and problematizing the various crisis communication theories. Its case study approach enables students to apply these theories as epistemology, a way of knowing and thinking, and to devise communication strategies aiming at preparing for and reducing, limiting, and responding to crisis management issues. Face-to-face, online and hybrid course. This course is offered in face-to-face, hybrid and online modalities.

INCO 4103 - Design thinking and storytelling for business communication

Prerequisite: INGL3101-3102.

A design thinking and storytelling course to create innovative, effective, and sustainable solutions for business communication in the technological savvy workplace. The course focuses on qualitative research skills, business communication and oral narrative creation skills. This course is offered in face-to-face, hybrid and online modalities.

INCO 4104 - Business communication technologies:
webinars, augmented reality, and artificial intelligence

Prerequisite: INGL3101-3102.

A course to plan, design, produce and evaluate webinars, artificial intelligence (AI) chat bots, and augmented reality (AR) interactive experiences for business communication. The course Introduces the student to the theory, practice, concepts, and methodologies for business communication content creation (written, oral visual, and nonverbal) for webinars, AR and AI. This course is offered in face-to-face, hybrid and online modalities.

INCO 4998 - Co-op Experience in English (Disney College)/Experiencia de Educación Cooperativa en Inglés (Disney College)

Two to four credits. 20 to 40 hours of supervised practice per week. Regular session: 20 to 30 hours per week - 3 credits, 31-40 hours per week - 4 credits. Summer session: 20 or more hours per week for 7 weeks - 2 credits; 300 or more hours in total - 3 credits. Prerequisite: have completed 2 years of undergraduate studies, INCO 3005 or INCO 3007, and have a minimum average of 2.5.

Advanced experience in the application of the theoretical and practical skills of the processes of business communication in English in an employment where the first language is English, preferably full-time, paid and under academic supervision.

LEGA 4005 - Legal Aspects of Business

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

Introduction and analysis of general principles of law, legislation, jurisprudence and doctrines that have an impact on individuals, businesses and society. It deepens the study of the legislation and jurisprudence that regulate commercial activity when starting, operating and maintaining a company, both nationally and internationally. Legal issues are integrated with practical situations promoting ethical and socially responsible behavior of future entrepreneurs, executives or employees of a company. This course is offered in face-to-face, hybrid and online modalities.

MECU 3031 - Quantitative Methods for Business Administration I Three credits, three hours per week, duration one semester. Prerequisite: Have scored 610 points or higher on the Mathematics portion of the College Board College Admission Test (PAA) or have passed the Math Skills for Business Administration (MECU 1000) course.

Pre-calculus course. Study of functions, particularly linear, quadratic, rational, partial, exponential, and logarithmic functions. Algebra of matrices and solution of systems of equations by the reduction method. Emphasis on the application of these concepts in the solution of business management problems such as: trend, rate of change, optimization (revenue, profit, cost), tie point, equilibrium point, financial mathematics, preparation of graphical schemes and linear programming by the graphical method.

MECU 3032 - Quantitative Methods for Business Administration II Three credits, three hours per week, duration one semester. Prerequisite: Pass Quantitative Methods for Business Administration I (MECU 3031) with C or higher.

Introductory course in Differential Calculus for business administration students. Study of the concepts of limit and continuity, the derivative of a function and the rules of differentiation of functions of an independent variable. Emphasis on applications of continuous interest, marginal analysis, function optimization, and curve tracing. Introduction to Integral Calculus.

MECU 3035 - Finite Mathematics and Precalculus for Business Administration

Three credits. The course requires three (3) hours per week of class time and one

(1) hour of lab time. The lab does not carry credit. Prerequisite: Have scored less than 650 points on the math achievement portion of the test administered by the College Entrance Examination Board.

Linear equations are studied in two variables (graphs, line slope and applications); systems of linear equations in two variables (different solution methods and their applications); matrices (basic definitions, operations, solution of systems of linear equations by the reduction method); and linear programming. Emphasis is given to the concept of function and linear, quadratic, rational, square root, absolute value, departure, exponential and logarithmic functions are studied (domain, scope, evaluation, intercept, graph and applications to different areas of business administration).

MECU 4001: Quantitative Methods for Business Administration IV

Three credits, three hours per week of lecture and practice. Prerequisite: MECU 3032.

Transcendental functions, techniques of integration and functions of two or more variables. Business applications.

MECU 5001 Quantitative methods for finance and economics I

Three credits. Three hours of lecture per week.

Prerequisite: MECU 3032

This course will cover mathematical and computational techniques relevant to economics and finance. the topics studied sequences, matrices and least-squares problems. Each topic will be motivated by an applied problem. At the end of the discussion of each major topic; the student will apply the learned concepts to solve the given problem.

MERC 3115 - Principles of Marketing

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

Prerequisite: ADMI 4005.

Introduction to the marketing process as a managerial function. Emphasis on the strategic role of marketing in the value creation process of the company, whether it is a new venture, a small, large national or international company. It also considers the analysis, planning, implementation, organization and control of marketing programs, the role of marketing in society and the marketing decision-making process considering the laws and regulations that regulate marketing and respecting fundamental ethical principles. This course is offered in face-to-face, hybrid and online modalities.

MERC 4010 - Consumer Conduct

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: MERC 3115.

Study of the psychological, social, personal and cultural factors that influence the behavior of consumers in their decision process to purchase products or services. Emphasis on the use of this knowledge in the design of marketing strategies. This course is offered in face-to-face, hybrid and online modalities.

MERC 4025 - Quantitative Methods in Marketing

Three credits. Three hours of lecture a week. Prerequisite: MERC 3115, MERC 4227 and ADMI 4006.

Expansion of the techniques used in the market research process. It includes model examination, use of Bayesian probabilities, statistical testing.

MERC 4027 - Advertising

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: MERC 3115.

Analysis, design, implementation and control of advertising programs. Emphasis on the design and evaluation of creative strategies. This course is offered in face-to-face, hybrid and online modalities.

MERC 4028 - Price Management

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: MERC 3115.

Study of the price variable as an integral part of the marketing strategy. Emphasis on the need to find a price that is attractive to the consumer and at the same time contributes to the achievement of the company's marketing and financial objectives. This course is offered in face-to-face, hybrid and online modalities.

MERC 4115 - International Marketing

Three credits. Three hours of discussion a week. Prerequisite: MERC 3115.

Development and implementation of marketing strategies in a global/international context. Emphasis on the search for information and the analysis of variables that can affect marketing strategies at an international or global level. Analysis of the strategic implications of marketing decisions in different cultures. This course is offered in face-to-face, hybrid and online modalities.

MERC 4128 - Product Management

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

Prerequisite: MERC 3115.

Study and analysis of marketing strategies and tactics related to the development of new products and the different stages of the product life cycle. Emphasis on the analysis of the factors that contribute to the success or failure of products and on the design and implementation of marketing strategies and tactics.

MERC 4129 - Marketing of Services

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: MERC 3115. Study of marketing strategies used in the service industry. Analysis of how the unique characteristics of services affect the design and implementation of marketing strategies. This course is offered in face-to-face, hybrid and online modalities.

MERC 4130 - Promotion Management

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: MERC 3115.

Analysis, planning, implementation and control of promotional programs in the marketing of goods and services. Emphasis is placed on theories of communication, persuasion, and changes in attitudes and

perceptions. Emphasis is also placed on the use and management of traditional promotional tools, such as advertising and personal selling, as well as new tools and advances in the discipline. This course is offered in face-to-face, hybrid and online modalities.

MERC 4215 - Retail Sales Management

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: MERC 3115.

Development and implementation of marketing strategies in the context of retail business. Emphasis on the effective analysis of the environment in which the company competes and on the marketing strategies that derive from the changes that occur in that environment. Emphasis on studying retail business opportunities for small and medium-sized companies. This course is offered in face-to-face, hybrid and online modalities.

MERC 4219 - Intermediate Marketing

Three credits. Three hours of lecture a week. Prerequisite: MERC 3115, ADMI 4005, CONT 3005-3006 and ESTA 3041-3042, ESTA 3045.

Design of strategies and tactics, formulation of marketing policies; organization; demand analysis; product planning; pricing systems; Logistics and sales promotion in the management decision-making process. This course is offered in face-to-face, hybrid and online modalities.

MERC 4226 - Public Relations

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: MERC 3115.

The study of public relations as an integral part of the marketing strategies used by an organization. Emphasis on designing strategies and tactics used in public relations to support the marketing efforts of small and medium-sized businesses. This course is offered in face-to-face,

hybrid and online modalities.

MERC 4227 - Marketing Research

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: MERC 4010 and ESTA 3042 or ESTA 3045.

Study of concepts and applications in real situations of research processes, methods and techniques within an ethical and legal framework to understand consumer or market behaviors. The course entails the design of a research proposal that includes, among other elements, the identification of a problem, research methodologies, and the development of research instruments. It also entails the implementation of research with the collection and statistical analysis of data through the use of specialized programs to arrive at recommendations aimed at guiding the managerial decision-making process in the company. This course is offered in face-to-face, hybrid and online modalities.

MERC 4235 - Marketing Internship

Three credits. Twelve hours of practice per week. Prerequisite: 12 credits in marketing courses. Hands-on experience of theory and concepts learned in the classroom that relates to effective marketing management in organizations through 180 hours of work in an assigned center. Advice and teacher supervision in the incorporation of students into the world of work. This course is offered in face-to-face, hybrid and online modalities.

MERC 4250 - Strategic Marketing Management

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: MERC 3115, MERC 4010, FINA 3106.

This course integrates and applies in a practical and innovative way previous knowledge of the marketing process in the strategic context of an organization and the obtaining or achievement of its organizational objectives. Its approach will be based on the creation and delivery of value to the consumer with the purpose of establishing profitable relationships that last in the long term. In addition, the course will consider key elements such as the organizational structure, the resources and capabilities of the company and its strategic positioning to create, capture and sustain the competitive advantage that contributes to organizational success. Other relevant topics in strategic development will be market analysis, marketing mix strategies, marketing segmentation, innovation, and ethics and social responsibility in companies. This course is offered in face-to-face, hybrid and online modalities.

MERC 4998 - Marketing Cooperative Education Experience Two to four credits. Supervised practice. Prerequisite: Have completed two years of undergraduate study (60 credits or more) minimum GPA 2.5

Hands-on experience applying technical theoretical knowledge of the marketing field in a job, preferably full-time, that is paid and under academic supervision. This course is offered in face-to-face, hybrid and online modalities.

MERC 5995 - Seminar on Contemporary Issues in Marketing Three credits. Prerequisites: MERC 3115. Graduate students will require permission from the head of the management department.

Study of contemporary issues that directly affect marketing strategies. Analysis of new theories, methods and techniques related to this field in the different areas of marketing. Emphasis will be given to research and its importance in current situations and problems that require immediate attention, both by professionals in the marketing world, and by the prevailing conditions in the marketing environment in general. Students may enroll in up to two seminars, as long as the course topic is not the same.

REHU 4405 - Human Resources Management

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: ADMI 4005.

Introduction to the various theories, strategies, practices, methods, and techniques related to effective human resource management. Social, ethical, and legal aspects are considered in relation to decision-making in the field of human resources, including the existing normative body in Puerto Rico. Recognizing the importance of human talent in the establishment, development and success of organizations, its strategic role in entrepreneurship as a fundamental competency that drives innovation in the organizational context is discussed. This course is offered in face-to-face, hybrid and online modalities.

REHU 4406 - Labor-Management Relations

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: REHU 4405.

Analysis of the dynamics of union-employer relations in organizations in both the U.S. and the

U.S. from their origins to the present. Emphasis on the study of

structures of the parties involved in labor-management relations, as well as the strategies used by each of them in the fulfillment of their functions. Introduction to the basic processes related to collective bargaining, the administration of collective agreements and their relationship with the non-union sector.

REHU 4407 - Compensation Systems

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: REHU 4405.

Introduction to the design, implementation and administration of an effective compensation system. Emphasis on organizational diagnosis in terms of internal and external influences as a prelude to the design and management of a compensation system.

REHU 4408 - Organizational Conduct

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: ADMI 4005. Study of human behavior in the organizational context and how it can be executed individually or within a group or work team. It offers a complete perspective of application in large comparisons, as well as in SMBs. It emphasizes the development of the competencies that people need to fulfill roles as an employee, member or leader of a work team or be a manager of large or small organizations. Understanding organizational concepts, practices, theories, and processes contributes to improving organizational performance. This course is offered in face-to-face, hybrid and online modalities.

REHU 4409 - Human Relations

Three credits. Prerequisite: PSIC 3005.

Behavioral concepts and theories of human relations allow us to understand the nature of interpersonal relationships in organizations. It promotes the understanding of the human side of organizations in today's work context and practices student introspection to develop and apply skills and attitudes that pursue optimal interpersonal relationships, applicable in the organizational context, as well as the personal one. Teamwork in this course represents a fundamental context for the student to practice and apply the development of human skills and optimal interpersonal relationships. The course is dynamic and interactive and promotes learning through high-impact practices. This course is offered in face-to-face, hybrid and online modalities.

REHU 4415 - Collective Bargaining and Dispute Resolution Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: REHU 4405 and REHU 4406.

Exposure to the process of negotiating a collective bargaining agreement applying the labor- management legislation in force in P.R., specifically the Federal Labor-Management Relations Act of 1947 (Taft Hartley) and the P.R. Labor Relations Act of 1945 (Act 130). Study of the different strategies applied to the collective bargaining process and the methods of resolving conflicts or disputes between workers and employers. This course is offered in face-to-face, hybrid and online modalities.

REHU 4418 - Industrial/Organizational Psychology

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: PSIC 3005.

Emphasis on the basic principles of psychology that apply to situations and problems that affect human resource management and that contribute to the effective functioning of an organization. Application of scientific methodology to the development and administration of instruments for measuring and evaluating organizational influences on behavior. This course is offered in face-to-face, hybrid and online modalities.

REHU 4419 - Labor Legislation and Jurisprudence

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: ADMI 4005, REHU 4405.

Analysis of labor and social legislation (federal and local) and how it affects business decision- making. Study and analysis of the jurisprudence that has been resolved by the Supreme Court and its effects on organizations. It stresses the importance of labor legislation, in particular labor protection legislation. This course is offered in face-to-face, hybrid and online modalities.

REHU 4435 - International Human Resources Management

Three credits. Three hours of discussion a week. Prerequisite: ADMI 4005 and REHU 4405. Study of human resources management and how it is applied in different countries and continents around the world. Development of a global and at the same time comprehensive vision of the modern human resources professional. This course is offered in face-to-face, hybrid and online modalities.

REHU 4436 - Employee Recruitment and Selection

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: REHU 4405.

Study of models and strategies for the recruitment and selection of internal and external job candidates. Emphasis on planning and implementing effective strategies to identify short- and long-term recruitment needs and select candidates with the required competencies in competitive organizations. This course is offered in face-to-face, hybrid and online modalities.

REHU 4437 - Employee Training and Development

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisites: REHU 4405.

Study of learning theories and strategies that contribute to the effective creation, implementation, and evaluation of managerial and non-managerial employee training and development programs. Emphasis on techniques that contribute to the achievement of individual and organizational goals that affect effective talent management, good performance, productivity, and employee satisfaction in competitive organizations. This course is offered in face-to-face, hybrid and online modalities.

REHU 4450 - Internship in Human Resources Management

Three credits. Twelve hours of supervised practice per week. Prerequisites: REHU 4405, 4407, 4419.

Hands-on experience of theory and concepts learned in the classroom that relate to effective

human resource management in organizations through 180 hours of work in an assigned center. It involves advising and supervising teachers in the incorporation of the student into the labor market. This course is offered in face-to-face, hybrid and online modalities.

REHU 4998 - Cooperative Education Experience in Human Resource Management

Two to four credits. Supervised practice. Prerequisite: have completed two years of undergraduate study (60 credits or more); Minimum GPA 2.5.

Hands-on experience in applying theoretical knowledge from the field of human resources at work preferably full-time, paid and under academic supervision. This course is offered in face-to-face, hybrid and online modalities.

REHU 5005 - Seminar on Contemporary Issues in Human Resources Management

Three credits. Three hours of seminar per week. Prerequisites: REHU 4405, REHU 4407, REHU 4419.

Study of contemporary aspects or trends that directly affect effective human resources management. Analysis of new theories, methods, and techniques related to the field in the areas of managerial and strategic planning, job analysis, recruitment, personnel selection, performance evaluation, compensation, training, personnel discipline, labor-management relations, or occupational safety and health within domestic and global economic contexts.

SICI 3211 - Fundamentals of Information Systems

Three credits. Three hours of lecture a week and practice.

This course discusses the fundamentals of computerized information systems in the

enterprise. It studies the strategic importance of these systems, the support they offer and their role in operations, decision-making and competitive advantages, as well as their influence on the management of the company and the global economy. It also studies computer and communication technologies, information as a critical resource in the organization, the process of systems development, the social and ethical aspects associated with the use of technology and professional development. Students prepare practice exercises using productivity tools and operating systems. This course is offered in face-to-face, hybrid and online modalities.

SICI 3245 - Technological Infrastructure for Information Systems

Three credits. Three hours of lecture and practice. Prerequisite: SICI 3211.

Study of the main components of the technological infrastructure on which information systems operate, emphasizing the functional aspects. Orientation towards the preparation of technological configurations on which information systems can be implemented, both for small and large companies. Also, towards the installation and configuration of equipment and operating systems.

SICI 3255 - Application Programming

Three credits. Three hours per week of lecture and practice. Prerequisite: SICI 3211.

Steps in program preparation, basic operations of an algorithm, input and output, arithmetic operations, control operations, variables and expressions, handling of non-numerical data, user

interface and process design, data validation, program debugging , program structuring, use of arrays, organization and structure of data, file processing. Students practice the concepts and techniques discussed in class by preparing programs using a visual and object-oriented tool. Orientation towards the use of a visual and object-oriented tool, to practice concepts and techniques, and to practice the preparation of processes common to the systems.

SICI 4016 - Physical Design and Implementation of Systems using Database Management Systems

Three credits. Three hours per week of lecture and practice. Prerequisite: SICI 4025: Analysis and Logical Design of Systems.

Design of the physical components of a computerized information system, design of the database, processes, reports, screens and forms, special considerations for the design of the various components, standardization, refinement and administration of the database, design tools, preparation of the components of the system using a database management system, unit testing, system integration and acceptance testing, system documentation, data cleaning and conversion, user training. Orientation towards the physical design, preparation of the system components and the implementation of the system using the facilities provided by the database management systems. This course is offered in face-to-face modalities.

SICI 4025 - Analysis and Logical Design of Systems

Three credits. Three hours per week of lecture and practice. Prerequisites: SICI 3255.

Study of the life cycle and feasibility of the system, analysis of processes, logical design, determination of requirements and evaluation of alternatives (acquisition versus development). Students put into practice techniques and tools to collect data and model processes. Study of administrative aspects such as project organization, cost estimates and implementation plans;

Organizational aspects such as user participation, management support, change management, and group work. Orientation towards the analysis of operations, the design of new ways of carrying out processes in the company and the preparation of requirements for systems that support these new ways of operating.

SICI4215 - Business Intelligence and Analytics

Three credits. Three hours per week of lecture and practice. Prerequisite: SICI 4015.

This course discusses business intelligence technology with an emphasis on: tools and techniques for data integration, data quality assurance, analysis, reporting, and visualization for informed decision-making.

SICI 4266 - Physical Design and Implementation of Systems Using Emerging Tools

Three credits. Three hours per week of lecture and practice. Prerequisite: SICI 4025.

Design, programming, and testing of the physical components of a computerized information system to meet the needs of the organization. It focuses on physical design, program preparation, and system

implementation, using emerging programming tools that support the development of applications with a global reach.

SICI 4275 - Controls and Security in Computerized Information Systems

Three credits. Three hours per week of lecture and practice. Prerequisite: SICI

4015 or SICI 4266 or SICI 4405. Requirement: A face-to-face course of fifteen (15) meeting hours and zero (0) credit in substitution of the Business Ethics course (ADMI 4416). Ethics-related applications in computerized information systems will be discussed.

Study of the control and security measures that must be in place in an organization's systems operations, and the measures to recover in the event of incidents that cause loss of data and computing resources.

SICI 4278 - Project Management and Administrative Aspects of Systems

Three credits. Three hours of lecture and practice. Prerequisite: SICI 4015 or SICI 4266 or SICI 4405.

Study of project planning and management, emphasizing the determination of feasibility, the analysis of time and resources of activities or tasks. Students use a project planning and management tool to prepare project plans and to manage their implementation. The administrative aspects that affect the development, implementation and operation of information systems are also studied. The course is geared towards the preparation of a plan for a systems project, including the activities to be carried out, the dependencies between the activities, the time allotted and the resources required for each of them. This course will be offered under face- to-face and hybrid modalities.

SICI 4285 - Broad Data Communication Networks (WANs)

Three credits. Three hours of lecture and practice. Prerequisite: SICI 4286.

Means of transmission, for both wired and wireless networks, components of the OSI model, functions and characteristics of different communication equipment, typical configurations

and uses of a wide communication network, codes, modes

and transmission protocols, communication equipment, services and tariffs available for public networks, network security and availability, operation of the Internet network, network management concepts and techniques, equipment and systems for managing networks, organization and the operation of a network operating center. Orientation towards the design of large networks that serve as infrastructure for the operation of systems in the company.

SICI 4286 - Local Data Communication Networks (LANs)

Three credits. Three hours per week of lecture and practice. Prerequisite: SICI 3245.

Transmission media most commonly used today for both wired and wireless networks, components of the OSI model for communication, functions and characteristics of different types of communication equipment, typical configurations and uses of a local communication network, functions performed by local area network operating systems, important considerations to be taken into account when installing and configuring a local network, applications of communications networks, such as the Internet, and

"ebusiness" applications. Students will install and configure a small local network, including both the computer and operating system parts. Orientation towards the design of local networks that serve as infrastructure for the operation of systems in the company.

SICI 4405 - Design and implementation of Electronic Business

Three credits. Three hours of lecture a week. Prerequisite: SICI 4025.

Strategies and technologies available to implement and operate an e-business, marketing and sales strategies, concepts and techniques related to virtual auctions, virtual communities and portals, legal, ethical and tax framework that applies to e-business, payment methods, confidentiality and security, technological products that support the implementation of e-business, important steps and considerations in the planning of an e-business. Students will prepare a plan for implementing an e-business. Orientation towards the implementation of an e-business by students, whether it is the sale of goods or the provision of services.

SICI 4465 - Seminar on Information Technology Standards

Three credits, three hours per week of lecture and practice. Prerequisites, co-requisites and other requirements: SICI 3211 or equivalent or practical experience. The course will serve as an elective aimed at students in the Computerized Information Systems major. It will serve as a free elective for students in the College of Business Administration or other faculties.

This course studies the existing policy base around communications and computer technologies and examines areas not served by the existing policy base. The normative context is first established through the study of the relevant norms and their hierarchy. It discusses, among others: the rules associated with the issues of restrictive trade practices, telecommunication technologies, the various forms of intellectual property protection, the responsibility faced by professionals in civil and criminal aspects, and the challenges to the professions in the face of a changing and complex regulatory world. The course culminates with real-world case studies in the context of computerized information systems in the organization.

SICI 4998 - Cooperative Education Experience

Two to four credits. Regular academic semester: student must work 20-30 hours per week for three credits. 31-40 hours per week for four credits. Summer session: student must work at least 20 hours per week for two credits, and more than a total of 300 hours for three credits.

Prerequisites: have completed two years of undergraduate studies with a minimum grade index of 2.5. experience of applying theoretical knowledge of information systems by working full time or part time in the business, getting paid and with academic supervision. The course will be full time for the student when it is a 4 credits section.

SICI 5015- Big Data Concepts and Applications

Three credits, three hours per week of lecture and practice. Prerequisites: Have passed the following courses: SICI 4015 - Physical Design and Implementation Using

Databases (or its equivalent) and ESTA 3042- Statistics for Business Administration II.

Study and practical use of technology, tools and techniques for the management and analysis of large volume data and a variety of formats (Big Data). Technology for distributed or elastic capture and storage of large data received in *both batch* and *streaming formats.* Parallel processing and tools for analysis of this type of data. Machine *learning and* its use for *big data analysis.* Algorithms for *big data* analytics such as predictive and prescriptive. Analysis of semi-structured and unstructured data such as text and images.

SICI 5250 - Enterprise Information Systems (ERP)

Three credits, 3 hours per week of lecture and practice. Prerequisites: SICI 3211: Fundamentals of Information Systems or its equivalent; CONT 3105: Introduction to the Fundamentals of Accounting or its equivalent. Graduate students must have permission from their program director.

The characteristics of enterprise information systems are studied, as well as their importance in organizations and the resources that these systems require to operate effectively. It discusses the steps required to implement a business information system, the tasks that make up each of these steps, and the resources involved in them. It also explains the modules that business information systems typically contain, the functions they perform, the data they require to perform those functions, and how these modules relate to each other. The course is oriented towards the research and application of the concepts and techniques studied in class, through the preparation of a project to configure and implement a business information system using a tool used in industry, such as SAP.

COLLEGE OF NATURAL SCIENCES

Website: http://natsci.uprrp.edu/
Tel. (787)764-0000, ext. 87903, 87902
Email: decanato.fcn@upr.edu
Postal Adress
Facultad de Natural Sciencess
Edificio Fase II
17 Ave. Universidad STE 1701
San Juan, PR 00925-2537

Administration

Interim Dean: Dr. Carlos Corrada Bravo
Associate Dean of Academic Affairs: Dra. Julia Vélez González
Associate Dean of Student Affairs: Profa. Agnes Vázquez Morales
Associate Dean of Graduate and Research Programs: Dr. Valentín Keyantuo
Associate Dean of Administrative Affairs: Sr. Carlos Pereira
Department Chairs
Biology Department Chair: Dra. Carmen S. Maldonado Vlaar
Physics Department Chair: Dr. José F. Nieves Vázquez
Math Department Chair: Dra. María E. Pérez Hernández
Computer Science Department: Dr. Rémi Mégret
Interim Director Chemistry Department: Dr. Liz M. Díaz Vázquez
Environmental Science Department: Dr. Jess K. Zimmerman Earp
Program/area coordinators
Interdisciplinary Program: Dra. Elizabeth A. Dvorsky Sosa
Nutrition and Dietetics Program Director: Dra. Brenda Toro Enríquez

History

The College of Natural Sciencess is composed of the departments of Biology, Physics, Mathematics, Chemistry, Computer Science, and Environmental Sciences, as well as the Interdisciplinary Program and the Nutrition and Dietetics Program.

The College of Natural Sciencess originated from the Science Program established in 1910. It was officially founded as a College on July 16, 1943, as part of the university's reform approved by the Higher Council of Education.

In 1960, the Higher Education Council approved the creation of Master of Science programs in Biology, Physics, and Chemistry, and a Master of Arts in Mathematics. A decade later, the Doctor of Philosophy degree was authorized with specializations in Chemistry and Environmental Maintenance Sciences, now known as Environmental Sciences. In 1981, Ph.D. programs in Biology and in Physics-Chemistry were approved. In 1989, the Master of Arts in Mathematics was renamed the Master of Science.

In 1994, the Bachelor of Science in Computer Science was established. During the 1999–2000 academic year, the Ph.D. program in Mathematics was approved. In 2022, a Master of Science in Computer Science was launched, followed by a Master of Science in Nutrition and Dietetics in 2023.

Recognitions and Accreditations

- The undergraduate program in the Department of Chemistry is certified by the **American Chemical Society (ACS)**. Students in the program receive a certificate from the organization and are eligible for membership upon meeting its requirements.
- The **Bachelor of Science in Nutrition and Dietetics** is accredited by the **Accreditation Council for Education in Nutrition and Dietetics (ACEND)**.
- The **Computer Science Program** is accredited by the **Accreditation Board for Engineering and Technology (ABET)** and the **Computing Accreditation Commission (CAC)**.

Degrees Offered

Bachelor of Science with majors in:

- Biology
- Environmental Sciences
- Computer Science
- Interdisciplinary Studies
- Physics
- Mathematics
- Chemistry
- Nutrition and Dietetics

Master of Science with specializations in:

- Biology
- Environmental Sciences
- Computer Science
- Physics
- Mathematics
- Nutrition and Dietetics
- Chemistry

Doctor of Philosophy (Ph.D.) with specializations in:

- Biology
- Computer Science
- Physics-Chemistry
- Chemistry
- Mathematics
- Environmental Sciences

Student Services

- **Teaching Laboratories** – 37 labs support undergraduate courses, focusing on learning basic laboratory methods and techniques and applying the scientific method in practical contexts.
- **Information and Technology Center (CITec)** – Offers integrated services including a library, computer centers, material reproduction, technology equipment loans, and individual and group study rooms.
- **Néstor M. Rodríguez Rivera Library** – Part of CITec.
- **Student Technology Services** – Located within CITec.
- **Tutoring Services** – Tutoring is available for core and other science and math courses, administered by CITec.
- **Advising Services**:
    - General advising through the Office of Student Affairs of the College of Natural Sciencess
    - Academic evaluation through departments and academic programs

Student Research Opportunities

(Funded by long-standing external grants)

- **Minority Access to Research Careers (MARC)**
- **Research Initiative for Scientific Enhancement (RISE)**
- **Neuroscience Research Opportunity to Increase Diversity (NeuroID)**
- **Puerto Rico Louis Stokes Alliance for Minority Participation (PR-LSAMP)**

Research Centers and Facilities
The Faculty of Natural Sciencess houses **75 research laboratories** that support ongoing research activities, contribute to the continuous production and broad dissemination of knowledge, and provide training for students across various scientific disciplines. In addition, the Faculty includes the following specialized centers and facilities:

- **Vulnerability Analysis and Emergency Response for Small Water Systems**
- **Arbimon** – a web-based network for storing, sharing, and analyzing acoustic data
- **Academics and Trainers for the Advancement of Cybersecurity Knowledge in Puerto Rico (AtackPR)**
- **Materials Characterization Center (MCC)**
- **Center for Applied Tropical Ecology and Conservation (CREST-CATEC)**
- **Center for Renewable Energy and Sustainability**
- **Puerto Rico Environmental Neuroscience Center (PRCEN)**
- **Center for Innovation, Research, and Education in Environmental Nanotechnology (CIREN)**
- **Puerto Rico Astrophysics Circle**
- **CPATH** – integrating parallel computational thinking into the four-year undergraduate computer science curriculum
- **Cybersecurity and Coding Theory Laboratory (CS Lab)**
- **Bioinformatics and Cybersecurity Laboratory (MegaProbe Lab)**
- **Emmy Noether Lab**
- **EnviroMentors**
- **El Verde Field Station** – located in El Yunque National Forest
- **X-ray Diffraction and Crystallography Facilities**
- **Confocal Microscopy Facilities**
- **Nanoscopy Facilities**
- **Monoclonal Antibody Production Facilities**
- **Nuclear Magnetic Resonance Facilities**
- **Materials Characterization and Synthesis Facilities (Speclab)**
- **Sequencing and Genotyping Facilities**
- **University of Puerto Rico Herbarium – Río Piedras Campus**
- **Increasing Diversity in Interdisciplinary Big Data Knowledge (IDI-BD2K)**
- **Animal Care Facility**
- **Institute of Functional Nanomaterials**
- **Bioinformatics Laboratory**
- **Theoretical Physics Laboratory**
- **Advanced Materials Research Laboratory (SPECLAB)**
- **Community Tropical Ecology Laboratory (TCEL)**
- **Zoology Museum**
- **PRNets**
- **Kavita Project**
- **Puerto Rico Space Grant Consortium**
- **RC-Lab**

Admission Requirements
Readmission
To apply for readmission to the College of Natural Sciencess, applicants must have a **minimum GPA of 2.0**. Priority is given to students previously classified within the College. Each case is evaluated

individually and may require an interview. Admission is subject to space availability in the desired major.

Reclassification

First-Year Students must have passed **MATE 3151 (Calculus I)** with a grade of **A or B**. This applies to all majors. Additional requirements by major:

- **Biology** – GPA of 3.5 and completion of one of the following: BIOL 3101, BIOL 3102, or QUIM 3001
- **Computer Science** – GPA of 3.0
- **Environmental Sciences** – GPA of 3.0 and completion of CINA 3005
- **Physics** – GPA of 3.0
- **Mathematics** – GPA of 3.0
- **Nutrition and Dietetics** – Requires program approval
- **Interdisciplinary Program** – GPA of 3.5 and completion, with grade A or B, of one of the following courses and its corresponding lab: BIOL 3101, BIOL 3102, QUIM 3001, or FISI 3011–FISI 3013
- **Chemistry** – GPA of 3.5 and completion, with grade A or B, of QUIM 3001 and QUIM 3002

Second-Year Students and Beyond – All majors require a **general GPA of 3.0** and a **GPA of 3.0 in science and mathematics courses**. Specific requirements by major were not included in your message—feel free to share them if you'd like those translated too!

Major-Specific Requirements for Reclassification and Transfer

Biology

- **GPA**: 3.0 overall and 3.0 in science and math
- **Mathematics**: Calculus I (MATE 3151) – 4 credits, grade of C or higher
- **General Sciences**: 8 credits total
    - Biology I & II (BIOL 3101, 3102) – 4 credits each (course and lab), grade of A or B
    - Alternatively: BIOL 3102 (4 credits, grade A or B), QUIM 3001 (4 credits, grade C or higher), and/or FISI 3011 & FISI 3013 (course – 3 credits, lab – 1 credit, grade C or higher)

Chemistry

- **GPA**: 3.0 overall and 3.0 in science and math
- **Interview**: Required with Academic Advisor
- **Mathematics**: MATE 3151 (4 credits)
- **General Sciences**: QUIM 3001 and QUIM 3002 – 4 credits each, grade A or B

Physics

- **GPA**: 3.0 overall and 3.0 in science and math
- **Interview**: Required with Academic Advisor
- **Mathematics**: MATE 3151 and MATE 3152 – 4 credits each, grade A or B

Interdisciplinary Program

- **GPA**: 3.0 overall and 3.0 in science and math
- **Interview**: Required with Program Director
- **Mathematics**: MATE 3151 (4 credits)
- **General Sciences**: 8 credits total
    - Biology I & II, Chemistry I & II, Physics I & II – 4 credits each including labs

Nutrition and Dietetics

- **GPA**: 3.0 overall and 3.0 in science and math
- **Program Approval**: Required
- **Mathematics**: MATE 3171 or equivalent (4 credits)
- **General Sciences**: QUIM 3001 (4 credits), BIOL 3101 or BIOL 3102 (4 credits)

Computer Science

- **GPA**: 3.0 overall and 3.0 in science and math
- **Mathematics**: MATE 3151 (4 credits, grade A or B)
- **Computer Science**: CCOM 3020 and CCOM 3030 – grade A or B

Mathematics

- **GPA**: 3.0 overall and 3.0 in science and math
- **Interview**: Required with Academic Advisor
- **Mathematics**: MATE 3151 and MATE 3152 – 4 credits each, grade A or B

Environmental Sciences

- **GPA**: 3.0 overall and 3.0 in science and math
- **Mathematics**: MATE 3151 (4 credits)
- **General Sciences**: 8 credits total
    - Biology I & II, Chemistry I & II, Physics I & II – 4 credits each including labs

Transfer and Internal Transfer Requirements

(Applies to students from other UPR campuses and external institutions)

- **Credits Completed**: Minimum of 30
- **GPA**: 3.0 overall and 3.0 in science and math

Additional Requirements by Major:

- **Biology**: Same as above, with Calculus I and Biology I & II (grade A or B)
- **Chemistry**: Same as above, with Calculus I and Chemistry I & II (grade A or B)
- **Physics**: 2.5 overall GPA, 3.0 in science and math; interview required; Calculus I & II (grade A or B)
- **Interdisciplinary Program**: Same as above; interview required; 8 credits in Biology, Chemistry, and Physics including labs
- **Nutrition and Dietetics**: MATE 3171, MATE 3172 or equivalent; Chemistry I and Biology I or II (4 credits each)
- **Computer Science**: Same as above; Calculus I and CCOM 3020, CCOM 3030 (grade A or B)
- **Mathematics**: Same as above; interview required; Calculus I & II (grade A or B)
- **Environmental Sciences**: Same as above; Calculus I and 8 credits in Biology, Chemistry, and Physics including labs

Graduation Requirements

The College of Natural Sciencess follows the guidelines established by the campus for awarding degrees. Students must meet a **minimum graduation GPA of 2.0**, as well as a **2.0 GPA in their major**, and be officially classified within the College granting the degree.

Some departments have additional curriculum-specific requirements, including:

- **Cellular, Molecular, and Integrative Biology** – Major courses must be passed with a grade of C or higher.
- **Interdisciplinary Science Program** – Directed science electives must be passed with a grade of C or higher.
- **Mathematics** – All tracks (Computational, Pure, and Discrete) require major courses, including MATE electives, to be passed with a grade of C or higher.
- **Physics** – Major courses must be passed with a grade of C or higher.
- **Nutrition and Dietetics** – All courses in both sections of the major component must be passed with a grade of C or higher.
- **Computer Science** – Major courses must be passed with a grade of C or higher.
- **Chemistry** – Major courses must be passed with a grade of C or higher; QUIM 3001 and QUIM

3002 must be passed with a grade of A or B.

ACADEMIC PROGRAMS

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCES

First Year

First Semester	Credits	Second Semester	Credits
ESPA (Spanish)	3	ESPA (Spanish)	3
ENGLISH	3	ENGLISH	3
MATE 3151 – 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 Conservation **or** CINA 4177 – Air Resources, Their Management and Conservation	2–3
Total	**17**	**Total**	**16–17**

Second Year

First Semester	Credits	Second Semester	Credits
LITE (Literature)	3	LITE (Literature)	3
ART (Arts)	3	MATE 3026 – Introduction to Computer Statistics	3
BIOL 3101 – General Biology I	4	CINA 4127 – Techniques Related to Environmental Management and Conservation	4
QUIM 3015 – Analytical Chemistry	4	CINA 4147 – Geophysics, **or** CINA 4157 – Terrestrial and Aquatic Resources of Puerto Rico, Their Management and Conservation, **or** CINA 4177 – Air Resources, Their Management and Conservation	2–3
CINA 4147 – Geophysics, or CINA 4157 – Terrestrial and Aquatic Resources of Puerto Rico, Their Management and Conservation, or CINA 4177 – Air Resources, Their Management and Conservation	2–3	ECON 3005 – Introduction to Economics	3
Total	**16–17**	**Total**	**15–16**

Third Year

First Semester	Credits	Second Semester	Credits
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	Major Elective	3
Total	**16**	**Total**	**17**

Fourth Year

First Semester	Credits	Second Semester	Credits
HUMA or CISO	3	HUMA or CISO	3
EGCN	3	CINA 4997 – Research	3
CINA 4071 – Environmental Science Seminar I	1	Free Electives	6
CINA 4997 – Research	3	Major Elective	3
Free Electives	6		
Major Elective	3		
Total	**16**	**Total**	**15**

Total Credits Required: 130 Credits

Directed Electives: Options to Choose From

CINA 5990 FISI 3017 CINA
419657 QUIM 3025 BIOL
3C1IN10A
3126

BACHELOR OF SCIENCE IN PHYSICS

First Year

First Semester	Credits	Second Semester	Credits
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 – Calculus I	4	MATE 3152 – Calculus II	4
QUIM 3001 – General Chemistry I	4	QUIM 3002 – General Chemistry II	4
Total	**17**	**Total**	**17**

Second Year

First Semester	Credits	Second Semester	Credits
FISI 3171 – Physics I	4	FISI 3172 – Physics II	4
FISI 3173 – Physics Laboratory I	1	FISI 3174 – Physics Laboratory II	1
ARTE – Arts	3	Free Elective	3
ENGLISH 3001, 3101, or 3111 – English I	3	ENGLISH 3002, 3102, or 3112 – English II	3
LITE – Literature I	3	LITE – Literature II	3
Directed Elective	3	Free Elective	3
Total	**17**	**Total**	**17**

Third Year

First Semester	Credits	Second Semester	Credits
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	Natural Sciences (CINA)	3
Natural Sciences (CINA)	3	FISI 4032 – Methods of Mathematical Physics	3
FISI 4031 – Methods of Mathematical Physics	3	Directed Elective	3
Directed Elective	3		
Total	**18**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
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 Electives	6	Directed Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
		Free Elective	3
Total	**17**	**Total**	**14**

Total Credits Required: 129 Credits

Directed Electives: Options to Choose From

FISI 4047 FISI 4049
FISI 4048 FISI 4055

ASTR 4006 FISI 4056
MATE 3153 FISI 4042
MATE 4019 QUIM 3025
MATE 4061 QUIM 4015
MATE 4062 FISI 5005
MATE 5037 METE 3901
MATE 4045 METE 3902
MATE 4009 ASTR 3055
MATE 4031 FISI 4058
CCOM 3030

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

First Year

First Semester	Credits	Second Semester	Credits
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 – Calculus I	4	CCOM 3033 – Introduction to Computer Programming	3
English I	3	English II	3
Spanish I	3	Spanish II	3
Social Sciences I	3	Social Sciences II	3
Total	**17**	**Total**	**17**

Second Year

First Semester	Credits	Second Semester	Credits
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 – Calculus II	4	MATE 4032 – Higher Algebra I	3
Humanities I	3	Humanities II	3
Science with Laboratory I	4	Science with Laboratory II	4
Total	**17**	**Total**	**16**

Third Year

First Semester	Credits	Second Semester	Credits
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	Mathematics Elective	3

Literature I	3	Literature II	3
Free Elective	3	Free Elective	3
		Arts	3
Total	**15**	**Total**	**18**

Fourth Year

First Semester	Credits	Second Semester	Credits
CCOM 5035 – Theory of Computability	3	CCOM 4087 – Compiler Design	3
CCOM Elective	3	CCOM Elective	3
Mathematics Elective	3	Free Elective	3
Natural Sciences Faculty Science I	3	Natural Sciences Faculty Science II	3
General Studies Faculty Science I	3	General Studies Faculty Science II	3
Total	**15**	**Total**	**15**

Total Credits: 130 Credits

Directed Electives: Options to Choose From

CCOM 5060, MATE 4995, CCOM 4016, CCOM 5677, CCOM 5026, CCOM 3986, CCOM 4996

BACHELOR OF SCIENCE IN MATHEMATICS

First Year

First Semester	Credits	Second Semester	Credits
MATE 3018 – Preparatory Course for Calculus and Analytic Geometry (MATE 3023 Precalculus I, MATE 3024 Precalculus II)	4	MATE 3151 – Calculus I	4
HUMA I – Humanities I	3	HUMA II – Humanities II	3
ESPA I – Spanish I	3	ESPA II – Spanish II	3
ENGLISH I	3	ENGLISH II	3
ART – Arts	3	CCOM 3030 – Introduction to Computer Science	3
Total	**16**	**Total**	**16**

Second Year

First Semester	Credits	Second Semester	Credits
MATE 3152 – Calculus II	4	MATE 3153 – Calculus 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 I	3		
Total	**17**	**Total**	**16**

Third Year

First Semester	Credits	Second Semester	Credits
MATE 5001 – Probability I	3	MATE 4009 – Ordinary Differential Equations	3
MATE 4032 – Higher 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 or CIFI 4005 – Comparative Views of the Origins of Physical Reality, Matter, and the Universe or ICFI 4995 – Interdisciplinary Issues in the Physical Sciences	3	CIBI 4105 – Seminar on Current Controversies in the Life Sciences **or** CIFI 4005 – Comparative Views of the Origins of Physical Reality, Matter, and the Universe **or** ICFI 4995 – Interdisciplinary Issues in the Physical Sciences	3
Free Elective II	3	Directed Elective I	3
Total	**16**	**Total**	**16**

Fourth Year

First Semester	Credits	Second Semester	Credits
MATE 5201 – Advanced Calculus 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	**16**	**Total**	**15**

Total Credits Required: 128 Credits

Directed Electives: Options to Choose From

MATE 4033
MATE 5205
MATE 4045
MATE 5037
MATE 4019

MATE 4089 (Geometry) MATE 5206
(Convex & Discrete Geometry)

BACHELOR OF SCIENCE IN NUTRITION AND DIETETICS

First Year

First Semester	Credits	Second Semester	Credits
ESPA (Spanish)	3	ESPA (Spanish)	3
INGL (English)	3	INGL (English)	3
CISO (Social Sciences)	3	HUMA (Humanities)	3
QUIM 3001 – General Chemistry I	4	QUIM 3002 – General Chemistry II	4
Total	13	Total	13
Summer Session	Credits		
HUMA (Humanities)	3		
ART (Arts)	3		
Total	6		

Second Year

First Semester	Credits	Second Semester	Credits
BIOL 3102 – General Biology II	4	BIOL 3101 – General Biology I	4
BIOL 3711	3	BIOL 3712	3
NUTR 4031	3	MATE 3026 – Introduction to Computer Statistics	3
NUTR 4040	3	NUTR 4050	3
ECON 3005 – Introduction to Economics	3		
Total	16	Total	13
Summer Session	Credits		
Elective	3		
NUTR 4225	1		
Total	4		

Third Year

First Semester	Credits	Second Semester	Credits
QUIM 3015 – Analytical Chemistry	4	NUTR 4158	3
NUTR 4075	3	NUTR 4159	1
CISO	3	CISO	3
CIBI 4105 or CIFI 4005/4995	3	BIOL 3705	4
Free Elective II	3	NUTR 4086	3
Total	16	Total	14

Summer Session	Credits		
NUTR 4170	2		
Total	2		

Fourth Year

First Semester	Credits	Second Semester	Credits
NUTR 4501	1	NUTR 4160	4
NUTR 4502	1	NUTR 4161	4
NUTR 4162	1	NUTR 4180	3
NUTR 4076	2	Elective	3
NUTR 4503	1	NUTR 4198	2
Total	6	Total	16
Summer Session	Credits		
NUTR 4163	4		
NUTR 4175	1		
Total	5		

Total Credits Required
Bachelor of Science in Nutrition and Dietetics: 127 Credits

BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES WITHOUT CALCULUS I

First Year

First Semester	Credits	Second Semester	Credits
English I	3	English II	3
MATE 3023 – Precalculus I	2	MATE 3024 – Precalculus II	2
Humanities I	3	Humanities II	3
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
CINA 3005 – Introduction to Environmental Science	3	Arts	3
Total	**14**	**Total**	**14**

Second Year

First Semester	Credits	Second Semester	Credits
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 I	3	Spanish II	3
Total	**15**	**Total**	**14**

Third Year

First Semester	Credits	Second Semester	Credits
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	Science Directed Electives	7
Science Directed Electives	4	Free Electives	6
Free Electives	6		
Total	**17**	**Total**	**17**

Fourth Year

First Semester	Credits	Second Semester	Credits
Science Directed Electives	7	Science Directed Electives	6
ED GEN CN	3	ED GEN CN	3
Literature I	3	Literature II	3
CNEI 4011 – Interdisciplinary Integration I	1	CNEI 4012 – Interdisciplinary Integration II	2
Free Elective	3	Free Elective	3
Total	**17**	**Total**	**17**

Total Credits Required: 125 Credits

BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES
WITH CALCULUS I

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	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 – Calculus I	4	MATE 3026 – Introduction to Computer Statistics	3
Total	**15**	**Total**	**14**

Second Year

First Semester	Credits	Second Semester	Credits
English I	3	English II	3

Humanities I	3	Humanities II	3
BIOL 3349 – Genetics	3	Arts	3
Science Directed Elective	4	CINA 3005 – Introduction to Environmental Science	3
		Science Directed Elective	4
Total	**13**	**Total**	**16**

Third Year

First Semester	Credits	Second Semester	Credits
Spanish I	3	Spanish II	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
Science Directed Elective	3	Science Directed Elective	3
CN General Education	3	CN General Education	3
Free Elective	3	Free Elective	3
Total	**16**	**Total**	**16**

Fourth Year

First Semester	Credits	Second Semester	Credits
Science Directed Electives	6	Science Directed Electives	4
Literature I	3	Literature II	3
CNEI 4011 – Interdisciplinary Integration I	1	CNEI 4012 – Interdisciplinary Integration II	2
Free Electives	6	Free Electives	6
Total	**16**	**Total**	**15**

Total Credits Required: 121 Credits

BACHELOR OF SCIENCE IN CHEMISTRY

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3

QUIM 3001 – General Chemistry I	4	QUIM 3002 – General Chemistry II	4
ESPA – Spanish I	3	ESPA – Spanish II	3
ENGLISH I	3	ENGLISH II	3
MATE 3151 – Calculus I	4	MATE 3152 – Calculus II	4
Total	**17**	**Total**	**17**

Second Year

First Semester	Credits	Second Semester	Credits
QUIM 3451 – Organic Chemistry I	4	QUIM 3452 – Organic Chemistry II	4
LITE – Literature I	3	LITE – Literature II	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
Total	**14**	**Total**	**14**

Third Year

First Semester	Credits	Second Semester	Credits
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 Course	3	MATEQUIM	4
CIBI/CIFI 4000	3	CIBI/CIFI 4000	3
Free Elective	3	Free Elective	3
Total	**17**	**Total**	**17**

Fourth Year

First Semester	Credits	Second Semester	Credits
ARTE – Arts	3	QUIM 4000 – Organic Chemistry	3
QUIM 4041 – Physical Chemistry I	3	QUIM 4042 – Physical Chemistry II	3
QUIM 4043 –	2	QUIM 4044 –	2

Intermediate Laboratory I		Intermediate Laboratory II	
Directed Elective	3	Directed Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total	**17**	**Total**	**14**

Total Credits Required: 130 Credits

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

BACHELOR OF SCIENCE IN BIOLOGY

Integrative Biology Emphasis, Students Entering with Precalculus

Year I – First Semester	**Credits**	**Year I – Second Semester**	**Credits**
General Chemistry I (QUIM 3001)	4	General Chemistry II (QUIM 3002)	4
General Biology: Biodiversity (BIOL 3102)	4	General Biology: Introduction to Cell and Molecular Biology (BIOL 3101)	4
Calculus (MATE 3151)*	4	Statistics (MATE 3026)	3
Social Sciences (CISO XXXX)	3	Social Sciences (CISO XXXX)	3
English I (INGL XXXX, Level 5)	3	English II (INGL XXXX, Level 5)	3
Total	**18**	**Total**	**17**

Year II – First Semester	**Credits**	**Year II – Second Semester**	**Credits**

Organic Chemistry I (QUIM 3031)	4	Organic Chemistry II (QUIM 3032)	4
Genetics (BIOL 3349)	3	Biochemistry or Molecular Cell Biology (BIOL 4545 or BIOL 4XXX)	3
Spanish I (ESPA XXXX, Level 5)	3	Spanish II (ESPA XXXX, Level 5)	3
Free Elective I	3	Free Elective II	3
Humanities I	3	Humanities II	3
Total	**16**	**Total**	**16**

Year III – First Semester	**Credits**	**Year III – Second Semester**	**Credits**
Physics I (FISI 3011–3013)	4	Physics II (FISI 3012–3014)	4
Ecology (BIOL 3111)	3	Evolution (BIOL 4345)	3
Biology Elective I	3	Biology Elective II	3
Biology Laboratory	1	Free Elective IV	3
Free Elective III	3	Literature II	3
Literature I	3		
Total	**17**	**Total**	**16**

Year IV – First Semester	**Credits**	**Year IV – Second Semester**	**Credits**
Arts	3	Biology Elective III	3
Animal, Plant, or Microbial Organismal Biology (BIOL 3410, 3420, or 3770)	4	Animal, Plant, or Microbial Organismal Biology (BIOL 3410, 3420, or 3770)	4
General Education Natural Sciences I	3	General Education Natural Sciences II	3
Free Elective V	3	Free Elective VI	3
Total	**13**	**Total**	**13**

Total Credits: 126

* One of the General Education courses in **Logical-Mathematical Reasoning** or **Quantitative Analysis** at the level required for students in the Faculty of Natural Sciences.

Integrative Biology Emphasis, Students Entering Without Precalculus

Year I – First Semester	Credits	Year I – Second Semester	Credits
General Chemistry I (QUIM 3001)	4	General Chemistry II (QUIM 3002)	4
General Biology: Biodiversity (BIOL 3102)	4	General Biology: Introduction to Cell and Molecular Biology (BIOL 3101)	4
Precalculus (MATE XXXX)*	4	Statistics (MATE 3026)	3
Social Sciences (CISO XXXX)	3	Social Sciences (CISO XXXX)	3
English I (INGL XXXX, Level 5)	3	English II (INGL XXXX, Level 5)	3
Total	**18**	**Total**	**17**

Summer I

Course	Credits
Calculus (MATE 3151)**	4
Total	**4**

Year II – First Semester	Credits	Year II – Second Semester	Credits
Organic Chemistry I (QUIM 3031)	4	Organic Chemistry II (QUIM 3032)	4
Genetics (BIOL 3349)	3	Biochemistry or Molecular Cell Biology (BIOL 4545 or BIOL 4XXX)	3
Spanish I (ESPA XXXX, Level 5)	3	Spanish II (ESPA XXXX, Level 5)	3
Free Elective I	3	Free Elective II	3
Humanities I	3	Humanities II	3
Total	**16**	**Total**	**16**

Year III – First Semester	Credits	Year III – Second Semester	Credits
Physics I (FISI 3011–3013)	4	Physics II (FISI 3012–3014)	4
Ecology (BIOL 3111)	3	Evolution (BIOL 4345)	3
Biology Elective I	3	Biology Elective II	3
Biology Laboratory	1		
Free Elective III	3	Free Elective IV	3
Literature I	3	Literature II	3
Total	**17**	**Total**	**16**

Year IV – First Semester	Credits	Year IV – Second Semester	Credits
Arts	3	Biology Elective III	3
Animal, Plant, or Microbial Organismal Biology (BIOL 3410, 3420, or 3770)	4	Animal, Plant, or Microbial Organismal Biology (BIOL 3410, 3420, or 3770)	4
General Education Natural Sciences I	3	General Education Natural Sciences II	3
Free Elective V	3	Free Elective VI	3
Total	**13**	**Total**	**13**

Total Credits: 130

* Precalculus does not count toward degree credits.

** One approved General Education course in Logical-Mathematical Reasoning or Quantitative Analysis at the level

required for students in the Faculty of Natural Sciences.

Molecular and Cellular Biology Emphasis, Students Entering with Precalculus

Year I – First Semester	Credits	Year I – Second Semester	Credits
General Chemistry I (QUIM 3001)	4	General Chemistry II (QUIM 3002)	4
General Biology: Biodiversity (BIOL 3102)	4	General Biology: Introduction to Cell and Molecular Biology (BIOL 3101)	4
Calculus (MATE 3151)*	4	Statistics (MATE 3026)	3
Social Sciences (CISO XXXX)	3	Social Sciences (CISO XXXX)	3
English I (INGL XXXX, Level 5)	3	English II (INGL XXXX, Level 5)	3
Total	**18**	**Total**	**17**

Year II – First Semester	Credits	Year II – Second Semester	Credits
Organic Chemistry I (QUIM 3031)	4	Organic Chemistry II (QUIM 3032)	4
Genetics (BIOL 3349)	3	Biochemistry or Molecular Cell Biology (BIOL 4545 or BIOL 4XXX)	3
Spanish I (ESPA XXXX, Level 5)	3	Spanish II (ESPA XXXX, Level 5)	3
Free Elective I	3	Free Elective II	3
Humanities I	3	Humanities II	3
Total	**16**	**Total**	**16**

Year III – First Semester	Credits	Year III – Second Semester	Credits
Physics I (FISI 3011–3013)	4	Physics II (FISI 3012–3014)	4
Biochemistry or Molecular Cell Biology (BIOL 4545 or BIOL 4XXX)	3	Organismal Biology: Plant, Animal, or Microbiology (BIOL 3410, 3420, or 3770)	4
Biology Laboratory I	1	Biology Elective I	3
Free Elective III	3	Free Elective IV	3
General Education Natural Sciences I	3	Literature II	3
Literature I	3		
Total	**17**	**Total**	**17**

Year IV – First Semester	Credits	Year IV – Second Semester	Credits
Advanced Course in Emphasis Area	3	Advanced Course in Emphasis Area	3
Biology Elective II	3	Biology Elective III	3
Biology Laboratory II	1	General Education Natural Sciences II	3
Free Elective V	3	Free Elective VI	3

Arts	3		
Total	**13**	**Total**	**12**

Total Credits: 126

* One approved General Education course in **Logical-Mathematical Reasoning** or **Quantitative Analysis** at the level required for students in the Faculty of Natural Sciences.

Molecular and Cellular Biology Emphasis, Students Entering Without Precalculus

Year I – First Semester	Credits	Year I – Second Semester	Credits
General Chemistry I (QUIM 3001)	4	General Chemistry II (QUIM 3002)	4
General Biology: Biodiversity (BIOL 3102)	4	General Biology: Introduction to Cell and Molecular Biology (BIOL 3101)	4
Precalculus (MATE XXXX)*	4	Statistics (MATE 3026)	3
Social Sciences (CISO XXXX)	3	Social Sciences (CISO XXXX)	3
English I (INGL XXXX, Level 5)	3	English II (INGL XXXX, Level 5)	3
Total	**18**	**Total**	**17**

Summer I

Course	Credits
Calculus (MATE 3151)**	4
Total	**4**

Year II – First Semester	Credits	Year II – Second Semester	Credits
Organic Chemistry I (QUIM 3031)	4	Organic Chemistry II (QUIM 3032)	4
Genetics (BIOL 3349)	3	Biochemistry or Molecular Cell Biology (BIOL 4545 or BIOL 4XXX)	3
Spanish I (ESPA XXXX, Level 5)	3	Spanish II (ESPA XXXX, Level 5)	3
Free Elective I	3	Free Elective II	3
Humanities I	3	Humanities II	3
Total	**16**	**Total**	**16**

Year III – First Semester	Credits	Year III – Second Semester	Credits
Physics I (FISI 3011–3013)	4	Physics II (FISI 3012–3014)	4
Biochemistry or Molecular Cell Biology (BIOL 4545 or BIOL 4XXX)	3	Plant, Animal, or Microbial Organismal Biology (BIOL 3410, 3420, or 3770)	4
Biology Laboratory I	1	Biology Elective I	3
Free Elective III	3	Free Elective IV	3
General Education Natural Sciences I	3	Literature II	3

Literature I	3		
Total	**17**	**Total**	**17**

Year IV – First Semester	Credits	Year IV – Second Semester	Credits
Advanced Course in the Emphasis Area	3	Advanced Course in the Emphasis Area	3
Biology Elective II	3	Biology Elective III	3
Biology Laboratory II	1	General Education Natural Sciences II	3
Free Elective V	3	Free Elective VI	3
Arts	3		
Total	**13**	**Total**	**12**

Total Credits Required: 130
* Precalculus does not count toward degree credits.
** One approved General Education course in **Logical-Mathematical Reasoning** or **Quantitative Analysis** at the level required for students in the Faculty of Natural Sciences.

TEACHING FACULTY AND ADMINISTRATIVE STAFF

Faculty Directory

Ackerman, James D.; Ph.D., Florida State University, 1981; Catedrático.
Adam, Waldemar; Ph.D., Massachusetts Institute of Technology (MIT); Profesor Emérito.
Agosto Rivera, José L.; Ph.D., Brandeis University, 2008; Catedrático Auxiliar.
Aliev, Fouad M.; Ph.D., Leningrad University, 1975; Catedrático.
Altschuler Stern, Daniel R; Ph.D., Brandeis University, 1974; Catedrático.
Arce Nazario, Rafael; Ph.D., Universidad de Puerto Rico-Mayagüez, 2007; Catedrático.
Arce Quintero, Rafael; Ph.D., University of Wisconsin-Madison, 1971; Profesor Emérito.
Bayman, Paul; Ph.D., University of California-Berkeley, 1987; Catedrático.
Bayro Checa, Marvin J.; Ph.D., Massachusetts Institute of Technology (MIT), 2010; Catedrático Auxiliar.
Bhuiyan, Lutful Bari; Ph.D., University of London, 1977; Catedrático.
Borrero Sierra, Michelle; Ph.D., University of North Carolina, 2001; Catedrática Asociada.
Brokaw, Nicholas V. L.; Ph.D., Universidad de Chicago, 1980; Profesor Emérito.
Burrowes Gómez, Patricia A.; Ph.D., Universidad de Kansas, 1997; Catedrática.
Carballeira Cabranes, Néstor M.; DR. RER. NAT., Universidad de Wurzburg, 1983; Catedrático.
Cardona Torres, Iván; Ph.D., Florida State University, 1987; Catedrático.
Chen, Zhongfang; D.Sc., Nankai University, 2000; Catedrático.
Colón Rivera, Jorge L.; Ph.D., Texas A&M University, 1989; Catedrático.
Colorado Laguna, Rafael; Ed.D., Universidad de Puerto Rico-Río Piedras, 2008; Catedrático Asociado.
Corrada Bravo, Carlos J.; Ph.D., University of Southern California, 2002; Catedrático.
Correa Matos, Nancy; Ph.D., University of Illinois, 2006; Catedrática Asociada.
Cuevas Viera, Elvira; Ph.D., Instituto Venezolano de Investigaciones Científicas, 1983; Catedrática.
Cunci Pérez, Lisandro; Ph.D., Universidad de Puerto Rico-Río Piedras, 2013; Catedrático Auxiliar.
Dávila Díaz, Kariluz; Ph.D., Universidad de Puerto Rico-Río Piedras, 2006; Catedrática Auxiliar.
Díaz Vázquez, Liz M.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2005; Catedrática.

Dvorsky, Elizabeth; Ph.D., Universidad de Puerto Rico-Río Piedras, 1996; Catedrática.
Echegaray, Francisco; Ph.D., University of California, 1988; Catedrático Asociado.
Emmamy Khansary, Mohamad-Reza; Ph.D., University of California-Berkeley, 1981; Catedrático.
Feng, Xianping Peter; Ph.D., La Trobe University, 2001; Catedrático.
Fernández Hernández, Nivia A.; Ed.D., Universidad de Puerto Rico-Río Piedras, 2000; Catedrática.
Figueroa Guerrero, Raúl F.; Ph.D., University of Iowa, 1988; Catedrático.
Flores Granados, David I.; Ph.D., Centro de Research Científica y de Educación Superior de Ensenada-México; 2015; Catedrático Auxiliar.
Fonseca Zamora, Luis F.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1985; Catedrático.
Gao, Qiong; Ph.D., Cornell University, 1987; Catedrático Asociado.
García Arrarás, José E.; Ph.D., Harvard University, 1981; Catedrático.
Ghezzi Grau, Alfredo; Ph.D., University of Texas-Austin, 2006; Catedrático Asociado.
Giray, Tugrul; Ph.D., University of Illinois, Urbana-Champaign, 1997; Catedrático Asociado.
Gong, Guihua; Ph.D., State University of New York (SUNY)-Stony Brook, 1990; Catedrático.
González Vargas, Carlos I.; Ph.D., Rutgers University, 1996; Catedrático Asociado.
Griebenow, Kai H.; D.Sc., University of Düsseldorf, 1992; Catedrático.
Guan, Puhua; Ph.D., Ohio State University, 1985; Catedrático.
Janwa, Heeralal; D.Sc., Syracuse University, 1986; Catedrático.
Joglar Jusino, Rafael; Ph.D., University of Kansas, 1986; Catedrático.
Katiyar, Ram Sharan; Ph.D., Indian Institute of Science, Bangalore (India), 1968; Catedrático.
Keyantuo, Valentín; Ph.D., Université de Franche-Comté, France, 1992; Catedrático.
Lasalde Dominicci, José A.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1988; Catedrático.
Liangqing, Li; Ph.D., University of Toronto, 1995; Catedrática.
Lluberes Contreras, Marie; Ph.D., Universidad de Puerto Rico-Mayagüez, 2000; Catedrática Auxiliar.
Louime, Clifford; Ph.D., Florida Agricultural and Mechanical University, 2005; Catedrático Asociado.
Maldonado Vlaar, Carmen S.; Ph.D., Universidad de Puerto Rico, 1994; Catedrática.
Martínez Collazo, Antonio; Ph.D., The American University, 1990; Catedrático.
Massey, Steven Edward; D.Sc., University of Kent, 2004; Catedrático.
Medina Rivera, Luis A.; Ph.D., Tulane University, 2008; Catedrático.
Mégret Laboye, Rémi; Ph.D., National Institute of Applied Sciences, 2003; Catedrático Asociado.
Meléndez Ackerman, Elvia J.; D.Sc., University of California, 1995; Catedrática.
Mir Franqui, Celia J.; Ed.D., University of Central Florida, 1993; Catedrática.
Montes González, Ingrid; Ph.D., Universidad de Puerto Rico-Río Piedras, 1985; Catedrática.
Morell Marrero, Gerardo; Ph.D., Universidad de Puerto Rico-Río Piedras, 1995; Catedrático.
Moreno Viqueira, Gabriel; Ph.D., New York State University, 1990; Catedrático Asociado.
Motta Cruz, Noel; Ph.D., Universidad de Puerto Rico-Río Piedras, 1994; Catedrático Asociado.
Nicolau López, Eduardo L.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2012; Catedrático.
Nieves Vázquez, José F.; Ph.D., University of Pennsylvania, 1980; Catedrático.
Nytch, Christopher; Ph.D., Universidad de Puerto Rico-Río Piedras; 2018; Catedrático Auxiliar.
Orozco Salcedo, Edusmildo; Ph.D., Universidad de Puerto Rico-Mayagüez, 2005; Catedrático Asociado.
Ortiz Ubarri, José R.; Ph.D., Universidad de Puerto Rico-Mayagüez, 2009; Catedrático.
Ortiz Zayas, Jorge R.; Ph.D., University of Colorado-Boulder, 1998; Catedrático Asociado.
Ortiz Zuazaga, Humberto G.; Ph.D., Universidad de Puerto Rico-Mayagüez, 2008; Catedrático.
Palai, Ratnakar; Ph.D., University of Strathclyde, 2004; Catedrático.
Pantoja, Carmen A.; D.Sc., University of Oklahoma, 1995; Catedrática.
Papa, Riccardo; Ph.D., Università di Parma, 2008; Catedrático.
Pennance, Philip; Ph.D., Universidad de Puerto Rico-Río Piedras, 1988; Catedrático.
Pérez Hernández, María E.; D.Sc., Universidad Central de Venezuela, 1994; Catedrática.
Pericchi Guerra, Luis R.; Ph.D., University of London, 1981; Catedrático.
Peterson Peguero, Esther A.; Ph.D., University of Michigan-Ann Arbor, 2009; Catedrática Asociada.
Pinto López, Elsa; Ph.D., Florida International University, 2008; Catedrática.

Piñero Cruz, Dalice M.; Ph.D., Universidad de Puerto Rico, 2009; Catedrática Asociada.
Punchin Fung, Jorge G.; Ph.D., Universidad de Delaware, 1978; Catedrático.
Qiong, Gao; Ph.D., Cornell University, 1987; Catedrático Asociado.
Quintero Rivera, Ana Helvia; Ph.D., Massachusetts Institute of Technology (MIT), 1980; Catedrática.
Ramírez Lugo, Juan S.; Ph.D., California Institute of Technology, 2010; Catedrático Asociado.
Ramírez Ordoñez, Rosaura; Ph.D., Universidad de Puerto Rico-Río Piedras, 1993; Catedrática Auxiliar.
Restrepo Bonilla, Carla E.; Ph.D., University of Florida, 1995; Catedrática.
Ríos Dávila, Rafael A.; Ph.D., University of Texas-Austin, 1975; Catedrático.
Rivera Ortiz, José M.; Ph.D., Massachusetts Institute of Technology (MIT), 2000; Catedrático.
Rivera Sánchez, Sasha; Ph.D., Universidad Autónoma de Barcelona, 2021; Catedrática Auxiliar.
Rodilla Luque, Fernando J.; Ph.D., Massachusetts Institute of Technology (MIT), 1984; Catedrático.
Rodríguez Berrios, Raúl; Ph.D., Universidad de Puerto Rico-Río Piedras, 2010; Catedrático Auxiliar.
Rodríguez Fernández, Imilce A.; Ph.D., University of California-Los Angeles, 2012; Catedrática Auxiliar.
Rodríguez Martínez, José A.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2009; Catedrático Asociado.
Rodríguez Pierluissi, Abimael; Ph.D., Johns Hopkins University, 1983; Catedrático.
Rubio Canabal, Ivelisse M.; Ph.D., Cornell University, 1998; Catedrática.
Sabat Guernica, Alberto; Ph.D., State University of New York-Albany, 1990; Catedrático.
Santiago Valentín, Eugenio; Ph.D., University of Washington, 1999; Catedrático.
Selsby, Ronald; Ph.D., Ohio State University, 1969; Catedrático.
Shan, Lin; Ph.D., Vanderbilt University, 2007; Catedrático Asociado.
Thomas, John Paul Richard; Ph.D., Louisiana State University, 1976; Profesor Emérito.
Tinoco, Arthur D.; Ph.D., Yale University, 2007; Catedrático.
Toranzos Soria, Gary Antonio; Ph.D., University of Arizona, 1985; Catedrático.
Toro Enríquez, Brenda; Ph.D., Kansas State University, 2005; Catedrática.
Torres Díaz, Carlos M.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2000; Catedrático Asociado.
Ubriaco, Marcelo R.; Ph.D., University of North Carolina, 1989; Catedrático.
Vargas Silva, Arnaldo J.; Ph.D., Indiana University, 2017; Catedrático Auxiliar.
Velev, Julian; Ph.D., University of Illinois, Urbana-Champaign, 2002; Catedrático.
Weiner, Brad; Ph.D., University of California-Davis, 1986; Catedrático.
Wu, Xianyong; PhD; Wuhan University, 2016; Catedrático Auxiliar.
Yu, Mei; Ph.D., Institute of Botany, Chinese Academy of Sciences, 1998; Catedrática.
Zimmerman Earp, Jess K.; D.Sc., University of Utah, 1989; Catedrático.
Zou, Xiaoming; D.Sc., Colorado State University, 1992; Catedrático.

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 major 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.

in

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

y proteins, and their application to biological problems. In addition, it will include mathematical concepts y 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 3170. 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

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. Prerequisites: 3420 (zoology), BIOL 3410 (botany), BIOL 3111 (ecology) or equivalents, 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.

of

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: FISI 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.

island.

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 SecurityCCOM 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.

for

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. L a boo r a3t 0 1 y2 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, 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: La Place 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 major 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 major 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:

Fundamentals of Astronomy: Observations with the Eye 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

The Solar System

Stellar Evolution

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 majors 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, logarıthmic 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. Estimate. 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-Arabic. 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, quarrels, 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.

of

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 major 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. Medium and total curvature. The fundamental surface theorem. Minimum and regulated surfaces. Conformal maps and isometries. Geodetic.

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. Co classes 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 border 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. Boole 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

y 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

y compliant 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.

the

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.

the

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.

of

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 o 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

a 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 potentimetric 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.

The

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.

COLLEGE OF SOCIAL SCIENCES

Webpage: https://sociales.uprrp.edu
Tel.: (787) 764 0000, ext. 87541, 87544
Email address: decanato.ciso@upr.edu
Address: 9 Ave. Universidad STE 901 San Juan PR 00925-2529

Administration

Dean: Dra. Milagros Méndez Castillo
Associate Dean: Dra. Laura Fantauzzi Marrero
Associate Dean for Student Affairs: Sr. Julio L. Calderón Vega
Associate Dean for Administrative Affairs: Sra. Nixzaliz Vega Gutiérrez
Department Chairs
Interim Director, Department of Psychology: Dra. Heidi J. Figueroa
Director, Graduate School of Rehabilitation Counseling: Dra. Lesley O. Irizarry Fonseca
Interm Director Department of Social Work: Dra. Luz M. Cordero Vega
Director Department of Sociology and Anthropology: Dr. Jaime M. Pérez Rivera
Director, Graduate School of Social Work Beatriz Lassalle: Dra. Lesley Irizarry Fonseca
Interim Director: Department of Economy: Dr. José E. Laborde Rivera
Interim Director, Department of Political Science: Dra. Mayra Vélez Serrano
Director, Graduate School of Public Administration Roberto Sánchez Vilella: Dra. Liz J. Ortiz Laureano
Area/program coordinators
Academic Coordinator, Department of Geography: Lic. José M. Longo
Academic Coordinator, Department of Social Sciences: Lic. José M. Longo
Academic Coordinator, Institute of Cooperativism: Dra. Elba Echevarría Díaz
Academic Coordinator, Institute of Labor Relations: Dra. Elba Echevarría Díaz
Coordinator, Academic Computing Center (CACCS): Dr. Yamil Ortiz
Director, Institute of Psychological Research (IPsi): Dr. David Pérez Jiménez
Director, Institute of Caribbean Studies (IEC): Dr. Don E. Walicek
Director, Center of Social Research: Dra. Libia M. González López
University Center for Psychological Services and Studies (CUSEP): Dra. Carmen C. Salas Serrano

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 major 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 majors 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:
    - Organize and properly manage personal and academic life
    - Improve study skills
    - Manage conflicts in relationships
    - Gain communication and relationship skills with others, including parents and family members

- Manage the process of physical and emotional independence
- Deal with situations that require reasonable accommodation in the course of your academic life
- 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

MAJORS

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.

What

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, the documentary and archival. In addition, they will be able to work in social and archaeological research inside and outside Puerto Rico.

GOALS

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.

Encourage openness and critical analysis of the diversity of theoretical and methodological traditions that characterize the discipline.

Integrate research theory and practice in the various branches, regions, and professional applications of anthropology.

Sponsor innovative field research from an interdisciplinary perspective y comparative as an integral part of the curriculum.

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 major 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 major 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 Sociology Program seeks to train students capable of excelling in sociological research and analysis. It promotes the study of social processes, contemplating the collectivity in its relationship with the subject and its practices. It stimulates the development of a critical sociology that reflects on the very foundations of the discipline and the debate on sociological formulation and knowledge. This baccalaureate provides basic training in fundamental concepts, theories and methodologies to understand and analyze society, its institutions and processes of formation and change, including its problems and social events. This baccalaureate is ideal for people interested in learning about social processes and institutions through quantitative and qualitative research techniques.

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 majors. The General Index for the major of Labor Relations is 2.70. For the Economics major the Index is 2.80 and for the Political Science, General Social Sciences, Psychology and Social Work majors 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:

Submit an application to the Admissions Office on or before February 15, for the first semester, or September 15 for the second semester.

Have passed a minimum of 30 credits with a General Index of no less than 3.00.

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.

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.

Submit evidence of the degrees or diplomas received.

Submit evidence of financial resources to study in Puerto Rico.

Applicants from private educational institutions must also submit evidence that the institution enjoys official recognition by the country's government.

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:

That there is room in the requested courses.

That the candidate files all the documentation on time.

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 major, with a minimum index of 2.00.

ACADEMIC PROGRAMS

Bachelor of Arts in Anthropology

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3
HUMA – Humanities I	3	HUMA – Humanities II	3
CIENCIA – Science	3	CIENCIA – Science	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
Literature I	3	Literature II	3
Social Sciences Course	3	ANTR 3046 – Human Evolution*	3
ANTR 3006 – Sociocultural Anthropology I	3	ANTR 3025 – Principles of Archaeology	3
SOCI 3245 – Principles of Sociology**	3	Anthropology Elective	3
MATE 3105 – Mathematical Appreciation	3	Social Sciences Course (CISO 3155)	3
Total	**15**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
SOCI 4186 – Computer Techniques in Sociological Research: Scope and Limitations	3	Anthropology Elective	3
Anthropology Elective	3	Anthropology Elective	3

Anthropology Elective	3	Free Elective	3
Social Sciences Course	3	Social Sciences Course	3
Free Elective	3	Social Sciences Course	3
Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
ANTR 4046 – Theory and Methodology in Anthropology	3	ANTR 4098 – Anthropology Seminar	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Art	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

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

Bachelor of Arts in Political Science

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3
HUMA – Humanities I	3	HUMA – Humanities II	3

CIENCIA – Science	3	CIENCIA – Science	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
Literature I	3	Literature II	3
CIPO 3025 – Political Systems in the United States	3	CIPO 3035 – The Puerto Rican Political System	3
CIPO 3156 – Classical and Medieval Political Thought	3	CIPO 3165 – Modern Political Theory: From the Italian Renaissance to the French Revolution	3
Social Sciences Elective	3	Social Sciences Elective	3
MATE 3105 – Mathematical Appreciation	3	Social Sciences Elective (CISO 3155)	3
Total	**15**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
CIPO 4215 – International Theory or CIPO 4275 – Contemporary Global Politics	3	CIPO 4307 – Techniques for Sociopolitical Research	3
CIPO 4306 – Theory of Sociopolitical Research	3	Political Science Elective	3
Social Sciences Elective	3	Political Science Elective	3
Social Sciences Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
Art	3	Political Science Elective	3
Political Science Elective	3	Political Science Elective	3
Political Science Elective	3	Political Science Elective	3

Political Science Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Total Credits Required: 120 Credits

Bachelor of Arts in General Social Sciences

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3
HUMA – Humanities I	3	HUMA – Humanities II	3
Science	3	Science	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
Literature I	3	Literature II	3
Core Social Sciences Course	3	Core Social Sciences Course	3
Core Social Sciences Course	3	Core Social Sciences Course	3
CISO 3065 – Indigenous and Colonial Ethnohistory of Puerto Rico	3	CISO 3057 – Societies and Cultures in Contemporary Latin America	3
MATE 3105 – Mathematical Appreciation	3	CISO 3155 – Foundations of Statistical Reasoning	3
Total	**15**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
CISO 3086 – Society and Culture in Puerto Rico	3	Independent Study	3
CISO 3186 – Societies and Cultures in the Contemporary	3	CISO 3011 – Social Problems in Puerto Rico	3

Caribbean			
Core Social Sciences Course	3	CISO 3157 – Language, Culture, and Society in Puerto Rico	3
Core Social Sciences Course	3	Area of Emphasis Course*	3
Free Elective	3	CISO 4007 – Bibliographic Research and Management of Documentary Sources in the Social Sciences	3
Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
Area of Emphasis Course*	3	Area of Emphasis Course*	3
Area of Emphasis Course*	3	Area of Emphasis Course*	3
Free Elective	3	Free Elective	3
Free Elective	3	Art	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Total Credits Required: 120 Credits

Emphasis Area in Puerto Rican Studies

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA 3101 – Basic Spanish I	3	ESPA 3102 – Basic Spanish II	3
INGL 3101 – Basic English I	3	INGL 3102 – Basic English II	3
HUMA 3101 – Introduction to Western Culture I	3	HUMA 3102 – Introduction to Western Culture II	3
CIFI 3001 – Introduction to Physical Sciences I	3	CIBI 3035 – Ecosystems and Biodiversity	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
ESPA 3211 – Introduction to Spanish Literature I	3	ESPA 3212 – Introduction to Spanish Literature II	3
Social Sciences Core Course	3	Social Sciences Core Course	3
Social Sciences Core Course	3	Social Sciences Core Course	3
CISO 3065 – Indigenous and Colonial Ethnohistory of Puerto Rico	3	CISO 3057 – Societies and Cultures in Contemporary Latin America	3
MATE 3105 – Mathematical Appreciation	3	CISO 3155 – Foundations of Statistical Reasoning	3
Total	**15**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
CISO 3086 – Society and Culture in Puerto Rico	3	Independent Study	3
CISO 3186 – Societies and Cultures in the Contemporary Caribbean	3	Puerto Rican Studies Emphasis Course	3
Social Sciences Core Course	3	Puerto Rican Studies Emphasis Course	3
Social Sciences Core Course	3	Puerto Rican Studies Emphasis Course	3
CISO 4007 – Bibliographic Research and the Management of Documentary Sources in the Social Sciences	3	Free Elective	3
Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
Puerto Rican Studies Emphasis Course	3	Puerto Rican Studies Emphasis Course	3
Puerto Rican Studies Emphasis Course	3	Puerto Rican Studies Emphasis Course	3

Free Elective	3	Free Elective	3
Free Elective	3	Art	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Total Credits Required: 120 Credits

Bachelor of Arts in Economics

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3
HUMA – Humanities I	3	HUMA – Humanities II	3
Science	3	Science	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
Literature I	3	Literature II	3
ECON 3027 – Analytical Techniques for Economists	3	ECON 3022 – Principles of Economics II	3
ECON 3021 – Principles of Economics I	3	ECON 4055 – History of Economic Thought	3
Social Sciences Elective	3	Social Sciences Elective	3
Social Sciences Elective	3	Social Sciences Elective	3
Total	**15**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
ECON 3031 – Statistical Methods I	3	ECON 3032 – Statistical Methods II	3
ECON 4121 – Mathematical Foundations of Economics I	3	ECON 4381 – Intermediate Microeconomic Analysis	3
Economics Elective I	3	Economics Elective II	3

Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
ECON 4382 – Intermediate Macroeconomic Analysis	3	ECON 4166 – The Puerto Rican Economy	3
Economics Elective III	3	ECON 4416 – Seminar in Economic Research Methods	3
Economics Elective IV	3	Economics Elective V	3
Free Elective	3	Arts	3
Free Elective	3	Economics Elective VI	3
Total	**15**	**Total**	**15**

Total Credits Required: 120 Credits

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		

Bachelor of Arts in Geography

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3

HUMA – Humanities I	3	HUMA – Humanities II	3
CIBI or CIFI – Biological or Physical Sciences	3	CIBI or CIFI – Biological or Physical Sciences	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
Literature I	3	Literature II	3
GEOG 3100 – Elements of Geography	3	GEOG 3250 – Introduction to Quantitative Methods in Geography	3
Social Sciences Course	3	GEOG 3165 – Geography of Puerto Rico	3
Social Sciences Course	3	GEOG 3285 – Elements of Cartography	3
MATE 3105 – Mathematical Appreciation	3	Social Sciences Course	3
Total	**15**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
GEOG 4500 – History and Philosophy of Geography	3	Geography Elective	3
GEOG 3475 – Introduction to Geographic Information Systems	3	Geography Elective	3
Geography Elective	3	Geography Elective	3
Social Sciences Course	3	Free Elective	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
GEOG 4550 – Geographic Research Methods	3	Geography Elective	3
Geography Elective	3	Geography Elective	3
Geography Elective	3	Geography Elective	3
Free Elective	3	Art	3

Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Total Credits Required: 120 Credits

Bachelor of Arts in Psychology

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3
HUMA – Humanities I	3	HUMA – Humanities II	3
CIBI – Biological Sciences	3	CIBI – Biological Sciences	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
Literature I	3	Literature II	3
MATE 3105 – Mathematical Appreciation	3	CISO 3155 – Foundations of Statistical Reasoning	3
PSIC 3003 – Introduction to General Psychology	4	PSIC 3006 – Social Psychology	3
CISO 3086 – Society and Culture in Puerto Rico	3	PSIC 3046 – History of Psychology	3
Social Sciences Course	3	Social Sciences Course	3
Total	**16**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
PSIC 3025 – Human Development	3	Psychology Elective	3
PSIC 4001 – Research Methodology in Psychology I	3	PSIC 4002 – Research Methodology in Psychology II	3
Free Elective	3	Free Elective	3
Social Sciences Course	3	Social Sciences Course	3
Psychology Elective	3	Psychology Elective	3

Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
Psychology Elective	3	Psychology Elective	3
Psychology Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Art	3
Social Sciences Course	3	Social Sciences Course	3
Total	**15**	**Total**	**15**

Total Credits Required: 120 Credits

Bachelor of Arts in Labor Relations

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
HUMA – Humanities I	3	HUMA – Humanities II	3
INGL – English I	3	INGL – English II	3
ESGE 3008 – Logical-Mathematical Reasoning and Quantitative Analysis	3	Art	3
		Elective	3
Total	**15**	**Total**	**18**

Second Year

First Semester	Credits	Second Semester	Credits
RELA 3025 – History of the Labor Movement	3	RELA 3045 – Labor Relations Law	3
CISO 3155 – Foundations of Statistical Reasoning	3	RELA 3085 – Introduction to Labor Research and Statistical Methods	3
Introductory Social Sciences Course	3	ECON 3005 – Introduction to Economics	3
RELA 3005 – Work and Society: A Comprehensive Overview	3	RELA 3115 – Introduction to Human Resources Analysis, Policy, and Programs	3

RELA 3015 – Human Behavior in the Workplace	3	Elective	3
RELA 3031 – Business Administration I	3		
Total	**18**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
RELA 3095 – Structure, Organization, Management, and Governance of Labor Unions	3	RELA 3065 – Collective Bargaining	3
RELA 3075 – Labor Economics	3	Literature	3
Literature	3	Labor Relations Elective	3
Natural Sciences	3	Labor Relations Elective	3
Elective	3	Natural Sciences	3
Introductory Social Sciences Course	3	Elective	3
Total	**18**	**Total**	**18**

Fourth Year

First Semester	Credits	Second Semester	Credits
RELA 4035 – Mediation, Conciliation, and Arbitration	3	RELA 4045 – Practicum in Labor Relations	6
Labor Relations Elective	3		
Elective	3		
Elective	3		
Total	**12**	**Total**	**6**

Total Credits Required: 120 Credits

Guided Electives

Students must select guided electives from the following courses:

- RELA 3035
- RELA 3055
- RELA 3105
- RELA 3135
- RELA 3145
- RELA 3150
- RELA 3155
- RELA 3165

- RELA 4006
- RELA 4015
- RELA 4016
- RELA 4025
- RELA 4055
- RELA 4065

Total Credits Required for the Degree: 120 Credits.

Bachelor of Arts in Sociology

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3
HUMA – Humanities I	3	HUMA – Humanities II	3
CIBI – Biological Sciences	3	CIBI – Biological Sciences	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
Literature I	3	Literature II	3
SOCI 3245 – Principles of Sociology	3	CISO 3155 – Foundations of Statistical Reasoning	3
ANTR 3046 – Human Evolution	3	SOCI 4186 – Computer Techniques in Sociological Research: Scope and Limitations	3
Social Sciences Course	3	SOCI 4005 – Sociological Theory	3
MATE 3105 – Mathematical Appreciation	3	Social Sciences Course	3
Total	**15**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
SOCI 3267 – Sociological Research Methods	3	SOCI 4187 – Sociological Research Methodology	3
Sociology Elective	3	Sociology Elective	3

Sociology Elective	3	Sociology Elective	3
Social Sciences Course	3	Social Sciences Course	3
Social Sciences Course	3	Free Elective	3
Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
Art	3	Sociology Elective	3
Sociology Elective	3	Sociology Elective	3
Sociology Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Total Credits Required: 120 Credits

Guided Electives

Students must select Sociology electives from among the following courses:

- SOCI 3005
- SOCI 3045
- SOCI 3055
- SOCI 3065
- SOCI 3076
- SOCI 3077
- SOCI 3085
- SOCI 3095
- SOCI 3105
- SOCI 3115
- SOCI 3135
- SOCI 3165
- SOCI 3175
- SOCI 3185
- SOCI 3195
- SOCI 3235
- SOCI 3275
- SOCI 3295
- SOCI 3305
- SOCI 3315
- SOCI 3325
- SOCI 3335
- SOCI 3355
- SOCI 3385
- SOCI 3395
- SOCI 3405
- SOCI 4008
- SOCI 4025
- SOCI 4026
- SOCI 4035
- SOCI 4045
- SOCI 4105
- SOCI 4115
- SOCI 4155
- SOCI 4170
- SOCI 4175
- SOCI 4190
- SOCI 4205
- SOCI 4215
- SOCI 4225
- SOCI 4227
- SOCI 5009

Total Credits Required for the Degree: 120 Credits.

Bachelor of Arts in Social Work

First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3
HUMA – Humanities I	3	HUMA – Humanities II	3
CIBI – Biological Sciences	3	CIBI – Biological Sciences	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
TSOC 3005* – Systems of Well-Being	3	TSOC 4011*> – Generalist Approaches and Interventions with Individuals in Family Contexts I	3
TSOC 3015* – Social Work as a Profession	3	TSOC 4030* – Oppression, Inequality, and Social Work	3
TSOC 4003* – Human Behavior and the Social Environment I	3	SOCI 4005* – Sociological Theory	3
TSOC 4004* – Human Behavior and the Social Environment II	3	MATE 3105 – Mathematical Appreciation	3
SOCI 3245 – Principles of Sociology	3	CIPO 3011 – Principles and Issues of Political Science	3
Free Elective	3	Free Elective	3
Total	**18**	**Total**	**18**

Third Year

First Semester	Credits	Second Semester	Credits
TSOC 4012*> – Generalist Approaches and Interventions with Individuals in Family Contexts II	3	TSOC 4025*> – Professional Practice with Groups and Communities	3
CISO 3155* – Foundations of Statistical	3	ECON 3005 – Introduction to Economics	3

Reasoning			
PSIC 3003 – Introduction to General Psychology	4	Literature	3
Literature	3	TSOC 3131* – Scientific Research in Social Work I	3
Social Work Elective	3	Social Work Elective	3
Free Elective	3	Free Elective	3
Total	**19**	**Total**	**18**

Fourth Year

First Semester	Credits	Second Semester	Credits
TSOC 4027*> – Community Organization and Social Policy	3	TSOC 4065* – Supervised Practice	6
CISO 3086 – Society and Culture in Puerto Rico or HIST 3241 – History of Puerto Rico I or HIST 3242 – History of Puerto Rico II	3		
CISO 3011 – Social Problems in Puerto Rico or SOCI 3335 – Social Problems or SOCI 3275 – Sociology of Behavioral Variation	3		
TSOC 3132* – Scientific Research in Social Work II	3		
Art	3		
Free Elective	3		
Total	**18**	**Total**	**6**

Total Credits Required: 127 Credits

Notes

- **All major courses must be completed prior to enrollment in TSOC 4065 – Supervised Practice.**
- ***** Course has prerequisites.
- > A minimum grade of **B** is required.

Guided Electives

Students may select guided electives from the following courses:

- TSOC 4026
- TSOC 4028
- TSOC 4029
- TSOC 4036
- TSOC 4047
- TSOC 4095

- TSOC 4195
- TSOC 4205
- TSOC 4206
- TSOC 4215

Total Credits Required for the Degree: 127 Credits.

Bachelor of Arts in Cooperativism
First Year

First Semester	Credits	Second Semester	Credits
CISO 3121 – Introduction to Social Sciences I	3	CISO 3122 – Introduction to Social Sciences II	3
ESPA – Spanish I	3	ESPA – Spanish II	3
INGL – English I	3	INGL – English II	3
HUMA – Humanities I	3	HUMA – Humanities II	3
Science	3	Science	3
Total	**15**	**Total**	**15**

Second Year

First Semester	Credits	Second Semester	Credits
COOP 3005 – History and Philosophy of Cooperativism	3	COOP 3025 – Organization and Practice of Cooperativism	3
COOP 3006 – Group Dynamics	3	COOP 3035 – Cooperative Education	3
Literature I	3	Literature II	3
Social Sciences Course	3	Social Sciences Course	3
MATE 3105 – Mathematical Appreciation	3	Free Elective	3
Total	**15**	**Total**	**15**

Third Year

First Semester	Credits	Second Semester	Credits
COOP 3135 – Cooperative Legislation	3	COOP 3255 – Community Organization and Leadership	3
COOP 3145 – Management of Cooperative Enterprises	3	Cooperativism Elective	3
Social Sciences Course	3	Social Sciences Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3

Total	**15**	**Total**	**15**

Fourth Year

First Semester	Credits	Second Semester	Credits
Cooperativism Elective	3	Cooperativism Elective	3
Cooperativism Elective	3	Art	3
Social Sciences Elective	3	Social Sciences Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Total	**15**	**Total**	**15**

Total Credits Required: 120 Credits

Guided Electives

Students must select guided electives from the following courses:

- COOP 3035
- COOP 3055
- COOP 3105
- COOP 3135
- COOP 3145
- COOP 3150
- COOP 3155
- COOP 3165
- COOP 4006
- COOP 4015
- COOP 4016
- COOP 4025
- COOP 4055
- COOP 4065

Total Credits Required for the Degree: 120 Credits.

TEACHING FACULTY AND ADMINISTRATIVE STAFF

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.; LLM, 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 Catedratics.
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 Moiśés, 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 Humbodt 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.
herself

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 Major.
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 major.
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 majors to learn about public policy and propaganda.
His

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.
year

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. From Spinoza, John Locke, David Hume, J.J. Rosseau 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 dialectal 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

Tcrherdeiets. 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.
the

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 major 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 revolution
y 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 y 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
o 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.
the

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 o 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.
4C5IS45O- 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, Mauritus, 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 o 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.
the

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 major 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
yremote 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.

-PSICCo3g0n9it8ive-
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.
the

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 ysimple 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 o 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.
4P0S8IC0 - 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, majors, 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 major.
Hands-on experiences in the field of industrial relations will be offered to fourth-year students of the Industrial Relations major, 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.
Ccorintitceaml preofrleacrytiosnocoientyc.riEmminpahliatys,isbootnh dhiissctouicrsaellsy oandcriinmteh,estate 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.
McoanitneSmopcoiaral raynsdoEciceotyn.oDmisiccuDsimsioensoiof nthseomf tohset CimlapsosrtSanyst ttehmeories of social isntratthifeication. 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 major 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 major 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.

COLLEGE OF COMMUNICATION AND INFORMATION

WEB PAGE ADDRESS: HTTPS://FACI.UPRRP.EDU/
Tel.: (787) 764 0000, ext. 85315, 85301, 85317
Email address: asuntosestudiantilesfaci@upr.edu
Address: 10 Ave. Universidad Ste. 1001 San Juan, P.R., 00925-2530

Administration
Interim Dean/a Interino/a: Dra. Julia Y. Vélez González
Associate Dean: Profa. Yomarie García de Jesús
Associate Dean of Student Affairs: Krizia L. Rojas Ortiz
Associate Dean of Administrative Affairs: Sra. Nixzaliz Vega Gutiérrez

Department **Chairs**
Area/Program Coordinators

Graduate Program in Information Sciences – Academic Coordinator: Dr. Noraida Domínguez Flores

Graduate Program in Communication – Academic Coordinator: Dr. Rubén Ramírez Sánchez

Audiovisual Communication Program – Coordinator: Prof. Carlos García Arce

Journalism and Information Program – Coordinator: Dr. Israel Rodríguez Sánchez

Public Relations and Advertising Program – Coordinator: Dr. Iván de la Cruz Cuebas

Center for Research in Information and Communication (CIICom) Coordinator: Dr. Carlos Suárez Balseiro

User Technical Services I – Coordinator: Mr. Miguel Méndez Rodríguez

History

The Faculty of Communication and Information (FaCI) was established in 2021 through the administrative merger of the School of Communication (EC) and the Graduate School of Information Sciences and Technologies (EGCTI). This integration strengthened two closely related disciplines: Communication and Information Sciences and Technologies.

Both fields share a common research dimension, focusing on phenomena related to the generation, management, and transmission of information through various technologies—from basic language to the web. Today, in the context of digital convergence, information flows across cultural, practical, and power-related dimensions, which are extensively studied within these disciplines.

It is worth noting that at the time of the merger, EGCTI had already been established for 52 years (since 1969), while EC had been in existence for 49 years (since 1972). EC also holds the distinction of offering the first graduate program in communication in Puerto Rico.

Recognitions and Accreditations

FaCI is accredited by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC), the agency responsible for evaluating professional journalism and communication programs in universities. Additionally, the graduate program in Information Sciences is the only one in Puerto Rico accredited by the American Library Association (ALA).

Degrees Offered

FaCI offers the following undergraduate and graduate degrees:

Bachelor of Arts in Communication, with majors in:

- Audiovisual Communication
- Public Relations and Advertising
- Information and Journalism

Graduate Programs:

- Master of Arts, with specializations in Journalism and Theory & Research
- Post-Baccalaureate Certificate in Records and Archives Administration
- Online Master of Science in Information Sciences
- Post-Master's Certificate in Academic, Public, and Special Library Administration

Student Services

- Advising Services
- Academic Advising
  Faculty and staff provide support in course selection, degree planning, and academic progress.
- Center for Research in Information and Communication & Media Lab
- Supervised Internships at Radio Universidad de Puerto Rico (WRTU)
- Academic Support Program
  A mentoring initiative designed to assist students in achieving academic success through personalized support.

As part of the academic experience, FaCI provides undergraduate students with classrooms equipped with cutting-edge technology and industry-standard software used in communication. Students also have access to editing suites, writing labs, and supervised practice opportunities in areas such as journalism, film, radio, television, public relations, and advertising. These supervised internships take place at WRTU (Radio Universidad de Puerto Rico), as well as in other public agencies and private companies.

Admission Requirements

Applicants must meet the required Admission Index (IGS) for the major they are applying to. Admission is granted in descending order until the established quota for each major is filled.

Readmissions

FaCI accepts readmission students during the first semester of each academic year. Categories include:

- Readmission of FaCI students who have not completed their Bachelor's degree: a minimum GPA of 2.50 is required.
- Students from other faculties who have completed their Bachelor's degree: a minimum GPA of 3.30 is required.

Reclassification

A minimum GPA of 3.00 is required. FaCI accepts students for both semesters of the academic year. Students interested in reclassification must not have more than 75 approved credits at their current institution at the time of application.

Transfer

If the student has fewer than 24 approved credits at the University of Puerto Rico:

- Must show satisfactory academic progress according to the Retention Tables.
- Must have an Admission Index (IGS) equal to or higher than the minimum established for the year in which the student was admitted.

If the student has more than 24 approved credits at the University of Puerto Rico:

- Must show satisfactory academic progress according to the Retention Tables.
- Must meet other criteria established for the program to which they are applying.
- Must have a minimum GPA of 3.00.

Transfer

For students currently enrolled in universities or higher education institutions outside the University of Puerto Rico (UPR) System:

- Must have a minimum of 30 approved credits at the time of application.
- Must meet the minimum required GPA of 3.00

Graduation Requirements

Students must complete 120 credits. In addition, they must:

- Have a minimum overall GPA of 2.00.
- Fulfill all requirements of their Communication major, according to the approved major sequence.
- Meet all general graduation requirements established by the Río Piedras Campus.

ACADEMIC PROGRAMS

Program Description

Audiovisual Communication

This bachelor's degree provides the tools and knowledge to develop, direct, produce, or critique various forms of audiovisual communication: film, photography, multimedia, and more.

Information and Journalism

Public Relations and Advertising

The Public Relations and Advertising program provides:

- Strategies for the creation and development of integrated communication.
- Research, design, planning, and implementation of integrated communication.

Students learn to distinguish, analyze, and deepen their understanding of public relations and advertising, aimed at producing and reproducing integrated communication strategies.

Curricular Sequences

GENERAL PROGRAM: AUDIOVISUAL COMMUNICATION

First year

First semester	Crs.	Second semester	Crs.

CISO 3121 (General Education)	3	CISO 3122 - (General Education)	**3**
ESPA (General Education, first-year Spanish)	3	ESPA (General Education, first-year Spanish)	**3**
HUMA (General Education, first-year Humanities)	3	HUMA (General Education, first-year Humanities)	**3**
INGL (General Education, first-year English)	3	INGL (General Education, first-year English)	**3**
COPU 4355 - Communication Theory (core course) o COPU 4017 – Introduction to Media (core)	3	COPU 4137 – Fundamentals of Writing for Media	**3**
Total	**15**	**Total**	**15**

Second year

First semester	**Crs.**	**Second semestrer**	**Crs.**
CIBI o CIFI (General Education)	3	CIBI o CIFI (General Education)	**3**
INGL (General Education, second-year English) **	3	INGL (General Education, second-year English) **	**3**
HIST (History of Puerto Rico)	3	ARTE (General education)	**3**
COMA 4011 – Basic Photography (major)	3	ESIN 4077 – Introduction to Scientific Research in Communication	**3**
COMA 4315 – Scripts (major)	3	ESGE 3008 – Mathematical Logical Reasoning and Quantitative Analysis	**3**
Total	**15**	**Total**	**15**

Third year

First semester	**Crs.**	**Second semester**	**Crs.**
COMA 4317 – Digital Graphic Designs (major)	3	ESIN 4008 – Theories of Meaning and Culture	**3**
COMA 4341 – Movie Production I (major), COMA 4351 – TV Production I (major) or COMA 4361 - Radio Production I (major)	3	COMA 4342 - Movie Production II (major), COMA 4352 - TV Production II (major) or COMA 4362 - Radio Production II (major)	**3**
COPU 4365 – Media Law and Information Ethics (core course)	3	Elective in Liberal Arts	**3**
LITE - (General Education)	3	LITE - (General Education)	**3**
Free elective***	3	Free elective	**3**
Total	**15**	**Total**	**15**

Fourth year

First semester	**Crs.**	**Second semester**	**Crs.**
COMA 4810 – Radio Seminar (major), COMA 4815 - Movie Seminar (major) or COPU 4817 – TV Seminar (major)	3	COPU 4045 – Advanced Seminar in Communication****	**3**
Free electives	3	Electives in Liberal Arts	**3**
Electives in Liberal Arts	3	Electives in Liberal Arts	**3**
Electives in Liberal Arts	3	Electives in Liberal Arts	**3**
Electives in Liberal Arts	3	Electives in Liberal Arts	**3**
Total	**15**	**Total**	**15**

Total credits	120

Implementation of the Curricular Revision

For students enrolled in 15 credits per semester, this sequence may vary if they choose to take more—or fewer—credits per semester.

** According to the level assigned by the placement test of the Department of English in the Faculty of Humanities.

*** According to the curricular revision, there will be a minimum of 9 free elective credits. For programs that, due to professional accreditation, require directed electives, this applies to the School of Communication.

**** This course must be taken in your final semester.

GENERAL PROGRAM: INFORMATION AND JOURNALISM

First year

First semester	Crs.	Second semester	Crs.
CISO 3121 (General Education)	3	CISO 3122 - (General Education)	**3**
ESPA (General Spanish, first-year Spanish)	3	ESPA (General Spanish, first-year Spanish)	**3**
HUMA (General Education, first-year Humanities)	3	HUMA (General Education, first-year Humanities)	**3**
INGL (General Education, first-year English)	3	INGL (General Education, first-year English)	**3**
COPU 4355 – Communication Theory (core course) or COPU 4017 – Introduction to Media (core courses)	3	COPU 4137 – Fundamentals of Writing for Media	**3**
Total	**15**	**Total**	**15**

Second year

First semester	Crs.	Second semester	Crs.
CIBI o CIFI (General Education)	3	CIBI o CIFI (General Education)	**3**
INGL (General Education, second-year English)**	3	INGL (General Education, second-year English)**	**3**
Elective in Liberal Arts	3	ESIN 4077 – Introduction to Scientific Research in Communication	**3**
INFP 4016 – Introduction to Journalism (major)	3	INFP 4148 - Basic Writing for Convergent Media (major)	**3**
ESGE 3008 – Mathematical Reasoning and Quantitative Analysis	3	Free elective***	**3**
Total	**15**	**Total**	**15**

Third year

First semester	Crs.	Second semester	Crs.
COPU 4365 – Media Law and Information Ethics (core course)	3	ESIN 4008 – Theories of Meaning and Culture	**3**
INFP 4205 – Communication Seminar (major) or INFP 4809 – Journalism Seminar (major)	3	INFP 4059 – Journalism for Radio and TV (major)	**3**
INFP 4001 – Journalism Writing I (major)	3	Free Elective	**3**

HIST (History of Puerto Rico)	3	Elective in Liberal Arts	**3**
Free Elective	3	ART	**3**
Total	**15**	**Total**	**15**

Fourth year

First semester	**Crs.**	**Second semester**	**Crs.**
INFP 4036 – Design and Techniques of Multimedia Journalism (major)	3	COPU 4045 – Advanced Seminar in Communication (core course)****	**3**
INFP 4002 – Journalism Writing II (major)	3	Electives in Liberal Arts	**3**
LITE (General Education)	3	LITE (General Education)	**3**
Elective in Liberal Arts	3	Elective in Liberal Arts	**3**
Elective in Liberal Arts	3	Elective in Liberal Arts	**3**
Total	**15**	**Total**	**15**

Total credits	120

*This sequence is based on an enrollment of 15 credits per semester. It may vary if the student chooses to take more or fewer courses each term. However, students must ensure they complete foundational and core courses before enrolling in more advanced courses.

** The student will enroll in the English course according to the level assigned by the placement test administered by the Department of English in the Faculty of Humanities.

*** The UPR Curricular Revision stipulates that programs requiring directed electives due to professional accreditation must include 9 free elective credits. This applies to the School of Communication.

**** This course must be taken during the student's final semester.

GENERAL PROGRAM: PUBLIC RELATIONS AND ADVERTISING

First year

First semester	**Crs.**	**Second semester**	**Crs.**
CISO 3121 (General Education)	3	CISO 3122 - (General Education)	**3**
ESPA (General Education, first-year Spanish)	3	ESPA (General Education, first-year Spanish)	**3**
HUMA (General Education, first-year Humanities)	3	HUMA (General Education, first-year Humanities)	**3**
INGL (General Education, first-year English)	3	INGL (General Education, first-year English)	**3**
COPU 4355 – Communication Theories (core course) or COPU 4017 – Introduction to the Media (core course)	3	COPU 4137 – Fundamentals of Writing for Media Communication	**3**
Total	**15**	**Total**	**15**

Second year

First semester	**Crs.**	**Second semester**	**Crs.**
CIBI o CIFI (General Education)	3	CIBI o CIFI (General Education)	**3**
INGL (General Education second-year English)**	3	(General Education second-year English)**	**3**
	3	REPU 4147 - Writing for Public Relations (major) or REPU 4025 - Writing for Advertising (major)	**3**

First semester	Crs.	Second semester	Crs.
ESIN 4077 - Introduction to Scientific Research in Communication (core course)	3	REPU 4155 - Media Planning (major)	**3**
ESGE 3008 - Mathematical Reasoning and Quantitative Analysis	3	Free Elective***	**3**
Total	**15**	**Total**	**15**

Third year

First semester	Crs.	Second semester	Crs.
COPU 4365 - Media Law and Information Ethics (core course)	3	ART(General Education)	**3**
REPU 4076 - Conceptualization of Advertisements for Audio, Video, Print and New Technologies (major)	3	ESIN 4008 - Theories of Meaning and Culture	**3**
HIST (History of Puerto Rico)	3	REPU 4165 - Public Relation Campaigns (major), REPU 4018, 4147 or 4025 y ESIN 4077	**3**
Free Elective	3	Free Elective	**3**
Electives in Liberal Arts	3	Electives in Liberal Arts	**3**
Total	**15**	**Total**	**15**

Fourth year

First semester	Crs.	Second semester	Crs.
Electives in Liberal Arts	3	COPU 4045 - Advanced Seminar on Communication (core course)****	**3**
Electives in Liberal Arts	3	Electives in Liberal Arts	**3**
Electives in Liberal Arts	3	Electives in Liberal Arts	**3**
REPU 4166 - Advertising Campaign (major)	3	Electives in Liberal Arts	**3**
LITE (General education)	3	LITE (General education)	**3**
Total	**15**	**Total**	**15**

Total credits	120

* Implementation of the Curriculum Revision. For students enrolled in 15 credits per semester; this sequence may vary if they choose to take more—or fewer—credits per term.

** According to the level assigned by the English Placement Test administered by the Department of English in the College of Humanities.

*** In accordance with the Curriculum Revision, there will be a minimum of 9 free elective credits for programs that, due to professional accreditation requirements, include directed electives. This applies to the School of Communication.

****This course must be taken during the student's final semester.

TEACHING FACULTY AND ADMINISTRATIVE STAFF

Faculty Directory

- Albert Trinidad, Ramaris; Ph.D., Universidad Complutense de Madrid, 2015; Catedrática Auxiliar.

- Burgos Ostolaza, Esther María; M.A., Universidad de Puerto Rico-Río Piedras, 1983; Instructora.
- De la Cruz Cuebas, Iván; Ph.D., Universität Oberta de Catalunya, 2013; Catedrático Asociado.
- De Souza, Claudia D.; Ph.D., Universidad Carlos III de Madrid, 2018; Catedrática Auxiliar.
- Díaz Rodríguez, Héctor; M.A., Universidad Interamericana de Puerto Rico, 1977; Catedrático Asociado.
- Domínguez Flores, Noraida; Ph.D., Nova Southeastern University, 2010; Catedrática Asociada.
- Flores Caraballo, Eliut; Ph.D., University of Texas-Austin, 1991; Catedrático.
- García Álvarez, Ana María; Ph.D., Universidad de Puerto Rico-Río Piedras, 2012; Catedrática Asociada.
- García Arce, Carlos; M.A., Universidad de Sevilla (España), 2013; Instructor.
- García de Jesús, Yomarie; M.A., Universidad de Puerto Rico-Río Piedras, 2004; Instructora.
- González Díaz, Jorge; Ph.D., Arizona State University, 2015; Catedrático Auxiliar.
- Gracia Machuca, Rafael G.; Ph.D., Universidad de la Laguna (España), 2000; Catedrático Asociado.
- Lugo Ortiz, María de Lourdes; Ph.D., University of Wisconsin-Madison, 1994; Catedrática.
- Morales Alequín, Beatriz; Ph.D., Universidad de Puerto Rico-Río Piedras, 1982; Catedrática.
- O'Neill Becerra, María de Mater; DDP, Northumbia University, 2014; Catedrática Auxiliar.
- Ramírez Sánchez, Rubén; Ph.D., Universidad de Nuevo México-Albuquerque, 2007; Catedrático Asociado.
- Reyes Velázquez, Wanda; Ph.D., Pennsylvania State University, 2005; Catedrática Auxiliar.
- Rivas Vélez, Alfredo E.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2012; Catedrático Auxiliar.
- Rivera González, José A.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2003; Catedrático.
- Roche Morales, Mario Edgardo; Ph.D., Universidad Complutense de Madrid, 2003; Catedrático.
- Rodríguez Sánchez, Israel; Ph.D., Universidad Complutense de Madrid, 2016; Catedrático Auxiliar.
- Rodríguez Soto, Adeliza; Ph.D., Universidad de la Laguna (España), 1996; Catedrática.
- Romero Díaz, Angélica;
- Sánchez Lugo, José A.; Ed.D., Pennsylvania State University, 1998; Catedrático.
- Santiago Pintor, Jorge; Ph.D., Universidad de Puerto Rico-Río Piedras, 2005; Catedrático.
- Santiago Torres, Amary; M.A., Universidad de Puerto Rico-Río Piedras, 2008; Instructora.
- Seijo Maldonado, Haydeé J.; Ph.D., University of Illinois-Urbana-Champaign, 1998; Catedrática.
- Sepúlveda Rodríguez, Héctor; Ed.D., Universidad de Puerto Rico-Río Piedras, 1996;

Catedrático.

- Soto Ramírez, Nora; M.A., Universidad de Puerto Rico-Río Piedras, 1986; Catedrática Asociada.
- Suárez Balseiro, Carlos A.; Ph.D., Universidad Carlos III de Madrid, 2004; Catedrático.
- Torres Pagán, Mariliana; Ph.D., Centro de Estudios Avanzaos de Puerto Rico y el Caribe, 2013; Catedrática Auxiliar.
- Torres Rodríguez, Jimmy; Ph.D., Pennsylvania State University, 1990; Catedrático.
- Vélez Natal, Betzaida; Ph.D., Columbia University, 1999; Catedrática.

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 major, 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.

of

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 ycolumns 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.

COLLEGE OF EDUCATION

WEB page: http://educacion.uprrp.edu/
Tel.: 787-764-0000, ext. 89002
Email Address:
Dirección: PO Box 23304 San Juan, PR 00931-3304

Administration
Dean: Dra. Grace M. Carro Nieves
Associate Dean of Academic Affairs: Dra. Wilda Rosado Olivieri
Associate Dean of Student Affairs: Dr. Luis G. Estrada Oliver
Associate Dean of Administrative Affairs: Sr. Brian Rivera Marrero
Department Chairs
Interim Director, Department of Programs and Teaching: Dr. Luis López Rivera
Director, Department of de Foundations of Education: Dr. Rubén Rosado González
Director, Department of Physical Education and Reacreation: Dr. Anthony Meléndez Nieves
Director, Department of Gradaute Studies: Dra. Farah A. Ramírez Marrero

Program Coordinators
Coordinator, Teaching Practicum: Dr. Rumar Rolón Narváez
Coordinator, Office of Strategic Planning and Evaluation: Profa. Consuelo Torres Burgos
Coordinator, Inclusive Technological Assistance Center: Dr. José M. Álvarez
Coordinator, Graduate Research Center: Dra. María Medina Díaz
Director, Center for Educational Research: Dra. Yarimar Rosa Rodríguez
Director, University High School: Prof. Miguel Hernández Delgado
Interim Director, Elementary School: Dra. Jackeline González Natal
Director, Preschool Development Center: Profa. Jackeline Adorno Ortiz
Coordinator, Early Childhood Center: Profa. Mari L. Mendoza Bas

History

The Eugenio María de Hostos School of Education is the academic unit responsible for the university-level training of teachers and other education professionals at the University of Puerto Rico.

The origins of the School (formerly the College of Pedagogy) date back to 1900, with the establishment of an Industrial Normal School in Fajardo to train teachers for the country's educational system. The following year (1901), the school was relocated to Río Piedras, to the Governors' Residence. Upon the founding of the University of Puerto Rico on March 12, 1903, through the Compiled School Law, the Normal School became the Department of Normal Education.

In 1902, the Industrial Normal School was inaugurated, and the Model School (now the Elementary School) was created to serve as a teaching laboratory for future educators. In 1904, the Department of Agriculture was established.

The academic development of the School of Home Economics began in 1908 with courses designed to train teachers. In 1909, Industrial Arts courses were introduced, along with an eight-

week summer program for teachers, including rural teaching certification courses in coordination with the island-wide Department of Education. In 1910, Associate Dean Felipe Janer led the summer session, which by 1911 had nearly 400 students enrolled in courses offered in Río Piedras and Mayagüez.

In 1917, a course was launched to prepare rural teachers. That same year, the School of Home Economics began offering a four-year program leading to a Bachelor of Arts in Education with a major in Home Economics.

In 1918, the University High School was established as part of a curriculum revision for teacher preparation. This revision concluded in 1919 and introduced a program leading to a Bachelor of Arts in Secondary Education and school administration. From that point, the Department of Normal Education was renamed the College of Normal Education.

By 1923, the College began offering intramural extension courses for in-service teachers.

In 1925, Law No. 50 reorganized the University, granting it institutional autonomy and separating it from the Department of Education. A comprehensive review of programs led to the offering of Bachelor of Arts in Education degrees in various specialties. As a result, the College of Normal Education was renamed the College of Education of the University of Puerto Rico.

In the 1930–31 academic year, a Bachelor of Science program was created to train nutritionists and dietitians. In 1942, majors in Child Development and Extension Work were approved. In 1933, the College began offering extramural extension courses to support in-service teachers.

With the passage of a new university law on May 7, 1942, the name was changed to College of Pedagogy, and a new structure was established with departments in Methodology and Practice, General Pedagogy, and Home Economics. In 1947, the Gerardo Sellés Solá Library and the Infant School were founded.

In 1950, the Audiovisual Center was created, later becoming the Educational Technology Center.

In 1961, a program for a Bachelor of Arts in Education with a major in Physical Education was launched, along with the creation of the Office of Research.

In 1964, the Secondary Education program with a major in Commercial Education began. The Graduate Studies Departmentalso launched programs leading to a Master's in Education with specializations in School Administration and Supervision and Secondary Education.

During the 1971–72 academic year, a Bachelor of Arts in Secondary Education with a major in Health was introduced (currently inactive). In 1974, the Special Education program began. In 1979, the Higher Education Council authorized a reevaluation of the Elementary Education program.

In 1980, the Council reactivated a revised Secondary Education program with a major in Recreation, originally created in 1971–72. In 1982, the Doctor of Education (Ed.D.) program was approved. In 1988, the Master's in Special Education program was approved, followed in 1989 by the Preschool Education, Elementary Level, and Reading Instruction programs, all leading to master's degrees.

In the 1994–95 academic year, the Board of Trustees and the Higher Education Council approved revisions to the Elementary Education program for K–3 and 4–6 majors, as well as the Nutrition and Dietetics program.

In 1996, the School of Home Economics was renamed the School of Family Ecology and Nutrition. In 1997, the Bachelor of Arts in Family Ecology with a major in Preschool Education was approved, replacing the Child Development major.

In 2001, the Office of Academic Affairs of the University of Puerto Rico's Central Administration authorized a non-substantial revision of the Teaching English to Spanish Speakers major at the elementary level, aligned with the revised Bachelor of Arts in Elementary Education.

The College of Pedagogy was officially renamed the School of Education in 1989. On May 2, 1995, a plaque was installed identifying the building as the Eugenio María de Hostos School of Education. In October 2000, as part of the centennial celebrations, a time capsule containing documents from the School's first 100 years was placed at the building's entrance. It is scheduled to be opened in the year 2100.

In 2008, a comprehensive revision of all undergraduate programs was completed. The updated program titles include:

- Bachelor of Arts in Preschool Education
- Bachelor of Arts in Arts Education
- Bachelor of Arts in Music Education
- Bachelor of Arts in Theater Education
- Bachelor of Arts in Secondary Education – Sciences
- Bachelor of Arts in Secondary Education – Biology
- Bachelor of Arts in Secondary Education – Chemistry
- Bachelor of Arts in Secondary Education – Mathematics
- Bachelor of Arts in Secondary Education – Physics
- Bachelor of Arts in Secondary Education – Social Studies
- Bachelor of Arts in Secondary Education – General Commercial Education
- Bachelor of Arts in Secondary Education – Physical Education
- Bachelor of Arts in Secondary Education – Teaching English to Spanish Speakers
- Bachelor of Arts in Elementary Education – Special Education
- Bachelor of Arts in Elementary Education – Teaching English to Spanish Speakers
- Bachelor of Arts in Elementary Education (K–3)
- Bachelor of Arts in Elementary Education (4–6)
- Bachelor of Arts in Secondary Education – Commercial Education – Secretarial Program
- Bachelor of Arts in Secondary Education – Family Ecology
- Bachelor of Arts in Family and Community Education
- Bachelor of Arts in Preschool Education

Another significant change at the undergraduate level was the transfer of the Nutrition and Dietetics Program to the College of Natural Sciences in 2009.

Several graduate programs were revised or incorporated into the curriculum between 2006 and 2013. For example, in 2006, the Master's Program in Exercise Science – Exercise Physiology was launched. In 2013, the Puerto Rico Council on Education approved the revision of the Master's and Doctoral programs in Curriculum and Instruction. This revision introduced three new areas of study at both the master's and doctoral levels: Educational Technology, Curriculum Theory, Design, and Evaluation, and Physical Education. The existing areas in Curriculum and Instruction—Science Education, History, Mathematics, and Spanish—were retained.

The Master's Program in Teaching English as a Second Language remains in effect according to its last revision in 1979. Meanwhile, the Master's and Doctoral programs in Administration and Supervision were renamed Leadership in Educational Organizations.

Between 2019 and 2021, three undergraduate programs were revised and consolidated:

- Bachelor of Arts in Education with a major in Elementary Level

- Bachelor of Arts in Secondary Education with a major in Social Studies and History
- Bachelor of Arts in Education with a major in Teaching English as a Second Language

Current Academic and Support Structure

The School of Education currently consists of the following academic departments:

- Foundations of Education
- Programs and Instruction
- Physical Education and Recreation
- Graduate Studies

The following support units assist in teaching and learning:

- Inclusive Technology Assistance Center
- Academic Computing Services Center
- Office of Guidance and Counseling
- Office of Strategic Planning and Assessment
- Center for Educational Research
- Office of External Resources and Collaborative Projects
- Laboratory Schools: *Infant School, Elementary School, and Secondary School*
- Infant and Toddler Lab, affiliated with the Office of the Dean of Students
- Child Development Center
- Gerardo Sellés Solá Library

Recognitions and Accreditations

The School of Education has been a member of the American Association of Colleges for Teacher Education (AACTE) since 1954.

All teacher preparation programs offered by the School of Education are accredited by the Council for the Accreditation of Educator Preparation (CAEP), formerly known as the National Council for Accreditation of Teacher Education (NCATE).

Degrees Offered

The School of Education grants the following degrees:

Undergraduate Programs – Bachelor of Arts in Education

With majors in:

- Elementary Level
- Special Education
- Art
- Teaching English as a Second Language (K–12)
- Theater

Bachelor of Arts in Secondary Education, with majors in:

- Spanish
- Mathematics
- Science
- Biology
- Chemistry

- Physics
- Social Studies/History
- Physical Education

Additional undergraduate degrees:

- Bachelor of Arts in Preschool Education
- Bachelor of Arts in Recreation Education
- Bachelor of Arts in Music Education

Graduate Programs – Master of Education

With specializations in:

- Exercise Science – Physiology
- Leadership in Educational Organizations
- Curriculum and Instruction
- Family Ecology and Nutrition
- Child Education (Reading, Preschool)
- Special Education
- Educational Research and Evaluation
- Teaching English as a Second Language
- Guidance and Counseling

Doctoral Programs – Doctor of Education (Ed.D.)

With specializations in:

- Leadership in Educational Organizations
- Curriculum and Instruction
- Guidance and Counseling

All programs include field experiences and research opportunities. The School emphasizes knowledge of construction, critical analysis, holistic development, and effective problem-solving in its teaching approach.

Student Services

The School of Education offers a wide range of support services and academic resources to enhance student learning and development:

- Gerardo Sellés Solá Library
- Center for Learning and Research Resources (CRAI)
- Student Computing and Technology Services Centers
- Center for Educational Research
- Graduate Research Center
- Institute for the Development of Education and Learning (IDEA-STEM)
- Center for the Study of Reading, Writing, and Children's Literature (CELELI)
- Project for Integrating Information Literacy into the Curriculum
- Teacher Induction Project
- Center for Higher Education Studies
- Guidance and Counseling Laboratory
- Inclusive Technology Assistance Center
- Porta-e – A formative assessment tool designed to support the development of core principles and competencies

- Resource Center for Student Teaching (CREPD)

Admission Requirements

Reclassification from the College of General Studies (First-Year Students)

Students who were admitted directly into the Bachelor's Program of the Eugenio María de Hostos School of Education do not need to reclassify. However, if they wish to change their major, this is considered a Second Alternative, and they must meet the required General Admission Index (IGS) and have a minimum GPA of 2.50.

Transfer from Another Faculty

Reclassification requests from other faculties or programs within the Río Piedras Campus must be submitted to the Registrar's Office (beginning in the second year). Requirements include:

- Minimum GPA of 3.00
- Availability of space

Change of Major

Internal reclassification requests within the School of Education must be submitted to the Registrar's Office at the Río Piedras Campus. Requirements include:

- Minimum GPA of 2.50
- Availability of space

Readmissions

Readmission requests to the Río Piedras Campus must be submitted to the Registrar's Office of the campus.

Applicants Without a Bachelor's Degree

- If previously enrolled in the School of Education: Minimum GPA of 2.50
- If from another faculty: Minimum GPA of 3.00
- Subject to space availability

Applicants With a Bachelor's Degree

Students who already hold a bachelor's degree and wish to take courses for Teacher Certification must present an evaluation from the Certification Division of the Puerto Rico Department of Education. If accepted, they will be admitted as Special Students (PRED) until all certification requirements are completed.

- If previously enrolled in the School of Education: Minimum GPA of 2.50
- If from another faculty: Minimum GPA of 3.00
- Subject to space availability

Transfers to the Río Piedras Campus

Articulated Transfers

Requests must be submitted through the Registrar's Office at the student's current campus.

- Completion of 60 credits
- Minimum GPA of 2.50

Regular Transfers

Requests must be submitted through the Registrar's Office at the student's current campus.

- Secondary Education:
  - 24 approved credits
  - Minimum GPA of 2.50
- Elementary Education:
  - 24 approved credits
  - Minimum GPA of 2.50

Transfers from Private Universities

Requests must be submitted through the Admissions Office of the Río Piedras Campus.

- Applicants without a bachelor's degree:
  - 30 approved credits
  - Minimum GPA of 3.00
  - Subject to space availability
- Applicants with a bachelor's degree:
  - Minimum GPA of 3.00
  - Subject to space availability

Applicants from Foreign Universities

- Official academic transcript must be certified by the Ministry of Education of the country of origin
- Submit official evidence of degrees or diplomas awarded
- Provide translations into Spanish or English of all submitted documents
- Include additional information to clarify:
  - The grading system used
  - The content and level of completed courses
  - The number of weekly hours per subject

Special Permits (Within the UPR System)

Requests for special permits to study at the Río Piedras Campus must be submitted through the Registrar's Office of the student's home campus.

- Must not be on academic probation
- Subject to course availability

Second Majors

Requests must be submitted through the Registrar's Office of the Río Piedras Campus.

- If currently enrolled in the School of Education: Minimum GPA of 2.50
- If from another faculty: Minimum GPA of 3.00
- Must be classified as a second-year student or higher
- Subject to space availability

Additional Notes

Applicants seeking Transfer, Change of Major, Change of Faculty, or Readmission to the English Program must, in addition to meeting general admission requirements, pass an interview and entrance exam prior to admission.

Students who already hold a bachelor's degree and wish to pursue Teacher Certification will be admitted as Special Students (PRED) until they complete the required coursework.

Graduation Requirements

ACADEMIC PROGRAMS

Program Description

BACHELOR OF ARTS DEGREE PROGRAMS IN:

Early Childhood Education

This program focuses on the education of young children, including infants, toddlers, and preschoolers. Recognizing the importance of learning during the early years of a child's life, it prepares future educators to develop and implement educational skills in a comprehensive and creative manner appropriate for early childhood development.

BACHELOR OF ARTS DEGREE PROGRAMS IN:

Elementary Education

This program focuses on KindergArtn through Sixth Grade. In addition to selecting their preferred area of emphasis, students choose a content area: Science, Spanish, Mathematics, or Social Studies. The program prepares future elementary school teachers by introducing innovative teaching theories and strategies, evaluating and creating educational materials, and exploring approaches to reading instruction and writing processes. It equips educators to integrate academic subjects and technology, conduct continuous assessment, and address the needs of students with special needs.

Special Education

This program prepares future teachers to serve a growing population of students requiring specialized support. It emphasizes the development of professionals capable of delivering high-quality education tailored to diverse learning needs.

SECONDARY EDUCATION

General Science, Biology, Physics, or Chemistry

This program offers four areas of major: General Science, Biology, Physics, and Chemistry. Teacher candidates engage in both action-based and scientific research in laboratory classrooms and partner schools that serve as clinical and practicum sites. Science learning combines theory and practice in real-world settings using innovative technologies.

Mathematics

The Secondary Mathematics Program aims to prepare future educators to support the educational goals of the Puerto Rico Department of Education and other international systems. It promotes comprehensive learning experiences that foster mathematical reasoning for problem-solving and decision-making in everyday life. The program integrates manipulatives and technology to help students see the relevance of mathematics in daily contexts.

Spanish

This program prepares educators to teach the Spanish language effectively, encouraging learners to construct their own knowledge by leveraging individual talents. Spanish teachers refine their skills in text analysis, writing processes, oral expression, ethical attitudes toward vernacular language, and critical thinking. Technology is incorporated as a powerful instructional tool.

Social Studies/History

The Social Studies/History Program prepares educators to transform classrooms into meaningful learning environments and become leaders in a discipline that promotes civic engagement. Teachers will foster critical thinking and encourage students to investigate their social and historical realities. The program offers access to premier resources at the University of Puerto Rico, including the Center for Social Research, Center for Historical Research, Center for Archaeological Research, Center for Educational Research, and the Museum of History, Anthropology, and Art.

K–12 EDUCATION

Teaching English as a Second Language (ESL)

This program prepares future educators to teach English creatively and dynamically as a second language. It emphasizes mastery of the four language arts: reading, writing, speaking, and listening. Teachers will integrate emerging technologies such as interactive whiteboards, the internet, tablets, educational software, and smartphones. The ESL Program is among the most in-demand teaching fields in both Puerto Rico and the United States.

Music

This program prepares future educators with musical skills and knowledge to design, lead, implement, evaluate, and promote music education activities. It develops competencies in forming instrumental ensembles, choirs, bands, handbell groups, and teaching both professional and general music. Graduates may teach at both elementary and secondary levels.

Theater

This program prepares future theater educators for elementary and secondary schools. It includes coursework in methodology, psychology, human and educational foundations, language arts, curriculum design, and the needs of exceptional students. Specialized courses include theater history, diction, stage direction, children's theater, acting, set design, pantomime, and the use of technology.

Art

The Art Education Program prepares professionals to integrate their knowledge, skills, experiences, and creativity into teaching. Future educators will promote values through creative expression in visual arts and incorporate new technologies to enhance artistic expression.

Physical Education and Recreation

The Department of Physical Education and Recreation offers two programs that promote physical and mental well-being.

- The K–12 Physical Education Program supports the physical development of students, aiming to cultivate individuals who are physically educated and confident in enjoying lifelong physical activity.
- The Recreation Program trains professionals to help citizens rejuvenate through hobbies, games, celebrations, and personal growth. It encourages healthy use of leisure time and promotes exercise as a therapeutic alternative, emphasizing a physically and mentally healthy population.

Curricular Sequences

ELEMENTARY EDUCATION – SPECIAL EDUCATION (EMPHASIS ON

BEHAVIORIAL DISORDERS)

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
EDFU 3011 - Human Development Foundations	3	CISO 3122 - Social Sciences II	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
CISO 3121 - Social Sciences I	3	HUMA ___ - Humanities II	3
HUMA ___ - Humanities I	3	EDES 4006** - Nature and Needs of Exceptional Learners	3
Total	18	Total	18

Second year

First semester	Crs.	Second semester	Crs.
___ ___ - Literature	3	___ ___ - Literature	3
EDPE 3020 - Music and Body Movement in the Primary Grades	3	HIST ___** - History of Puerto Rico	3
HIST ___** - History of United States	3	EDPE 4005 – Nature and Needs of Children with Emotional Disturbances Prerequisite: EDES 4006.	3
___ ___ - Art	3	TEED 3017** - Characteristics and Needs of Children with Emotional Challenges	3
EDFU 3007 - Social Foundations of Education	3	EDFU 3013 - Learning Evaluation Prerequisite: EDFU 3011.	3
___ ___ - Logical-Mathematical Thinking	3	EDES 4019 - Nature and Diagnosis of Specific Learning Disabilities in Children Prerequisite: EDES 4006.	3
		FAED 4001- Professional Reflective Seminar I Concurrent withEDES 4019.	1
Total	18	Total	19

Third year

First semester	Crs.	Second semester	Crs.
EDPE 3060 - The Development of Reading and Writing Skills at the Elementary Level	3	EDPE 4121 - Seminar: Curriculum, Teaching, Learning, and Assessment- Part I Prerequisites: 65% (27 credits) of the major and emphasis of courses passed with a grade of C or higher, 65% (55 credits) of the general education and core courses, and FAED 4001.	3
EDES 4048 (emphasis) - Applied Behavior Modification in the School Setting Prerequisite: EDES 4006	3	FAED 4002- Professional Reflective Seminar II Concurrent with EDPE 4121.	1

EDFU 4019 - Philosophical Foundations of Education	3	EDFU 4007 -Research Principles	3
EDES 3205 - Assistive Technology in Special Education	3	EDES 4026** - Management and Administration of the Inclusive Classroom Prerequisite: EDES 4006.	3
EDES 4057 (emphasis) - Curriculum and Educational Practices for Students with Emotional or Behavioral Disorders Prerequisite: EDES 4006.	3	EDES 4018 (emphasis) - Teaching Students with Mild Intellectual Disabilities Prerequisite: EDES 4006.	3
EDPE 3011 - The teaching of Mathematics at the elementary level Prerequisite: Logical-Mathematical Thinking	3	EDES 4047 (emphasis) - Educational Approaches for Children with Emotional Disorders Prerequisite: EDES 4006 and EDES 4005.	3
		Free elective	3
Total	18	Total	19

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 3034 - Assessment and Diagnosis in the Reading and Writing Development Process Prerequisites: EDPE 3060 AND EDFU 3013	3	EDES 4106 - Student Teaching Practicum – Behavioral disorders Prerequisites: EDPE 4122 and 95% (126 credits) approved courses (FAED 4001 and FAED 4002).	4
EDES 4000 - Teaching Methodology in Special Education for Grades K–12 Prerequisites: EDPE 4121 and 85% (108 credits) of the major and emphasis of courses approved with a C or higher, general education courses, core/professional courses, and FAED 4002.	3	FAED 4003 - Professional Reflective Seminar III Concurrent with EDES 4106.	1
EDPE 3058 - The teaching of grammar in elementary school	3		
EDPE 3050 - Visual and Performing Arts at the Elementary Level	3		
EDPE 4122 - Seminar: Curriculum, Teaching, Learning, and Assessment II Prerequisites: EDPE 4121 and 85% (108 credits) of the major and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3		
Free elective	3		
Total	18	Total	5

Total credits	133

Rev. 2012-2018, Rev. 2023-2024

*Students will be placed in these courses based on their College Board achievement scores in Spanish and English.

This is a Requirement for Teacher Certification by the Puerto Rico Department of Education (Regulation 2022).

This course sequence is based on 18 credits per semester over four years. You may consider taking summer courses or extending your studies to additional semesters in order to take 12 or 15 credits per semester..

ELEMENTARY EDUCATION – SPECIAL EDUCATION
(EMPHASIS IN HEARING IMPAIRMENT AND DEAFNESS)
First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
EDFU 3011 - Human Development Foundations	3	CISO 3122 - Social Sciences II	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
CISO 3121 - Social Sciences I	3	HUMA ___ - Humanities II	3
HUMA ___ - Humanities I	3	EDES 4006** - Nature and Needs of Exceptional Learners	3
Total	18	Total	18

Second year

First semester	Crs.	Second semester	Crs.
___ ___ - Literature	3	___ ___ - Literature	3
EDPE 3020 - Music and Body Movement in the Primary Grades	3	HIST ___** - History of Puerto Rico	3
HIST ___** - History of United States	3	EDPE 4005 – Nature and Needs of Children with Emotional Disturbances	3
___ ___ - Art	3	TEED 3017** - Characteristics and Needs of Children with Emotional Challenges	3
EDFU 3007 - Social Foundations of Education	3	EDFU 3013 - Learning Evaluation Prerequisite: EDFU 3011.	3
___ ___ - Logical-Mathematical Thinking	3	EDES 4019 - Nature and Diagnosis of Specific Learning Disabilities in Children Prerequisite: EDES 4006	3
		FAED 4001- Professional Reflective Seminar I Concurrent with EDES 4019	1
Total	18	Total	19

Third year

First semester	Crs.	Second semester	Crs.
EDPE 3060 -Development of Reading and Writing Skills at the Primary Level	3	EDPE 3011 - The teaching of Mathematics at the elementary level Prerequisite: Logical-Mathematical Thinking.	3
EDFU 4019 - Philosophical Foundations of Education	3	EDPE 4121 - Seminar: Curriculum, Teaching, Learning, and Assessment- partI Prerequisites: 65% (27 credits) of the major and emphasis of courses passed with a grade of C or higher, 65% (55 credits) of the general education and core courses, and FAED 4001.	3
EDES 3205 - Assistive Technology in Special Education Prerequisite: EDES 4006.	3	FAED 4002- Professional Reflective Seminar II Concurrent with EDPE 4121.	1
EDES 4115 (emphasis) - Methodology for Teaching Reading to Deaf and Hard-of-Hearing Students* Prerequisite: EDES 4006.	3	EDES 4026** - Management and Administration of the Inclusive Classroom Prerequisite: EDES 4006.	3
EDES 4075 (emphasis) - Nature and Needs of Children with Hearing Impairment Prerequisite: EDES 4006.	3	EDES 4116 (emphasis) - Methods for Teaching Reading to Deaf and Hard-of-Hearing Students	3
Free elective	3	EDES 4076 (emphasis) - Curriculum and Teaching Strategies for Deaf and Hard-of-Hearing Student Prerequisite: EDES 4006.	3
		EDES 4077 (emphasis) - Communication Techniques for Individuals with Hearing Impairments	3
Total	18	Total	19

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 3034 - Assessment and Diagnosis in the Reading and Writing Development Process Prerequisites: EDPE 3060 AND EDFU 3013.	3	EDES 4110 - Student Teaching Practicum - Students with Hearing Impairments Prerequisites: EDPE 4122 and 95% (126 credits) approved courses (FAED 4001 and FAED 4002)	4
EDES 4000 - Teaching Methodology in Special Education for Grades K–12 Prerequisites: EDPE 4121and 85% (108 credits) of themajor and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3	FAED 4003 - Professional Reflective Seminar III Concurrent with EDES 4110	1
EDPE 3050 - Visual and Performing Arts at the Elementary Level	3		

EDFU 4007 -Research Principles	3		
EDPE 4122 - Seminar: Curriculum, Teaching, Learning, and Assessment II Prerequisites: EDPE 4121and 85% (108 credits) of the major and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3		
Free elective	3		
Total	18	Total	5

Total credits	133

Rev. 2012-2018, Rev. 2023-2024

*Students will be placed in these courses based on their College Board achievement scores in Spanish and English.

This is a Requirement for Teacher Certification by the Puerto Rico Department of Education (Regulation 2022).

This sequence is based on 18 credits per semester over four years. You may consider taking summer courses or adding semesters to take 12 or 15 credits per term.

ELEMENTARY EDUCATION – SPECIAL EDUCATION
(EMPHASIS IN VISUAL IMPAIRMENT)

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
EDFU 3011 - Human Development Foundation	3	CISO 3122 - Social Sciences II	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
HUMA ___ - Humanities I	3	HUMA ___ - Humanities II	3
CISO 3121 - Social Sciences I	3	EDES 4006** - Nature and Needs of Exceptional Learners	3
Total	18	Total	18

Second year

First semester	Crs.	Second semester	Crs.

___ ___ - Literature	3	___ ___ - Literature	3
EDPE 3020 - Music and Body Movement in the Primary Grades	3	HIST ___** - History of Puerto Rico	3
HIST ___** - History of United States	3	EDES 4005 - Nature and Needs of Children with Emotional Disturbances	3
___ ___ - Art	3	TEED 3017** - Characteristics and Needs of Children with Emotional Challenges	3
EDFU 3007 - Social Foundations of Education	3	EDFU 3013 - Learning Evaluation Prerequisite: EDFU 3011.	3
___ ___ - Logical-Mathematical Thinking	3	EDES 4019 - Nature and Diagnosis of Specific Learning Disabilities in Children Prerequisite: EDES 4006.	3
		FAED 4001- Professional Reflective Seminar I Concurrent with EDES 4019.	1
Total	18	Total	19

Third year

First semester	Crs.	Second semester	Crs.
EDPE 3060 - Reading and writing development at the elementary level II lectoescritura en el nivel elemental	3	EDPE 3011 - Teaching Mathematics at the Elementary Level Prerequisite: Logical-Mathematical Thinking.	3
EDFU 4019 - Philosophical Foundations of Education	3	EDPE 4121 - Seminar: Curriculum, Teaching, Learning, and Assessment I Prerequisites: 65% (27 credits) of the major and emphasis of courses completed with a grade of C or higher, 65% (55 credits) of the general education and core courses, and FAED 4001.	3
EDES 3205 - Technology Assistance in Special Education Prerequisite: EDES 4006.	3	FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4121.	1
EDES 4028 (emphasis) - Nature and Needs of Individuals with Visual Impairments Prerequisite: EDES 4006.	3	Free elective	3
EDES 4029 (emphasis) - Curriculum in the Education of Children with Visual Impairments Prerequisite: EDES 4006	3	EDES 4026** - Management and Administration of the Inclusive Classroom Prerequisite: EDES 4006.	3
EDES 4040 (emphasis) - Contracted Braille Prerequisite: EDES 4037.	3	EDPE 4037 (emphasis) - Communicology in the Education of Individuals Who Are Blind or Visually Impaired Prerequisite: EDES 4006.	3
		EDES 4038 (emphasis) - Orientation and Mobility Prerequisite: EDES 4006.	3

Total	18	Total	19

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 3034 - Assessment and Diagnosis in the Literacy Process Prerequisites: EDPE 3060 and EDFU 3013	3	EDES 4107 - Student Teaching Practicum - Visual Impairments Prerequisites: EDPE 4122 and 95% (126 credits) approved courses (FAED 4001 and FAED 4002).	4
EDES 4000 - Teaching Methodology in Special Education for Grades K–12 Prerequisites: EDPE 4121and 85% (108 credits) of the major and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3	FAED 4003- Professional Reflective Seminar III Concurrent with EDES 4107.	1
EDPE 3050 - Visual and Performing Arts at the Elementary Level	3		
Free elective	3		
EDFU 4007 -Research Principles	3		
EDPE 4122 - Seminar: Curriculum, Teaching, Learning, and Assessment II Prerequisites: EDPE 4121and 85% (108 credits) of the major and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3		
Total	18	Total	5

Total credits	133

Rev. 2012-2018 Rev. 2023-2024

*Students will be placed in these courses based on their College Board achievement scores in Spanish and English.

**Requirements Teacher Certification from the Department of Education (Regulation 2022).

This sequence is based on 18 credits per semester over four years. You may consider taking summer courses or adding semesters to take 12 or 15 credits per term.

ELEMENTARY EDUCATION - SPECIAL EDUCATION (EMPHASIS ON SPECIFIC LEARNINF DISABILITIES)

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___ * - Basic English I	3	INGL ___* - Basic English II	3
EDFU 3011 - Human Development Foundations	3	CISO 3122 - Social Sciences II	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
CISO 3121 - Social Sciences I	3	HUMA ___ - Humanities II	3
HUMA ___ - Humanities I	3	EDES 4006** - Nature and Needs of Exceptional Learners	3
Total	18	Total	18

Second year

First semester	Crs.	Second semester	Crs.
___ ___ - Literature	3	___ ___ - Literature	3
EDPE 3020 - Music and Body Movement in the Primary Grades	3	HIST ___** - History of Puerto Rico	3
HIST ___** - History of United States	3	EDES 4005 - Nature and Needs of Children with Emotional Disturbances Prerequisite: EDES 4006.	3
___ ___ - Art	3	TEED 3017** - Characteristics and Needs of Children with Emotional Challenges	3
EDFU 3007 - Social Foundations of Education	3	EDFU 3013 - Learning Evaluation Prerequisite: EDFU 3011	3
___ ___ - Logical-Mathematical Thinking	3	EDES 4019 - Nature and Diagnosis of Specific Learning Disabilities in Children Prerequisite: EDES 4006.	3
		FAED 4001 - Professional Reflective Seminar I Concurrent with EDES 4019.	1
Total	18	Total	19

Third year

First semester	Crs.	Second semester	Crs.
EDPE 3060 -Development of Reading and Writing Skills at the Primary Level (k-3)	3	EDPE 4121 - Seminar: Curriculum, Teaching, Learning, and Assessment I Completion of 65% (27 credits) of major and emphasis courses with a grade of C or higher; completion of 65% (55 credits) of general education and core courses and FAED 4001.	3
EDES 3028 (emphasis) - New Trends in the Education of Exceptional Children in the Classroom Prerequisite: EDES 4006.	3	FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4121	1

EDFU 4019 - Philosophical Foundations of Education	3	EDFU 4007 -Research Principles	3
EDES 3205 - Assistive Technology in Special Education Prerequisite: EDES 4006.	3	EDES 4026** - Management and Administration of the Inclusive Classroom Prerequisite: EDES 4006	3
EDES 4065 (emphasis) - Nature and Needs of Students with Specific Learning Disabilities Prerequisite: EDES 4006.	3	EDES 4039 (emphasis) - Techniques for Remediation of Specific Learning Disabilities Prerequisite: EDES 4006	3
EDPE 3011 - The teaching of Mathematics at the elementary level Prerequisite: Logical-Mathematical Thinking	3	EDES 4085 (emphasis) - Methods for Designing, Organizing, and Managing Resource Room Programs in Special Education Prerequisite: EDES 4006	3
		Free elective	3
Total	18	Total	19

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 3034 - Assessment and Diagnosis in the Reading and Writing Development Process	3	EDES 4109 - Student Teaching Practicum - Specific Learning Disabilities Prerequisites: EDPE 4122 and 95% (126 credits) approved courses (FAED 4001 and FAED 4002)	4
EDES 4000 - Teaching Methodology in Special Education for Grades K–12 Prerequisites: EDPE 4121and 85% 108 credits) of the major and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3	FAED 4003- Professional Reflective Seminar III Concurrent with EDES 4109	1
EDPE 3058 - Teaching Grammar at the Elementary Level	3		
EDPE 3050 - Visual and Performing Arts at the Elementary Level	3		
EDPE 4122 - Seminar: Curriculum, Teaching, Learning, and Assessment Prerequisites: EDPE 4121and 85% (108 credits) of the major and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3		
Free elective	3		
Total	18	Total	5

Total credits	133

Rev. 2012-2018 Rev. 2023-2024

*Students will be placed in these courses based on their scores in Spanish and English on the College Board achievement tests.
**Requirement for Teacher Certification from the Puerto Rico Department of Education (Regulation 2022).

This sequence is based on 18 credits per semester over four years. You may consider taking summer courses or adding semesters to take 12 or 15 credits per term.

ELEMENTARY EDUCATION – SPECIAL EDUCATION (EMPHASIS IN INTELLECTUAL DISABILITIES)

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
EDFU 3011- Foundations of Human Development	3	CIFI ___ - Physical Sciences	3
CIBI ___ - Biological Sciences	3	CISO 3122 - Social Sciences II	3
CISO 3121 - Social Sciences I	3	HUMA ___ - Humanities II	3
HUMA ___ - Humanities I	3	EDES 4006** - Nature and Needs of Exceptional Learners	3
Total	18	Total	18

Second year

First semester	Crs.	Second semester	Crs.
___ ___ - Literature	3	___ ___ - Literature	3
EDPE 3020 - Music and Body Movement in the Primary Grades	3	HIST ___** - History of Puerto Rico	3
HIST ___** - History of United States	3	EDES 4005 - Nature and Needs of Children with Emotional Disturbances Prerequisite: EDES 4006	3
___ ___ - Art	3	TEED 3017** - Integration of Instructional Technology and Computers into the Elementary Curriculum	3
EDFU 3007 - Social Foundations of Education	3	EDFU 3013 - Learning Evaluation Prerequisite: EDFU 3011	3

___ ___ - Logical-Mathematical Thinking	3	EDES 4019 - Nature and Diagnosis of Specific Learning Disabilities in Children Prerequisite: EDES 4006	3
		FAED 4001- Professional Reflective Seminar I Concurrent with EDES 4019	1
Total	18	Total	19

Third year

First semester	Crs.	Second semester	Crs.
EDPE 3060 -Development of Reading and Writing Skills at the Primary Level (k-3)	3	EDPE 4121 - Seminar: Curriculum, Teaching, Learning, and Assessment I Prerequisites: 65% (27 credits) of the major and emphasis of courses passed with a grade of C or higher, 65% (55 credits) of the general education and core courses, and FAED 4001.	3
EDES 4015 (emphasis) - Nature and Needs of Children with Intellectual Disabilities Prerequisite: EDES 4006	3	FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4121	1
EDFU 4019 - Philosophical Foundations of Education	3	EDFU 4007 -Research Principles	3
EDES 3205 - Assistive Technology in Special Education	3	EDES 4026** - Management and Administration of the Inclusive Classroom Prerequisite: EDES 4006	3
EDES 4008 (emphasis) - Education of Children with Multiple Disabilities Prerequisite: EDES 4006	3	EDES 4016 (emphasis) - Metholdology and curriculum for Children with Intellectual Disabilities Prerequisites: EDES 4015, EDES 4006 and EDES 4008	3
EDPE 3011 - The teaching of Mathematics at the elementary level Prerequisite: Logical-Mathematical Thinking	3	EDES 4018 (emphasis) - Teaching Students with Mild Intellectual Disabilities Prerequisites: EDES 4015, EDES 4006 and EDES 4008	3
		Free elective	3
Total	18	Total	19

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 3034 - Assessment and Diagnosis in the Reading and Writing Development Process Prerequisites: EDPE 3060 and EDFU 3013	3	EDES 4105 - Student Teaching Practicum - Retardación mental Prerequisites: EDPE 4122 and 95% (126 credits) approved courses (FAED 4001	4

		and FAED 4002)	
EDES 4000 - Teaching Methodology in Special Education for Grades K–12 Prerequisites: EDPE 4121and 85% (108 credits) of the major and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3	FAED 4003 - Professional Reflective Seminar III Concurrent with EDES 4105	1
EDPE 3058 - The teaching of grammar in elementary school	3		
EDPE 3050 - Visual and Performing Arts at the Intermediate Level	3		
EDPE 4122 - Seminar: Curriculum, Teaching, Learning, and Assessment II Prerequisites: EDPE 4121and 85% (108 credits) of the major and emphasis of courses passed with a grade of C or higher, general education courses, core/professional courses, and FAED 4002.	3		
Free elective	3		
Total	18	Total	5

Total credits	133

Rev. 2012-2018 Rev. 2023-2024

*Students will be placed in these courses based on their scores in Spanish and English on the College Board achievement tests.
**Requirement for Teacher Certification from the Puerto Rico Department of Education (Regulation 2022).

This sequence is based on 18 credits per semester over four years. You may consider taking summer courses or adding semesters to take 12 or 15 credits per term.

ELEMENTARY EDUCATION

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
EDFU 3011 - Human Development Foundations	3	CISO 3122 - Social Sciences II	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
HUMA ___ - Humanities	3	HUMA ___ - Humanities	3

CISO 3121 - Social Sciences I	3	EDFU 3012- Educational Phsychology Prerequisite: EDFU 3011.	3
		FAED 4001- Professional Reflective Seminar I Concurrent with EDFU 3012.	1
Total	18	Total	19

Second year

First semester	Crs.	Second semester	Crs.
___ ___ - Literature	3	Free elective	3
EDPE 3013 - La enseñanza de la lengua materna en el nivel elemental	3	___ ___ - EMPHASIS COURSE	3
EDES 4006 - Nature and Needs of Exceptional Learners	3	EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Needs in the Regular Education Classroom	3
EDPE 3006 - La enseñanza de los estudios sociales en el nivel elemental	3	TEED 3017 - Integration of Instructional Technology and Computer Use in the Elementary Curriculum (Including Distance and Virtual Learning)	3
EDFU 3013 - Learning Evaluation Prerequisites: EDFU 3011 and EDFU 3012	3	EDFU 3007 - Social Foundations of Education	3
___ ___ - Logical-Mathematical Thinking	3	EDPE 3060 - The Development of Reading and Writing Skills at the Elementary Level (Part1)	3
Total	18	Total	18

Third year

First semester	Crs.	Second semester	Crs.
EDFU 4007 -Research Principles	3	EDPE 4121 - Seminar: Curriculum, Teaching, Learning, and Assessment I Prerequisites: 65% of the major courses passed with a grade of C or higher, core/professional courses, general education courses, and FAED 4001.	3
EDPE 3237 – The teaching of science at the elementary level	3	FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4121 (Prerequisite: FAED 4001)	1
___ ___ - Literature	3	___ ___ - Art Prerequisite: Logical-Mathematical Thinking	3

EDFU 4019 - Philosophical Foundations of Education	3	EDPE 4007 – Children Literature Prerequisites: EDPE 3013 Concurrent with EDPE 4121	3
___ ___ – EMPHASIS COURSE	3	EDPE 3049 - El kindergarten in the school program Take in Third o Fourth year.	3
EDPE 4075 – Experiences in creators in the Visual Arts, Music, and Theatre	3	___ ___ - EMPHASIS COURSE	3
		HIST ___ - History of Puerto Rico	3
Total	18	Total	19

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 4122 - Seminar: Curriculum, Teaching, Learning, and Assessment II Prerequisites: EDPE 4121 and 85% of the major courses passed with a grade of C or higher, core and general education courses, and FAED 4002. Concurrent with EDPE 3034.	3	EDPE 4068 - Student Teaching Practicum at the elementary level Prerequisite: EDPE 4122, 95% approved courses. Concurrent with EDPE 4068.	4
EDPE 3034 – Evaluation and diagnostic of the reading and writing process Prerequisites: EDPE 3013, EDPE 3070 and EDFU 3013. Concurrent with EDPE 4122.	3	FAED 4003 - Professional Reflective Seminar III	1
EDPE 3011 - The teaching of Mathematics at the elementary level Prerequisite: Logical-Mathematical Thinking	3		
HIST ___ - History of United States	3		
___ ___ - EMPHASIS COURSE	3		
EDFU 3046 – Health Education	3		
Total	18	Total	5

Total credits	133

Revised in 2023-2024 academic year

* Students will be placed in these courses according to their College Board achievement scores

EMPASIS AREA (THE STUDENT WILL SELECT AN EMPHASIS AREA)

MATHEMATICS		CRS.
EDPE 3106	Teaching of statistics and probability at the elementary level	3
EDPE 3118	Geometry and measurement for teachers at the elementary level	3

EDPE 3119	Algebra Concepts for Elementary-Level Teachers	3
EDPE 4149	Teaching Problem-Solving in Elementary Mathematics	3
SPANISH		CRS.
EDPE 3070	Reading and writing development at the elementary level II Prerequisite: EDPE 3060	3
EDPE 3058	The teaching of grammar at the elementary level	3
EDPE 4034	Constructivist Strategies for Reading Comprehension and Text Production Prerequisite: EDPE 3060	3
EDPE 4010	Teaching Written Discourse for Elementary-Level Teachers	3
SCIENCE		CRS.
EDPE 3236	Nature of Science	3
EDPE 4055	Teaching Biology for Elementary-Level Teachers	3
EDPE 4057	Principles of Earth Science for Elementary-Level Teachers	3
EDPE 3048	Integrated Chemistry and Physics Course for Elementary-Level Teachers	3
SOCIAL STUDIES		CRS.
EDPE 3154	Teaching Social Studies to Promote Cultural Diversity Education	3
EDPE 3155	Development of Thinking Skills in Social Studies	3
GEOG 3100 o GEOG 3165	Elements of Geography	3
CIPO 3011	Principles and Issues in Political Science	3

SECONDARY EDUCATION – PHYSICS

First year

First semester	Crs.	Second semester	Crs.
ESPA ___ * - Basic Spanish I	3	ESPA ___ * - Basic Spanish II	3
INGL ___ * - Basic English I	3	INGL ___ *- Basic English II	3
CIBI ___ - Biological Sciences	3	MATE 3152 - Calculus II Prerequisite: MATE 3151 (Calculus)	4
___ ___ - Logical-Mathematical Thinking (Calculus) Prerequisite: MATE 3023-3024 o 3018 (Precalculus)	4	CIFI ___ - Physical Sciences	3
		EDFU 3012 - Foundations of Educational Psychology	3
		FAED 4001 - Professional Reflective Seminar I Requirement: Concurrent with EDFU 3012	1
Total	13	Total	17

Second year

First semester	Crs.	Second semester	Crs.
HUMA ___ - Humanities I	3	HUMA ___ – Humanities II	3
QUIM 3001- General Chemistry I Prerequisite: MATE 3023-3024 o MATE 3018 (Precalculus)	4	QUIM 3002- General Chemistry II Prerequisite: QUIM 3001	4
FISI 3011 - University Physics I FISI 3013 - Laboratorio de University Physics I o FISI 3001 - General Physics I FISI 3003 - General Physics I Laboratory Prerequisite: MATE 3151 (Calculus)	3 1	FISI 3012 - University Physics II FISI 3014 - University Physics II Laboratory o FISI 3002 - General Physics II FISI 3004 - General Physics II Laboratory Prerequisite: FISI 3011 o FISI 3001 and FISI 3013 o FISI 3003	3 1
TEED 3018 - Integrating Instructional Technology and Computers into the Secondary-Level Curriculum	3	EDFU 3013 - Learning Evaluation	3
CISO 3121 - Social Sciences I	3	CISO 3122- Social Sciences II	3
Total	17	Total	17

Third year

First semester	Crs.	Second semester	Crs.
EDES 4006 - Nature and Needs of Exceptional Learners	3	EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom Prerequisite: EDES 4006.	3
EDFU 4007 -Research Principles	3	Literature	3
FISI 3025 - Elementary Modern Physics Prerequisite: FISI 3002 and FISI 3012	3	Directed Elective in Physics (FISI 4041 - Special Topics in Physics)	3
EDFU 3007 - Social Foundations of Education	3	HIST ___ - History of Puerto Rico	3
BIOL 3101 - General Biology I Prerequisite: QUIM 3001	4	EDPE 4103 - Teaching STEM at the Secondary Level Prerequisite: Having completed at least 75% of the credits required in the specialty component, including the course TEED 3018	3
Free elective	3	EDFU 4019 - Philosophical Foundations of Education Prerequisite: EDFU 3011 and EDFU 3012	3
Total	18	Total	19

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 4255 - Language Arts in the Secondary Curriculum Areas	3	EDPE 4348 - Practicum in Teaching Physics at the Secondary Level Prerequisite: EDPE 4116 and 95% of the approved courses	4
EDPE 4116 - Methodology for Teaching Science at the Secondary Level Prerequisites: 85% Major courses passed with a grade of C or higher, general education courses, and core/professional courses FAED 4001.	4	FAED 4003 - Professional Reflective Seminar III Concurrent with EDPE 4348. Prerequisites: FAED 4001 and FAED 4002.	1
FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4116	1	HIST ___** - Elective in History of United States	3
Literature	3		
FISI (Directed Elective in Physics)	3		
FISI (Directed Elective in Physics)	3		
Art	3		
Total	20	Total	8

Total credits	129

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.

** Requirement Teacher Certification from the Department of Education (Regulation 2022)

Based on the results of the College Board mathematics achievement tests and the mathematics placement test administered by the College of Natural Sciences, students will be placed in the appropriate mathematics course. Before enrolling in MATE 3151, students may be required to take MATE 3023, 3024, or 3018 (Precalculus), or MATE 3001, or both. These courses are not degree-applicable.

Students are also required to have and provide evidence of scientific research experience in some of the courses taken within the Natural Sciences. They should consult their academic advisor.

SECONDARY EDUCATION – BIOLOGY

First year

First semester	Crs.	Second semester	Crs.
ESPA ___ * - Basic Spanish I	3	ESPA ___ * - Basic Spanish II	3

INGL ___ * - Basic English I	3	INGL ___ *- Basic English II	3
CIBI ___ - Biological Sciences	3	CISO 3121 - Social Sciences	3
___ ___ - Logical-Mathematical Thinking (Calculus I) Prerequisite: MATE 3023-3024 o 3018 (Precalculus)	4	HUMA ___ - Humanities	3
		CIFI ___ - Physical Sciences	3
		EDFU 3012 - Foundations of Educational Psychology	3
		FAED 4001 - Professional Reflective Seminar I Requirement: Concurrent with EDFU 3012.	1
Total	13	Total	19

Second year

First semester	Crs.	Second semester	Crs.
HUMA ___ - Humanities	3	TEED 3018 - Integrating Instructional Technology and Computers into the Secondary-Level Curriculum	3
EDFU 3013 - Learning Evaluation Prerequisite: EDFU 3012.	3	BIOL 3101 - General Biology I o BIOL 3102 - General Biology II Prerequisite: QUIM 3001	4
QUIM 3001 - General Chemistry I Prerequisite: Precalculus (MATE 3023-3024 o 3018).	4	EDFU 3007 - Social Foundations of Education	3
CISO 3122 - Introduction to Social Sciences II	3	QUIM 3002 - General Chemistry II Prerequisite: QUIM 3001	4
FISI 3011 - University Physics I o FISI 3001 - General Physics I FISI 3013 - University Physics I laboratory or FISI 3003 - General Physics I Laboratory Prerequisite: Calculus I.	3 1	___ ___ - Literature	3
		EDES 4006 - Nature and Needs of Exceptional Learners	3
Total	17	Total	20

Third year

First semester	Crs.	Second semester	Crs.
___ ___ – Statistics Course (MATE 3101 or MATE 3026) Prerequisite: MATE 3023-3024 or MATE 3018.	3	BIOL 3111 - Introduction to ecology Prerequisite: BIOL 3101 and BIOL 3410 or BIOL 3425	3
BIOL 3410 - Plant Organismal Biology l or BIOL 3425 - Animal Organismal Biology	4	HIST ___ - History of Puerto Rico	3
BIOL 3349 – Genetics and evolution Prerequisites: BIOL 3101 and Statistics.	3	Guided elective in Biology	3

EDFU 4007 -Research Principles Prerequisite: EDFU 3007.	3	EDPE 4103 - Teaching STEM at the Secondary Level Prerequisite: Having completed at least 75% of the credits required in the specialty component, including the course TEED 3018.	3
___ ___ – Laboratory (Ecology, Genetics or Biotechnology)	1	EDFU 4019 - Philosophical Foundations of Education	3
___ ___ - Literature	3	Free elective	3
EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom Prerequisite: EDES 4006.	3		
Total	20	Total	18

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 4116 - Methodology for Teaching Science at the Secondary Level Requirement: 85% of the major courses must be passed with a grade of C or higher, including general education, core/professional courses, and FAED 4001.	4	EDPE 4348 - Student Teaching Practicum in the teaching of Biology at the secondary level Prerequisite: EDPE 4116 and 95% of the approved courses.	4
FAED 4002 - Professional Reflective Seminar II Requirement: Concurrent with EDPE 4116.	1	FAED 4003 - Professional Reflective Seminar III. Concurrent with EDPE 4348. Prerequisite: FAED 4001 and FAED 4002.	1
HIST ___** - Free elective en History of United States	3		
EDPE 4255 - Language Arts in the Secondary Curriculum Areas	3		
Art	3		
Total	14	Total	5

Total credits	126

Revised in 2023-2024 academic year

* Students will be evaluated in these courses based on their College Board achievement scores in Spanish and English.
Requirement: Teacher Certification by the Department of Education (Regulation 2012)
Based on the results of the College Board mathematics achievement test and the placement test administered by the College of Natural Sciences, students will be placed in the appropriate mathematics course. Before enrolling in MATH 3151, students may be required to complete MATH 3023, 3024, or 3018 (Precalculus), and/or MATH 3001, or both.

Students are also required to have and demonstrate some experience in scientific research through selected courses in the Natural Sciences. They should consult their academic advisor for guidance.

SECONDARY EDUCATION – SCIENCES

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
___ ___ - Logical-Mathematical Thinking (Calculus) Prerequisite: MATE 3023-3024 o 3018 (Precalculus).	4	HUMA ___ - Humanities I	3
		EDFU 3012 - Foundations of Educational Psychology	3
		FAED 4001 - Professional Reflective Seminar I Prerequisite: Concurrent with EDFU 3012.	1
Total	13	Total	16

Second year

First semester	Crs.	Second semester	Crs.
HUMA ___ - Humanities II	3	EDFU 3013 - Learning Evaluation	3
FISI 3011 - University Physics I FISI 3013 - University Physics I Laboratory o FISI 3001 - General Physics I FISI 3003 - General Physics I Laboratory Prerequisite: Calculus I	3 1	TEED 3018 - Integrating Instructional Technology and Computers into the Secondary-Level Curriculum	3
EDFU 4019 - Philosophical Foundations of Education	3	BIOL 3101 - General Biology I	4
QUIM 3001 - General Chemistry I Prerequisite: MATE 3023-3024 o MATE 3018 (Precalculus)	4	QUIM 3002 - General Chemistry II	4
CISO 3121 - Social Sciences I	3	EDES 4006 - Nature and Needs of Exceptional Learners	3
		Free elective	3
Total	17	Total	20

Third year

First semester	Crs.	Second semester	Crs.

HIST ___ - History of Puerto Rico	3	BIOL 3111 – Ecology Prerequisite: BIOL 3012, BIOL 3033, BIOL 3052, BIOL 3102, BIOL 3410 o BIOL 3425.	3
CISO 3122 - Social Sciences II	3	FISI 3012 - University Physics II FISI 3014 - University Physics II Laboratory or FISI 3002 - General Physics II FISI 3004 - General Physics II Laboratory Prerequisite: FISI 3011 or FISI 3001 and FISI 3013 or FISI 3003	3 1
BIOL 3410 - Plant Organismal Biology l or BIOL 3425 – Animal Organismal Biology l Prerequisite: BIOL 3101 and 3102.	4	EDFU 4007 -Research Principles Prerequisite: EDFU 3007.	3
EDFU 3007 - Social Foundations of Education Prerequisite: EDES 4006.	3	HIST ___** - Elective in History of United States	3
EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom	3	EDPE 4103 - Teaching STEM at the Secondary Level Prerequisite: Have completed at least 75% of the credits required in the major component, including the course TEED 3018.	3
Guided elective in Science	3		
Total	19	Total	16

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 4116 – Methodology to teach science in secondary science. Prerequisite: 85% of major courses approved with a grade of C or higher, including general education, core/professional courses FAED 4001.	4	EDPE 4345 - Student Teaching Practicum in the teaching of general science at secondary level. Prerequisite: EDPE 4116 and 95% of the approved courses.	4
FAED 4002 - Professional Reflective Seminar II Prerequisite: Concurrent with EDPE 4116	1	FAED 4003 - Professional Reflective Seminar III Prerequisite: Concurrent with EDPE 4345.	1
EDPE 4255 - Language arts within the curricular areas at the secondary level.	3	Literature	3
CINA o FISI (Earth Sciences)	3		

Literature	3		
Art	3		
Total	17	Total	8

Total credits	126

*Students will be placed in these courses based on their College Board achievement scores in Spanish and English.
**Requirements Teacher Certification from the Department of Education (Regulation 2022).

Based on the results obtained in the College Board mathematics achievement test and the mathematics placement test offered by the Faculty of Natural Sciences, the student will be placed in the appropriate mathematics course. Before enrolling in MATE 3151 (Calculus), the student may be required to take MATE 3023, 3024, or 3018 (Precalculus), and/or MATE 3001, or both. The student must consult their academic advisor.

SECONDARY EDUCATION – PHYSICS EDUCATION

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
EDFU 3011 - Human Development Foundations	3	HUMA ___ - Humanities II	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
HUMA ___ - Humanities I	3	CISO 3121 - Social Sciences I	3
Logical-Mathematical Thinking	3	EDFI 3675 - Health, life and well-being	3
Total	18	Total	18

Second year

First semester	Crs.	Second semester	Crs.
___ ___ - Literature	3	___ ___ - Literature	3
HIST 3241 o HIST 3242 - History of Puerto Rico	3	EDFI 3686 - Motor skills learning	3
EDFI 3555 – History and principles of physical education	3	TEED 3017 - Integration of technology and computer use in the elementary-level curriculum or TEED 3018 – Integration of technology and computer use in the secondary-level curriculum	3
EDFU 3007 - Social Foundations of Education	3	EDFU 3012 - Foundations of Educational Psychology. Prerequisite: EDFU 3011.	3
CISO 3122 - Social Sciences II	3	FAED 4001 - Professional Reflective Seminar I. Requirement: Concurrent with EDFU	1

		3012	
___ ___ - Art	3		
Total	18	Total	13

Third year

First semester	Crs.	Second semester	Crs.
EDFU 3013 - Evaluation and learning or EDFU 4045 - Evaluation of physical education Prerequisite EDFU 3011 and EDFU 3012.	3	EDFU 4007 -Research Principles	3
EDFI 4115 – Anatomy and Kinesiology	3	EDFI 3115 - Physical Education as a Teaching Tool for Grades K–3	3
EDFU 4019 - Philosophical Foundations of Education	3	EDFI 4125 - Administration and Supervision of Physical Education	3
EDES 4006 - Nature and Needs of Exceptional Learners o EDFI 3395 – Physical Education for the Exceptional Child	3	EDFI ___ – Fundamentals of Teaching***	3
Free elective	3	EDFI 4018 - Methodology for Teaching Physical Education at the Elementary Level Prerequisite: EDFI 3090/EDFI 3115	3
EDFI ___ - Fundamentals of Teaching ***	3	EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom Prerequisite: EDES 4006.	3
Total	18	Total	18

Fourth year

First semester	Crs.	Second semester	Crs.
EDFI 4105 - Exercise Physiology Prerequisite: EDFI 4115.	3	EDPE 4216 - Student Teaching Practicum in the teaching of physical education at the secondary school level	4
Free elective	3	FAED 4003 - Professional Reflective Seminar III Concurrent with EDPE 4216 Prerequisites: FAED 4001 and FAED 4002.	1
EDFI ___ - Foundations of the teaching of *** ***	3	HIST 3111 o HIST 3112 – Elective of History of United States	3
EDFI ___ - Foundations of the teaching of *** ***	3		

EDPE 4219 - Methodology for Teaching Secondary School Physical Education Prerequisite: 85% of major courses completed with a grade of C or higher, including core/professional and general education courses FAED 4001.	4		
FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4219.	1		
Total	17	Total	8

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.
**Certification Requirement for Teachers of the Department of Education (Regulations 2022)
*** Foundations of Sports Instruction

- EDFI 4001 – Foundations of Instruction in Aquatic Sports: Swimming, Games, and Water Activities
- EDFI 4002 – Foundations of Instruction in Individual Sports
- EDFI 4003 – Foundations of Instruction in Net Sports
- EDFI 4004 – Foundations of Instruction in Invasion Sports

Total credits	**128**

Revised March 2024

SECONDARY EDUCATION– SPANISH

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
CISO 3121 - Social Sciences I	3	CIFI ___	3
CIBI ___ - Biological Sciences	3	CISO 3122 - Social Sciences II	3
EDFU 3011 - Human Development Foundations	3	EDFU 3012 - Foundations of Educational Psychology	3
		FAED 4001 - Professional Reflective Seminar I Prerequisite: Concurrente EDFU 3012	1
		HIST 3241, 3242 o 3245 - History of Puerto Rico	3
Total	15	Total	19

Second year

First semester	Crs.	Second semester	Crs.

HUMA ___ - Humanities I	3	EDES 4006 - Nature and Needs of Exceptional Learners	3
ESPA 3293 or equivalence- Spainish Grammar (compendium)	3	ESPA 3013 or equivalence- Introduction to linguistics	3
___ ___ - Logical-Mathematical Thinking	3	TEED 3018 - Integrating Instructional Technology and Computers into the Secondary-Level Curriculum	3
ESPA 4231 – Puerto Rican Literature I	3	ESPA 4232 Puerto Rican Literature II	3
EDFU 3007 - Social Foundations of Education	3	EDFU 4019 - Philosophical Foundations of Education	3
Art	3	HUMA ___ - Humanities II	3
Total	18	Total	18

Third year

First semester	Crs.	Second semester	Crs.
EDFU 4007 -Research Principles	3	EDFU 3013 - Learning Evaluation Prerequisites: EDFU 3011 and EDFU 3012	3
HIST ___** - History of United States	3	ESPA 3212 -Introduction to Spanish Literature II (Requirement) Prerequisite: ESPA 3211	3
ESPA 3211 -Introduction to Spanish Literature I (Requirement)	3	EDPE 4230 - Reading and composition in the secondary level	3
Free elective	3	EDPE 4039 – The teaching of modernizador grammar	3
EDPE 3235 – The teaching of literary genres and thinking skills	3	ESPA 4222 - Literature Hispanoamericana II	3
ESPA 4221 - Literature Hispanoamericana I	3		
Total	18	Total	15

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 4150 - Methodology for Teaching Spanish in Secondary School	4	EDPE 4360 - Practice Teaching Spanish at the Secondary Level Prerequisite: EDPE 4150 and 95% approved courses	4
FAED 4002 - Professional Reflective Seminar II	1	FAED 4003 - Professional Reflective Seminar III Concurrent with EDPE 4360. Prerequisites: FAED 4001 and FAED 4002	1
Free elective	3		
EDES 4055** - Teaching Strategies for the Inclusion of Students with Special Needs in the Regular Classroom	3		

Free elective	3		
Total	14	Total	5

Total credits	122

Revised in 2023-2024 academic year

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.
** Certification Requirement for Teachers of the Department of Education (Regulations 2022)

SECONDARY EDUCATION – SOCIAL STUDIES/HISTORY

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Spanish	3	ESPA ___*	3
INGL ___* - English	3	INGL ___*	3
CISO 3121 - Social Sciences I	3	CISO 3122 - Social Sciences II	3
CIBI ___ - Biological Sciences	3	EDFU 3012 - Foundations of Educational Psychology Prerequisite: EDFU 3011.	3
EDFU 3011 - Human Development Foundations	3	FAED 4001 - Professional Reflective Seminar I Concurrent with EDFU 3012.	1
HUMA ___ - Humanities	3	CIFI ___ - Physical Sciences	3
Total	18	Total	16

Second year

First semester	Crs.	Second semester	Crs.
GEOG 3165 – Geography of Puerto Rico	3	HUMA ___ - Humanities	3
HIST 3241 - History of Puerto Rico	3	HIST 3242 - History of Puerto Rico II	3
___ ___ - Logical-Mathematical Thinking	3	HIST 3112 - History of United States II	3
HIST 3111 - History of United States	3	TEED 3018 - Integrating Instructional Technology and Computers into the Secondary-Level Curriculum	3
EDFU 3007 - Social Foundations of Education	3	EDFU 4019 - Philosophical Foundations of Education	3
EDFU 4007 -Research Principles	3		
Total	18	Total	15

Third year

First semester	Crs.	Second semester	Crs.
EDFU 3017 - Learning Evaluation Prerequisites: EDFU 3011 and EDFU 3012.	3	EDPE 4255 - Having completed at least 75% of the credits required in the	3

		specialty component, including the course	
Literature	3	EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom Prerequisite: EDES 4006	3
HIST 3165 - Renaissance, Reformation, and the Rise of the State or HIST 3255 – Europe in XIX century or HIST 3205 – Problems in the contemporary world	3	ECON 3005 – Introduction to economics	3
HIST 3211 - Hispanic american History I	3	HIST 3212 - Hispanic american History II	3
EDES 4006 - Nature and Needs of Exceptional Learners	3	Guided elective. Choose between: ANTR 3006 – Introduction to sociocultural anthropology or ANTR 3005 - Introduction to cultural anthropology or SOCI 3245 – Principles of sociology and history	3
Free elective	3	GEOG 3150 - Human Geography	3
Total	18	Total	18

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 4126 - Methodology for Teaching Social Sciences at the Secondary Level Prerequisite: 85% of the major courses passed with a grade of C or higher, and 85% of the core and general education courses; FAED 4001.	4	EDPE 4157 - Student Teaching Practicum in the Teaching of Social Studies at the Secondary School Level Prerequisite: EDPE 4126 and 95% approved courses.	4
FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4126	1	FAED 4003 - Professional Reflective Seminar III Concurrent with EDPE 4157.	1
CIPO 3011 - Principles and problems of political sciences	3	HIST 4225 - Theory of History	3
Art	3		
Literature	3		
Free elective	3		
Total	17	Total	8

Total credits	128

* Students will be placed on these courses based on their College Board achievement scores.

SECONDARY EDUCATION – MATHEMATICS

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
CISO 3121 - Introduction to Social Sciences I	3	MATE 3151 - Calculus I	4
MATE 3018** o Mate 3171 and Mate 3172 - Precalculus (Logical-Mathematical Thinking)	4	CISO 3122 - Introduction to Social Sciences II	3
HUMA ___ – Humanities I	3	EDFU 3012 - Foundations of the Psychology of Learning	3
		FAED 4001 - Professional Reflective Seminar I	1
Total	16	Total	17

Second year

First semester	Crs.	Second semester	Crs.
MATE 3019 - High School Geometry Prerequisite: MATE 3172 or 3018 (Precalculus).	3	EDPE 4258 - Teaching Discrete Mathematics at the Secondary Level Prerequisite: MATE 3151 (Calculus I)	3
____ ___ - Literature	3	____ ___ - Literature	3
EDFU 3007 - Social Foundations of Education	3	TEED 3018 - Integrating Instructional Technology and Computers into the Secondary-Level Curriculum	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
HUMA ___ - Humanities II	3	EDFU 3013 – Learning Evaluation Prerequisite: EDFU 3012	3
MATE 3026 - Introduction to Statistics with computers Prerequisite: MATE 3172 or 3018 (Precalculus).	3	Free elective	3
Total	18	Total	18

Third year

First semester	Crs.	Second semester	Crs.

EDFU 4019 - Philosophical Foundations of Education	3	EDPE 4259 - Teaching Algebra at the Secondary Level Prerequisites: MATE 4031 and EDPE 4258.	3
MATE 4031 - Linear Algebra Prerequisite: MATE 3151.	3	MATE ____*** - Guided elective in the mathematics major	3
MATE 4120 – History of mathematics	3	HIST ___ - History of Puerto Rico	3
EDES 4006 - Nature and Needs of Exceptional Learners	3	EDPE 4030 – Manipulatives and Technology in Secondary Mathematics Prerequisites: Mate 3151, Mate 4031, Mate 3019, Mate 3026, EDPE 4258 and EDPE 4259.	2
HIST ___ – Elective in History of United States	3	EDFU 4007 -Research Principles Prerequisite: EDFU 3007.	3
EDPE 4255 - Language arts within the curricular areas of the secondary level	3	EDPE 4103 - Teaching STEM at the Secondary Level	3
Total	18	Total	17

Fourth year

First semester	Crs.	Second semester	Crs.
MATE ___ - Guided elective in mathematics major	3	EDPE 4358 - Mathematics Teaching Practicum at the Secondary Level Prerequisites: EDPE 4128 and 95% approved courses.	4
EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom Prerequisite: EDES 4006.	3	FAED 4003 - Professional Reflective Seminar III Prerequisites: FAED 4001 and 4002. Concurrent with EDPE 4358.	1
EDPE 4128 - Methodology to teach Mathematics at the Secondary Level Prerequisites: 85% major courses approevd with a C or higher, core courses/profesional and general education.	4		
FAED 4002 - Professional Reflective Seminar II Prerequisite: FAED 4001	1		
ART	3		
Total	14	Total	5

Total credits	123

Revised in 2023-2024 academic year

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.

** Based on the results of the College Board mathematics achievement test and the mathematics placement test administered by the College of Natural Sciences, students will be placed in the appropriate mathematics course. Before enrolling in MATE 3018 (or MATE 3171 or MATE 3172), students may be required to take MATE 3001. This course does not count toward degree requirements.
*** Courses such as MATE 3001, 3016, 3131–3132, 3041–3042, or others with similar content or level of difficulty will not be accepted as major-directed electives.

"Students currently enrolled in the program will have the option to adopt the updated curriculum under a clear and uniformly applied policy. However, they remain governed by the curriculum in effect at the time of their admission."
(Letter from the Vice President for Academic Affairs, University of Puerto Rico, November 21, 2019)

SECONDARY EDUCATION – CHEMISTRY

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
CIBI ___ - Biological Sciences	3	HUMA ___ - Humanities I	3
___ ___ - Logical-Mathematical Thinking (Calculus) Prerequisite: MATE 3023-3024 o 3018 (Precalculus).	4	CISO 3121 - Social Sciences I	3
Free elective	3	CIFI ___ - Physical Sciences	3
		EDFU 3012 - Foundations of Educational Psychology	3
		FAED 4001 - Professional Reflective Seminar I Concurrent with EDFU 3012.	1
Total	16	Total	19

Second year

First semester	Crs.	Second semester	Crs.
HUMA ___ - Humanities II	3	TEED 3018 - Integration of Instructional Technology and Computers at the Secondary Level	3
EDFU 3007 - Social Foundations of Education	3	EDFU 4019 - Philosophical Foundations of Education	3
QUIM 3001 - General Chemistry I Prerequisite: MATE 3023-3024 o MATE 3018 (Precalculus).	4	BIOL 3101 - General Biology Prerequisite: QUIM 3001.	4
Literature	3	QUIM 3002 - General Chemistry II Prerequisite: QUIM 3001.	4
EDES 4006 - Nature and Needs of Exceptional Learners	3	Literature	3

CISO 3122 - Social Sciences II	3		
Total	19	Total	17

Third year

First semester	Crs.	Second semester	Crs.
EDFU 4007 -Research Principles Prerequisite: EDFU 3007	3	FISI 3011 - University Physics I and FISI 3013 - University Physics I Laboratory or FISI 3001 - General Physics I FISI 3003 - General Physics I Laboratory Prerequisite: MATE 3151 (Calculo).	3 1
HIST ___ - History of Puerto Rico	3	QUIM 3032 – Organic Chemistry II Prerequisite: QUIM 3031.	4
EDFU 3013 - Learning Evaluation Prerequisite: 3012.	3	QUIM 3255 - Chemical Analysis I Prerequisite: QUIM 3002.	4
EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom Prerequisite: EDES 4006.	3	EDPE 4103 - Teaching STEM at the Secondary Level Prerequisite: Having completed at least 75% of the credits required in the specialty component, including the course TEED 3018.	3
BIOL 3410 - Plant Organismal Biology l o BIOL 3425- Animal Organismal Biology I Prerequisite: BIOL 3101 and BIOL 3102.	4		
QUIM 3031 – Organic Chemistry I Prerequisite: QUIM 3001-3002.	4		
Total	20	Total	15

Fourth year

First semester	Crs.	Second semester	Crs.
EDPE 4116 - Methodology for Teaching Chemistry in Secondary Schools Prerequisite: 85% of the major courses passed with a grade of C or higher, and 85% of the general education and core courses, and FAED 4001.	4	EDPE 4346 - Practicum in Teaching Chemistry at the Secondary Level Prerequisite: EDPE 4116 and 95% of the approved courses.	4
FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4116	1	FAED 4003 - Professional Reflective Seminar III Concurrent with EDPE 4346. Prerequisites: FAED 4001 and FAED 4002.	1
EDPE 4255 - Language Arts in the Secondary Curriculum Areas	3	HIST ___ Elective in History of United States	3

FISI 3012- University Physics II and FISI 3014- University Physics II Laboratory FISI 3002- General Physics II FISI 3004- General Physics II Laboratory Prerequisite: FISI 3011c and FISI 3013	3 1		
Art	3		
Total	15	Total	8

Total credits	129

Revised in 2023-2024 academic year

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.
** Certification Requirement for Teachers of the Department of Education (Regulation 2022)

Based on the results of the College Board mathematics achievement test and the mathematics placement test administered by the College of Natural Sciences, students will be placed in the appropriate mathematics course. Before enrolling in MATE 3151, students may be required to take MATE 3023, MATE 3024, or MATE 3018 (Precalculus), or MATE 3001, or both. These courses do not count toward degree requirements.
Students are also required to have and document some experience in scientific research through selected courses in the Natural Sciences. They should consult with their academic advisor for guidance.

BACHELOR OF ARTS IN EDUCATION – TEACHING OF ENGLISH AS A SECOND LANGUAGE K-12

First year

First semester	Crs.	Second semester	Crs.
ESPA ___ * - Basic Spanish I	3	ESPA ___ * - Basic Spanish II	3
INGL ___ * - Basic English I	3	INGL ___ *- Basic English II	3
EDFU 3011 - Human Development Foundations	3	CISO 3121 - Introduction to the Social Sciences	3
CIBI ___ - Biological Sciences	3	CIFI ___ - Physical Sciences	3
HUMA ___ - Humanities I	3	HUMA ___ - Humanities II	3
EING 4006 –The Teaching of English to Spanish speakers	3	EDFU 3012 - Foundations of Educational Psychology Prerequisite: EDFU 3011	3
		FAED 4001 - Professional Reflective Seminar I Requirement: Concurrent with EDFU 3012	1
Total	18	Total	19

Second year

First semester	Crs.	Second semester	Crs.
TEED 3017 - Integration of technology and computer use in the elementary-level curriculum or TEED 3018 - Integration of Technology and Computer Use in the Secondary-Level Curriculum	3	EING 4045 – The teaching of English Composition as a second language (ESL) Prerequisite: EING 4006.	3
EDFU 3007 - Social Foundations of Education	3	EDFU 4019 - Philosophical Foundations of Education	3
INGL 3315 – The pronunciation of American English	3	EING 4019 - Teaching Reading and Writing to Students Learning English as a Second Language at the Elementary Level Prerequisites: EING 4006 and INGL 3315.	3
EING 4007 - Workshop on the Preparation and Evaluation of English Teaching Materials for Spanish-Speaking Students at the Elementary School Level	3	INGL ___ - Literature in English (level V or higher) Prerequisite: Guided elective in Literature	3
INGL ___ – A course in oral communication in English (level V or higher)	3	ART	3
CISO 3122 - Social Sciences II	3	Logical-Mathematical Thinking	3
Total	18	Total	18

Third year

First semester	Crs.	Second semester	Crs.
EDFU 4007 - Research Principles	3	EING 4047 – The teaching of English grammar K-12 Prerequisite: EING 4006.	3
INGL ___ – A course in written communication in English (level V or higher)	3	INGL 4206 – Modern English Grammar: the structure of the sentences and the clause INGL 4207 – Introduction to transformational grammar or INGL 4236 – Comparative analysis of the syntactical structures of English and Spanish	3
EDFU 3013 - Learning Evaluation Prerequisites: EDFU 3011 and EDFU 3012	3	EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom	3
EING 4016 - Literature for children Prerequisites: EING 4006 and EING 4019	3	EING 4005 - Literature for teenagers Prerequisites: EING 4006 and EING 4035.	3
EING 4035 – Teaching of reading in ESL – Secondary Level Nivel	3	Literature Ed. Gen.	3

Prerequisites: EING 4006 and EING 4019			
EDES 4006 - Nature and Needs of Exceptional Learners	3	Free elective	3
Total	18	Total	18

Fourth year

First semester	Crs.	Second semester	Crs.
HIST ___ - History of Puerto Rico	3	EDPE 4985 - Practicum in Teaching English as a Second Language (ESL) for Grades K–12 Prerequisites: EING 4010, 95% approved courses	4
Literature Ed. Gen.	3	FAED 4003 - Professional Reflective Seminar III Requirement: Concurrent with EING 4476 Prerequisites: FAED 4001 and FAED 4002.	1
EING 4476 – Methodology for teaching English K-12 Prerequisites: 85% of the major courses passed with a grade of C or higher, general education and core/professional courses, and FAED 4001.	4		
FAED 4002 - Professional Reflective Seminar II Requirement: Concurrent with EING 4476	1		
HIST ____* - History of United States	3		
Total	14	Total	5

Total credits	128

Revised in 2023-2024 academic year

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.
** Certification Requirement for Teachers of the Department of Education (Regulation 2022)

BACHELOR OF ARTS IN EDUCATION – ARTS

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3
INGL ___* - Basic English I	3	INGL ___* - Basic English II	3

CISO 3121 - Social Sciences I	3	HUMA ___ - Humanities II	3
CIBI ___ - Biological Sciences	3	CISO 3122 - Social Sciences II	3
HUMA ___ - Humanities I	3	CIFI ___ - Physical Sciences	3
EDFU 3011 - Human Development Foundations	3	EDFU 3012 - Foundations of Educational Psychology Prerequisite: EDFU 3011.	3
		FAED 4001 - Professional Reflective Seminar I Prerequisite: Concurrent with EDFU 3012.	1
Total	18	Total	19

Second year

First semester	Crs.	Second semester	Crs.
ART 3911 - Foundations of Visual Arts (Two-Dimensional)	3	EDPE 3038 - Design for art teachers	3
EDFU 4019 - Philosophical Foundations of Education	3	HIST ___ - History of Puerto Rico	3
ART 3401 – Painting I	3	EDFU 3013 - Learning Evaluation Prerequisite: EDFU 3011 and EDFU 3012	3
___ ___ - Logical-Mathematical Thinking	3	ART 3912 – Foundations of Visual Arts II (Three-dimensional) or ART 3913 - Foundations of Visual Arts III (Four-dimensional) Prerequisite - ART 3911.	3
ART	3	EDES 4006 - Nature and Needs of Exceptional Learners	3
		TEED 3018 - Integrating Instructional Technology and Computers into the Secondary-Level Curriculum	3
Total	15	Total	18

Third year

First semester	Crs.	Second semester	Crs.
EDFU 3007 - Social Foundations of Education	3	____ ___ - Literature	3
EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom Prerequisite: EDES 4006	3	EDPE 3046 - Art for Secondary-Level Teachers	3
HART 3118 - Art in Puerto Rico	3	EDPE 3045 - Art for Elementary-Level	3

		Teachers	
ART 3815 – Painting processes I	3	EDPE 4131 - Theory and Methodology of Art Education in Elementary School Prerequisite: 65% of the major courses passed with a grade of C or higher, core/professional courses, general education courses, and FAED 4001.	3
ART 3315 - Relief Printmaking Processes	3	FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4131	1
EDFU 4007 -Research Principles	3	ART 3615 – Sculpture process I	3
		HART 3191 - Western Art I	3
Total	18	Total	19

Fourth year

First semester	Crs.	Second semester	Crs.
ART 3325 - Intaglio Printmaking Processes	3	EDPE 4357 - Student Teaching Practicum Prerequisite: EDPE 4132 and 95% approved courses	4
Guided elective en Art	3	FAED 4003 - Professional Reflective Seminar III Concurrent with EDPE 4357. Prerequisites: FAED 4001 and FAED 4002.	1
HIST ___** - Electiva in History of United States	3	Free elective	3
EDPE 4132 – Theory and methodolgy of the teaching of Art at the high school level. Prerequisite: EDPE 4131 and 85% approved major courses with a C or higher, core courses, general educationl and FAED 4002.	3		
Literature	3		
Total	15	Total	8

Total credits	130

Revised in 2023-2024 academic year

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.
** Certification Requirement for Teachers of the Department of Education (Regulation 2022)

BACHELOR OF ARTS IN EDUCATION – MUSIC

First year

First semester	Crs.	Second semester	Crs.
ESPA ___	3	ESPA ___	3
INGL ___	3	INGL ___	3
CISO 3121 - Introduction to the Social Sciences	3	HUMA ___	3
CIBI ___	3	EDFU 3012 - Foundations of Educational Psychology	3
HUMA ___	3	FAED 4001 - Professional Reflective Seminar I	1
MUSI 3085 -Instrumental Technique I	1	CISO 3122- Introduction to Social Sciences II	3
EDFU 3011- Human Development Foundations	3	CIFI ___	3
		MUSI ___ -Instrumental Technique II	1
Total	19	Total	20

Second year

First semester	Crs.	Second semester	Crs.
TEED 3018 - Integrating Instructional Technology and Computers into the Secondary-Level Curriculum	3	Literature	3
Literature	3	MUSI 4132 -Instrumental Technique IV	1
MUSI 4131 -Instrumental Technique III	1	MUSI 4003 – Basic Piano II	1
		EDPE 4091 – Seminar I: Orchestra and Band Instruments	1
MUSI 3276 - Basic Piano I	1	EDPE 4092 – Seminar II: Ensembles (Rondalla and choir)	1
MUSI 4015 - La música en el Barroco and el Clasicismo	3	EDPE 4093 – Seminar III: New tendencies in music education	1
EDFU 3007 - Social Foundations of Education	3	EDFU 4007 -Research Principles	3
MUSI 3275 - Sight Reading and Dictation I	4	EDFU 4019 - Philosophical Foundations of Education	3
		MUSI 4061 - Sight Reading and Dictation II	4
Total	18	Total	18

Third year

First semester	Crs.	Second semester	Crs.
MUSI ___ - Instrumental Technique V	1	Music Instrumental Technique VI	1
MUSI 3115 - Diatonic Harmony	4	___ ___ - History of Puerto Rico	3

MUSI 4062 - Sight Reading and Dictation III	1	Student will choose from the following courses: MUSI 4177 - Instrumental Conducting and Score Reading MUSI 4175 - Choral Conducting and Vocal Repertoire	4
MUSI 4025 - Music in the Romantic and Impressionist Periods	3	EDPE 4151 - Curriculum and Methodology for Teaching Music in Elementary School	3
Logical-Mathematical Thinking	3	EDPE 4255 - Language arts within the curricular areas of the secondary level	3
EDFU 3017 - Learning Evaluation	3	FAED 4002 - Professional Reflective Seminar II	1
MUSI ___	1	EDES 4006 - Nature and Needs of Exceptional Learners	3
Total	16	Total	18

Fourth year

First semester	Crs.	Second semester	Crs.
Free elective	3	EDPE 4176 - Student Teaching Practicum in the teaching of music at the high school level	4
Free elective	3	FAED 4003 - Professional Reflective Seminar II	1
EDPE 4152 - Curriculum and Methodology for Teaching Music in Secondary School	3		
MUSI 3045 – Music and musicians from Puerto Rico	2		
Art	3		
History of United States	3		
Total	17	Total	5

Total credits	131

BACHELOR OF ARTS IN EDUCATION – PRESCHOOL

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Spanish	3	ESPA ___* - Spanish	3
INGL ___* - English	3	INGL ___* - English	3
CISO 3121 - Social Sciences I	3	CISO 3122 - Social Sciences II	3

CIBI 3005 - Biological Sciences for Elementary-Level Teachers, or Equivalent	3	CIFI 3005 or equivalent- Physical Sciences for Elementary-Level Teachers, or Equivalent	3
HUMA ___ - Humanities	3	HUMA ___ - Humanities	3
ECDO 3007 – Life Cycle of the human being	3	EDFU 3012 – Learning phsychology Prerequisite: ECDO 3007.	3
		FAED 4001 - Professional Reflective Seminar I Concurrent with EDFU 3012.	1
Total	18	Total	19

Second year

First semester	Crs.	Second semester	Crs.
___ ___ - Literature	3	___ ___ - Literature	3
HIST ___** - History of Puerto Rico	3	___ ___ - Logical-Mathematical Thinking	3
___ ___ - (TEAT 3005 – Art Children's Theater is recommended	3	EDFU 3007 - Social Foundations of Education	3
ECDO 3015 – Family relationships	3	EDPE 3145 - Music in Early Childhood and Preschool Education	3
EDPR 4125 - Child Growth and Development: Infants, Toddlers, and Preschoolers	3	TEED 3027** - Instructional Technology and Computer Use in Preschool Education	3
Free elective	3	EDES 3025** - Nature and Needs of the Preschool Child with Disabilities	3
Total	18	Total	18

Third year

First semester	Crs.	Second semester	Crs.
ECDO 4127 - Play in the Holistic Development of Infants, Toddlers, and Preschoolers Prerequisites: EDPR 4125, EDFU 3012, FAED 4001.	3	EDPR 4011 - Curriculum and Methodology in Preschool Education I Prerequisite: EDPR 4125, EDPR 4127, EDFU 3012 and having completed 65% of the major courses with a grade of C or higher, as well as core/professional and general education courses, and FAED 4001.	3
EDPE 3067 - Linguistic Development of the Preschool Child	3	EDPR 4255 - Working with Parents, Families, and the Community	3
EDFI 3090 - Physical Education for the Preschool Level	3	EDPR 4136 - Assessment in Early Childhood: Infants, Toddlers, and Preschoolers Prerequisite: EDPR 4125.	3
EDFU 3050 - Health and Safety in Early Childhood Education: Infants, Toddlers,	3	EDPE 4035 - Creative Expression in Early Childhood and Preschool	3

and Preschoolers			
EDES 3035** - Curriculum and Methodology for Teaching Preschool-Aged Children with Disabilities Prerequisite: EDES 3025.	3	EDPR 4137 - Understanding Emotions and Promoting Prosocial Behavior in Preschool Children Prerequisite: EDPR 4125.	3
EDFU 4019 - Philosophical Foundations of Education	3	EDFU 4007 -Research Principles	3
Total	18	Total	18

Fourth year

First semester	Crs.	Second semester	Crs.
EDPR 4126 - Organization and Administration of Infant, Toddler, and Preschool Programs Prerequisites: EDPR 4011, FAED 4001, FAED 4002	3	ECDO 4216 - Student Teaching Practicum in the preschool level Prerequisites: EDPR 4012 and 95% approved courses.	4
FAED 4002 - Professional Reflective Seminar II Concurrent with EDPR 4012.	1	FAED 4003 - Professional Reflective Seminar III Concurrent with EDPR 4216.	1
EDPR 4012 - Curriculum and Methodology at the Preschool Level (Part II) Prerequisite: EDPR 4011 and have completed 85% of the major coursework with a grade of C or higher, FAED 4002, and 85% of the core and general education courses	3		
Free elective	3		
Free elective	3		
HIST ___** - History of United States	3		
Total	16	Total	5

Total credits	130

Revisado año académico 2024-2025

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.
** ** Certification Requirement for Teachers of the Department of Education (Regulation 2022)

BACHELOR OF ARTS IN EDUCATION – RECREATION

First year

First semester	Crs.	Second semester	Crs.
ESPA ___**	3	ESPA ___*	3
INGL ___	3	INGL ___*	3
CISO 3121 - Introduction to the Social Sciences	3	CISO 3122 - Introduction to Social Sciences II	3
CIBI ___	3	EDFU 3011 – Human Development Foundations	3
Student will select from the following courses: RECR 3820 – Education for Leisure RECR 3685 – Introduction to recreation	3	EDFI 3675 - Life, health and well-being	3
Total	15	Total	15

Second year

First semester	Crs.	Second semester	Crs.
Literature	3	Literature	3
Logical-Mathematical Thinking	3	EDFU 3007 - Social Foundations of Education	3
HUMA ___	3	Free elective	3
Student will select from the following courses: CIFI ___ CIBI ___		HUMA ___	3
HIST ___ - History of Puerto Rico	3	RECR 3726 - Outdoor Recreation	3
Student will select from the following courses: RECR 4006 - Introduction to Therapeutic Recreation RECR 4055 - Sport in Recreation	3		
Total	15	Total	15

Third year

First semester	Crs.	Second semester	Crs.
Student will select from the following courses: EDFI 4045 - Evaluation in physical education RECR 4095 – Measurement and evaluation for research in recreation EDFU 3013 – Learning Evaluation	3	RECR 4142 - Administration in recreational programs II	3
RECR 4141 – Administration in recreational programs I	3	RECR 3695 – Leadership and teamwork	3
RECR 4156 – Seminar on Issues in Recreation, Leisure, and Free Time	3	ART	3

EDFI 4115 - Anatomy and Kinesiology	3	Student will select from the following courses: EDES 4006 - Nature and Needs of Exceptional Learners EDFI 3395 - Physical Education for the Exceptional Child	3
EDFU 4019 – Philosophical Foundations of Education	3	Free elective	3
Free elective	3		
Total	18	Total	15

Fourth year

First semester	Crs.	Second semester	Crs.
RECR 4145 - Organization of Recreational Services in Puerto Rico	3	RECR 4015 - Internship and Seminar in Recreation	9
Student will select from the following courses: EDFI 3556 - Introduction to the Application of Computers in Physical Education and Recreation TEED 3018 – Integration of Technology and Computers	3	Free elective	3
Free elective	3		
Free elective	3		
Total	12	Total	12

Total credits	120

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.

Directed Electives (18 Credits): Options to Choose From:

RECR 3005	RECR 3686	RECR 3715	RECR 4025
RECR 4045	RECR 4065	EDFI 3689	EDFI 4125
EDFI 4130	EDFI 4146	EDFI 4187	

BACHELOR OF ARTS IN EDUCATION – THEATRE

First year

First semester	Crs.	Second semester	Crs.
ESPA ___* - Basic Spanish I	3	ESPA ___* - Basic Spanish II	3

INGL ___* - Basic English I	3	INGL ___* - Basic English II	3
CISO 3121 - Social Sciences I	3	HUMA ___ - Humanities II	3
CIBI ___ - Biological Sciences	3	CISO 3122 - Social Sciences II	3
HUMA ___ - Humanities I	3	CIFI ___ - Physical Sciences	3
EDFU 3011 - Human Development Foundations	3	EDFU 3012 - Foundations of Educational Psychology Prerequisite: EDFU 3011	3
		FAED 4001 - Professional Reflective Seminar I Concurrent with EDFU 3012	1
Total	18	Total	19

Second year

First semester	Crs.	Second semester	Crs.
___ ___ - Literature	3	___ ___ - Literature	3
HIST ___ - History of Puerto Rico	3	TEED 3018 - Integration of Technology and Computer Use into the Curriculum at the Secondary or Elementary Level l	3
___ ___ - Art	3	TEAT 4111 - Dramatic activities	3
EDFU 3007 - Social Foundations of Education	3	TEAT 3102 - History of Theatre II Prerequisite: TEAT 3101	3
___ ___ - Logical-Mathematical Thinking	3	EDFU 4019 - Philosophical Foundations of Education	3
TEAT 3101 - History of Theatre I	3	TEAT 3005 – Theatre for children	3
Total	18	Total	18

Third year

First semester	Crs.	Second semester	Crs.
TEAT 3161 – Pantomime I	3	Student will select from the following courses: TEAT 3162 – Pantomime II TEAT 3012 – Acting II TEAT 3032 – Diction II Prerequisites: TEAT 3161, TEAT 3011, TEAT 3032	3
TEAT 3011 – Acting I	3	HIST ___ – Elective in History of United States	3
TEAT 3031 – Diction I	3	EDPE 3040 - Theatrical Techniques in Elementary School	3
EDFU 4007 -Research Principles	3	TEAT 3191 or equivalent** - Introduction to Theatrical Production I	3
EDFU 3013 - Learning Evaluation Prerequisites: EDFU 3011 and EDFU 3012	3	EDPE 4141 - Curriculum and Methodology for Teaching Theater in Elementary School Prerequisites: 65% of major courses passed with a grade of C or higher,	3

		core/professional and general education courses, FAED 4001, and FAED 4002.	
EDES 4006 - Nature and Needs of Exceptional Learners	3	FAED 4002 - Professional Reflective Seminar II Concurrent with EDPE 4141.	1
Total	18	Total	16

Fourth year

First semester	Crs.	Second semester	Crs.
Student will select from the following courses: TEAT 4211 - Stage Direction I TEAT 4221 - Stage Direction for teachers I	3	EDPE 4355 - Practicum in Teaching Theater at the Secondary Level Prerequisites: EDPE 4142 and 95% approved courses.	4
TEAT 3192 or equivalent** - Introduction to Theatrical Production II Prerequisite: TEAT 3191.	3	FAED 4003 - Professional Reflective Seminar III Concurrent with EDPE 4355. (Prerequisites: FAED 4001 and FAED 4002).	1
EDPE 4255 - Language arts within the curricular areas of the secondary level	3	Student will select from the following courses: TEAT 4212 – Stage Direction II TEAT 4222 - Stage Direction for teachers Prerequisites: TEAT 4211 and TEAT 4221.	3
EDPE 4142 - Curriculum and Methodology for Teaching Theater in Secondary School Prerequisites: EDPE 4141 and 85% major courses passed with a grade of C or higher, 85% of core/professional and general education courses, and FAED 4002.	3		
EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom Prerequisite: EDES 4006.	3		
Free elective	3		
Total	18	Total	8

Total credits	133

* Students will be placed in these courses based on their College Board achievement scores in Spanish and English.

The following courses are equivalent to TEAT 3191 and/or TEAT 3192:

- TEAT 4201 – Lighting I

- TEAT 4101 – Costume Design I
- TEAT 4131 – Set Design

TEACHING FACULTY AND ADMINISTRATIVE STAFF

Facuty Directory

Agosto Cepeda, Ariel; Ph.D., Michigan State University, 2009; Catedrático Auxiliar.
Álvarez Cabán, José M.; Ed.D., Phoenix University, 2000, Instructor.
Álvarez Romero, Claudia X.; Ph.D., University of Connecticut, 2006; Catedrática Asociada.
Amaral Figueroa, Marta; Ph.D., Louisiana State University, 1998; Catedrática.
Aponte Hernández, Eduardo; Ed.D., University of Massachusetts, 1978; Catedrático.
Aybar Soltero, Fernando J.; Ed.D., Temple University, 1998; Catedrático.
Betancourt Rosario, José; Ed.D., Universidad Interamericana de Puerto Rico, 2005; Catedrático.
Bonilla Rodríguez, Víctor E.; Ph.D., Loyola University of Chicago, 2002; Catedrático.
Capella Noya, Gladys R.; Ed.D., Harvard University, 1995; Catedrática.
Carrión Guzmán, Javier E.; Ed.D., University of Wisconsin, 1985; Catedrático.
Carro Nieves, Grace M.; Ed.D., Universidad Interamericana de Puerto Rico, 2010; Catedrática.
Carroll Miranda, Joseph; Ph.D., New Mexico State University, 2006; Catedrático Auxiliar.
Carroll, Kevin S.; University of Arizona, 2009; Catedrático.
Clark Mora, Linda; Ed.D., Universidad de Puerto Rico-Río Piedras, 2008; Catedrática Asociada.
Corchado Vargas, Agustín; M.A., Universidad del Sagrado Corazón, 1997; Catedrático.
Corujo Martínez, Germie; Ed.D., Universidad de Puerto Rico-Río Piedras, 2009; Catedrática Asociada.
Cruz Rosario, Liliana; MEd, New York University, 1990; Catedrática.
Cuevas de Jesús, Elizabeth; Ph.D., Universidad de Puerto Rico-Río Piedras, 2011; Catedrática Asociada.
Dávila Hernández, Gladys; Ed.D., Universidad Interamericana de Puerto Rico, 1996; Catedrática.
Díaz Cabrera, Ángel A.; M.A., Universidad del Turabo, 2003; Instructor.
Estrada Oliver, Luis, G.; Ed.D., Northcentral University, 2016; Catedrático Auxiliar.
Fernández García-Menocal, Rosy; Ph.D., Ann Arbor University, 1992; Catedrática Asociada.
Figueroa Fuentes, Wanda I.; Ed.D., University of Denver, 2003; Catedrática.
Figueroa Hernández, Ivonne; Ph.D., New York University, 1991; Catedrática Asociada.
Flores Manzano, María Socorro; M.A., Universidad de Puerto Rico-Río Piedras, 1988; Catedrática.
Fortis Rivera, Marta R.; Ed.D., Universidad de Puerto Rico-Río Piedras, 2003; Catedrática.
García Padilla, María del C.; Ed.D., Harvard University, 1993; Catedrática.
González Robles, Aura; Ed.D., University of Arizona, 2011; Catedrática Asociada.
Hernández Rodríguez, Omar A.; Ed.D., Universidad de Puerto Rico-Río Piedras, 2002; Catedrático.
López León, Ricardo; Ed.D., Universidad de Granada, 2011; Catedrático Asociado.
López Rivera, Luis A.; Ed.D., Universidad de Puerto Rico-Río Piedras, 1994; Catedrático.
López Serrano, Nancy; Ed.D., University of Wisconsin, 1985; Catedrática.
Maldonado Rodríguez, Jorge A.; Ed.D., Wayne State University, 1993; Catedrático.
Maldonado Vargas, Elena; Ed.D., Universidad de Puerto Rico-Río Piedras, 2003; Catedrática.

Martínez Colón, Lucía del R.; Ph.D., Florida State University, 1991; Catedrática.
Martínez Hernández, Edwin J.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2000; Catedrático Asociado.
Martínez Miranda, María S.; Ph.D., University of Wisconsin, 1991; Catedrática.
Martínez Ramos, Loida M.; Ed.D., University of Massachusetts-Amherst, 1993; Catedrática.
Maurás Modesti, Edwin; M.FA., New York University, 1976; Catedrático.
Medina Díaz, María Rosario; Ph.D., University of Wisconsin, 1982; Catedrática.
Meléndez Alicea, Juan José; Ed.D., Universidad Interamericana de Puerto Rico, 1998; Catedrático.
Meléndez Nieves, Anthony; Ed.D., University of North Carolina, 2011; Catedrático Asociado.
Mendoza Acevedo, Lillian; M.A., Universidad de Puerto Rico-Río Piedras, 1985; Catedrática Asociada.
Mendoza Bas, Mari Lourdes; M.Ed., Universidad de Puerto Rico-Río Piedras, 1987; Catedrática Auxiliar.
Miró Mejías, Ana G.; Ed.D., Universidad de Puerto Rico-Río Piedras, 1999; Catedrática.
Montañez García, Alicia; Ed.D., Universidad de Puerto Rico-Río Piedras, 2011; Catedrática Auxiliar.
Nieves Hernández, Mariel; Ed.D., Universidad Interamericana de Puerto Rico, 2008; Catedrática Asociada.
Ojeda Ayala, Rafael; Ed.D., Columbia University, 1979; Catedrático.
Ortiz Reyes, María de los A.; Ph.D., New York University, 1987; Catedrática.
Pacheco Sepúlveda, Carmen; Ed.D., Universidad Interamericana de Puerto Rico, 2011.
Padín Zamot, William; Ed.D., Universidad Interamericana de Puerto Rico, 2004; Catedrático.
Pandolfi de Rinaldis, Giuseppe; Ed.D., Nova University, Florida, 1976; Catedrático.
Pedraza Burgos, Lisandra; Ph.D., Ohio State University, 2006; Catedrática Auxiliar.
Pérez López, Sheila; Ph.D., Universidad de Puerto Rico-Río Piedras, 2015; Catedrática Auxiliar.
Portalatín Rivera, Nannette; Ph.D., Universidad de Puerto Rico-Río Piedras, 2009; Catedrática Auxiliar.
Pujols González, Carmen T.; M.A., Universidad de Puerto Rico-Río Piedras, 1992; Catedrática.
Quintero Rivera, Ileana María; Ed.D., Harvard University, 1996; Catedrática.
Ramírez Marrero, Farah; Ph.D., Ohio State University, 1997; Catedrática.
Ramos Cortés, Gabriel; Ed.D., Universidad de Puerto Rico-Río Piedras, 1994; Catedrático.
Ramos Ortiz, Nicolás; M.A./J.D., Universidad de Puerto Rico-Río Piedras, 2009; ___ _____.
Rivera Morales, Mercedes; Ph.D., Universidad Carlos Albizu, 2005; ___ _____.
Rivera Rivera, Edwin; Ed.D., Universidad Interamericana de Puerto Rico, 2005; Catedrático Asociado.
Rodríguez Torres, Julio E.; Ed.D., Rutgers University, 1986; Catedrático.
Román Spicer, Richard; Ed.D., Universidad de Puerto Rico-Río Piedras, 2009; Catedrático Asociado.
Rosado Almedina, María G.; Ph.D., Centro de Estudios Avanzados de Puerto Rico and el Caribe, 1993; Catedrática.
Sáez Vega, Ruth J.; Ph.D., University of Arizona, 1996; Catedrática.
Sánchez Cabrera, Lourdes; M.A., Pennsylvania State University, 1987; Catedrática Asociada.
Santiago Díaz, Laura; Ed.D., Universidad del Turabo, 2010; Catedrática.
Santiago Villafañe, Rose M.; Ph.D., Universidad de Murcia, 2005; Catedrática Asociada.
Seale Collazo, James; Ed.D., Harvard University, 2006; Catedrático Asociado.
Segarra Vázquez, Maniliz; M.A., Universidad Interamericana de Puerto Rico, 1999; Catedrática

Asociada.
Snow Noguera, Josephine A.; Ph.D., Temple University, 1991; Catedrática.
Solís Jordán, José; Ph.D., University of Illinois-Champaign, 1991; Catedrático.
Soto Sonera, José; Ed.D., Universidad de Puerto Rico-Río Piedras, 2006; Catedrático Asociado.
Suárez Silverio, Eduardo J.; Ph.D., New York University, 1984; Catedrático.
Tomita Nashi, Hiromi; M.A., University of Varsovia, Polonia, 2001; Catedrático Auxiliar.
Torrado Pérez, Nellie E.; Ed.D., Universidad de Puerto Rico-Río Piedras, 2000; Catedrática.
Torrech San Inocencio, Lucy A.; Ed.D., Universidad Interamericana de Puerto Rico, 2008; Catedrática Auxiliar.
Torres Burgos, Consuelo; MEd, Harvard University, 1986.
Torres Otero, Elizabeth; Ed.D., Universidad de Puerto Rico-Río Piedras, 1997; Catedrática.
Torres Roig, Ivette M.; Ed.D., Universidad de Puerto Rico-Río Piedras, 2009; Catedrática Asociada.
Vega Milán, Edwin; Ed.D., Universidad de Puerto Rico-Río Piedras, 2008; Catedrático Asociado.
Velázquez Rivera, Lizzette M.; Ed.D., Universidad de Puerto Rico-Río Piedras, 2001; Catedrática.
Verdejo Carrión, Ada Lucia; Ed.D., Universidad Interamericana de Puerto Rico, 1991; Catedrática.
Vicente Cernuda, José C.; Ph.D., Florida State University, 1997; Catedrático.
Villafañe Cepeda, Wanda; Ed.D., Universidad de Puerto Rico-Río Piedras, 2001; Catedrática.
Yudkin Suliveres, Anita L.; Ph.D., University of Michigan, 1993; Catedrática.
Zambrana Ortiz, Nellie J.; Ph.D., Temple University, 1992; Catedrática.
Zorrilla Lassus, María del C; Ed.D., Universidad de Puerto Rico-Río Piedras, 1997; Catedrática.

EDUCATION COURSES

ECDO 3005 - Child Growth and Development
Three credits. Three hours of discussion a week.
It encompasses the study of the development and growth of the child during the prenatal stage, infancy, preschool, school, and some aspects of the adolescent years. Emphasis is placed on the influence of the family on the integral development of the child and its implications in the guidance and care of the child. Studies related to the Puerto Rican child are analyzed. Observations of children are required.

ECDO 3006 - Vision and Challenges of Professionals in the Field of Family and Consumer Sciences
Three credits. Three hours of lecture a week.
It promotes personal reflection regarding their role as a professional in family and consumer sciences, new trends in the profession, research in this field, emphasizing the use of the computer and new technological tools for the planning, development and creation of effective educational presentations.

ECDO 3007 - Human Life Cycle
Three credits. Three hours of lecture a week. Prerequisite: Director's permission.

Comprehensive study of the characteristics of the human being and its needs throughout the life cycle, from the prenatal period to late adulthood and finally to the process of death. The different theoretical variants in which the development of the human being and the influences that the environment exerts on it are described are investigated. Comparative analysis of physical, cognitive,
social and emotional development from an educational and sociocultural perspective. The role of the Puerto Rican family and the influence of other environments on the growth, development and well- being

of the individual are analyzed.

ECDO 3015 - Family Relations
Three credits. Three hours of lecture a week.
Introductory course to the study of the family. It offers the student the opportunity to formulate and evaluate personal attitudes and concepts in relation to the family. It stimulates the presentation and discussion of theories and practices of family life with special attention to the impact of internal factors (personal and intra-family) and external factors (interrelations with society), as they manifest themselves in our society. The course includes, but is not limited to, the following topics: the family, family roles, pre-marriage planning, adjustments, conflict and crisis solutions, parenthood, law and the family, and the future of the family as an institution. **ECDO 3025 - Housing: Space Plans and Home Furnishings**
Three credits. Two hours of discussion and a two-hour lab a week.
Introductory course in space planning and furniture. It includes planning the space inside the home to meet the needs of the family; the study and application of design elements and principles and the selection, construction, use and care of home furnishings.

ECDO 3026 - Clothing Construction & Creative Projects
Three credits. Two hours of discussion and three hours of lab time per week.
Study, applications and development of basic sewing techniques, use of the commercial pattern in the construction of garment pieces, design and creation for the embellishment of textile products. This course is aimed at undergraduate students at the school of family ecology who will be future educators. It is carried out through conferences and a laboratory. This course will inactivate ECDO 4002.
ECDO 3035 - Housing: Consumer Issues
Three credits. Two hours of discussion and a two-hour lab a week.
Basic information about Puerto Rico as a frame of reference for housing problems. Social and economic changes on the island and their implications for housing. Analysis and description of the magnitude of the housing problem in Puerto Rico and detailed study of the public and private institutions that contribute to solving it. Consumer education in terms of home purchasing, laws, codes, regulations, and financing. Each student is required to submit a research paper related to one of the housing issues.
ECDO 3045 - Textiles and Consumer Issues
Three credits. Two hours of discussion and a three-hour lab a week.
Study of the latest developments in the textile field with emphasis on fibers; New techniques in the formation of fabric structures and finishes and their implications for the consumer.
Laboratory work: includes physical and chemical testing of fabrics with emphasis on the current situation of the textile industry in Puerto Rico.
ECDO 3046 - Clothing & Textiles: Selection & Purchase
Three credits. Two hours of discussion and three hours of lab per week.
It includes the study of the socio-cultural aspects that are included in the selection and purchase of clothing. The elements to be considered in the selection, purchase and care of clothing and textile products are evaluated. The student will prepare a sample of basic sewing techniques used in the care and maintenance of garments.
ECDO 3055 - Clothing and its psychological, cultural and socio-economic implications on consumer behaviour *Three credits. Three hours of discussion a week.*
Introduction to the study of psychological, cultural aspects; socioeconomic and artistic aspects of clothing and their implications on consumer behavior. Fundamentals in the selection, purchase and care of clothes. Experiences in some sewing techniques, to achieve a higher performance of the clothes made or bought. Independent study related to the course.
ECDO 3065 - Study Trip to New York: Manufacturing, Marketing of Clothing, Textiles and Related Industries
Three credits. Ten hours of lecture followed by an excursion. Prerequisite: after consultation with the

professor.
Educational excursion to New York City to learn about the different processes, phases of manufacturing and marketing of clothing, textiles and related products. Educational visits to textile industries, institutes, factories, design centers and museums. It includes a series of lectures and discussions related to the topic, prior to the educational excursion.
ECDO 3075 - Child Nutrition
Three credits. Two hours of lecture per week and two hours of laboratory per week. Prerequisite: Director's permission.
Basic concepts of nutrition with special attention to the child up to the age of twelve. Emphasis on developing eating habits.
ECDO 3095 - Basic Clothing Making Techniques
Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: For students with little or no experience in the area of sewing and who do not take the class as a requirement
It includes the study and analysis of the commercial pattern, applying its use in the creation of clothing pieces, in order of complexity. During the construction of such projects, basic sewing techniques and principles will be discussed, analyzed, and used.
ECDO 3096 - Basic Clothing Making Techniques II
Three credits. Two hours of lecture and two hours of workshop per week. Prerequisite: ECDO 3095; It will be available to students in the university system who do not pursue a major in home economics.
It allows the student to expand the knowledge and experiences acquired in sewing. It includes the modifications of the trading pattern in the creation of new designs. During the construction of these projects, special sewing techniques will be analysed and used according to the design and textile fabrics used.
ECDO 4001 - Basic Principles of Sewing
Three credits. Two hours of discussion and a three-hour lab a week. Prerequisite: ECDO 3045. The course includes the study and application of basic sewing techniques based on the principles and procedures of programmed teaching, the use of a commercial pattern, and the skills involved in basic fitting. The student applies the techniques learned by sewing a simple piece of clothing and preparing illustrative educational material.
ECDO 4002 - Advanced Sewing
Three credits. Two hours of discussion and a three-hour lab a week. Prerequisite: ECDO 4001. Analysis and application of design principles in the selection of appropriate clothing and accessories for the individual. The use and notching of more sophisticated line business patterns is emphasized. It includes the latest developments in sewing techniques and independent study related to the course is required.

ECDO 4011 - Curriculum and Methodology at the Preschool Level (Part I)
Three credits. Three hours of lecture and three hours of labs a week. Prerequisites: EDFU 3002, ECDO 4125, EDES 3025, FAED 4001 and have passed 50% of the major courses.
Corequisites: FAED 4002 Reflective Seminar II.
Study, analysis and application of the basic principles and approaches for the design and development of a curriculum for infants and nursery schools. Comparison of various programs, approaches, and curricular trends. 30 hours of field and pre-internship experience are required in centers that provide educational services to infants and nursery schools.
ECDO 4012 - Curriculum and Methodology at the Preschool Level (Part II)
Three credits. Three lecture hours and three lab hours a week. Prerequisites: ECDO 4011, FAED 4002 and have passed 75% of the courses of the major.
Study, analysis and application of the basic principles for the design and development of an integrative curriculum that is appropriate for preschool children. The various approaches, models, and curricular trends at the preschool level that predominate in Puerto Rico are compared
and in other countries. 30 hours of field and pre-practice experiences are required in UPR and community

preschools that provide appropriate educational services for children
y preschool girls.
ECDO 4015 - Pattern making
Three credits. One hour of discussion and a three-hour lab a week. Prerequisite: ECDO 4002.
The course is designed for the study, analysis and transformations of the basic trading pattern. You will develop designs based on changes in lines, pleats, collars, sleeves and skirts. A piece of clothing will be made based on one of the designs.
ECDO 4016 - Infant and Maternal Curriculum
Three credits. Three hours of lecture a week. Prerequisites: ECDO 4125 y EDFU 3002. Study, analysis and application of the basic principles for the design, development and implementation of a curriculum for infants and nursery schools (n-3 years old). Study of the different curricular approaches. The theory will be complemented with professional and field experiences in centers where infants and nursery schools are cared for.
ECDO 4025 - Interior Design and Decoration
Three credits. Two hours of discussion and two hours of lab time per week. Prerequisite: ECDO 3025.
Development of knowledge and skills in interior design and decoration through the analysis, synthesis and evaluation of related problems. It includes the design of plans, projection of color harmonies, the selection of materials, furniture and accessories, taking into account their function,
character and purpose. It also includes the calculation of expenses, materials, labor and the study of the basic principles of skills in arts and crafts related to interior design and decoration.

ECDO 4032 - Menu Planning and Food Service
Three credits. Two hours of discussion and a three-hour lab a week. Prerequisite: ECDO 4031.
Theory and technique of designing, preparing, and serving well-balanced family meals. Emphasis on decision-making and efficient use of time, energy, and money in the food handling process. The cultural and psychological aspects of food are considered, as well as new trends and recent research in the food industry.
ECDO 4035 - Planning, Preparing and Serving Family Meals for Diverse Populations
Three credits. Two hours of lecture and three hours of lab per week.
It presents a philosophical model for planning, preparing, and serving family meals. It includes the principles of decision-making and planning as core elements of the process. Emphasis is placed on the selection of nutritious foods, the efficient use of money, and the conservation of time and energy to respond to the needs of individuals and the demands of emerging lifestyles. It considers psychological aspects, multicultural eating patterns, populations with special needs, and new trends in recent research in the food industry.

ECDO 4041 Introduction to nutrition
Three credits. two hours of discussion and two hours of laboratory work per week. Prerequisites: BIOL 3711-3712, CHEM 3011.

Fundamental knowledge of dietary essentials and their body requirements. Special emphasis on food composition and factors involved in the selection and planning of diets to meet these needs for all age groups according to income level. Puerto Rican nutritional problems are discussed.

ECDO 4042 - Basic Principles of Nutrition
Three credits. Two hours of discussion and a two-hour lab a week.
The course is designed for non-home economics students who need a foundation in nutrition to work, whether they are teachers, nurses, physical education students, and others. Understands fundamental knowledge of essential diets. Special emphasis on food composition and factors involved in the planning and selection of diets to meet the needs of different age groups and special conditions.

ECDO 4045 Applied Human Nutrition
One credit. Two hours of workshop or laboratory work per week. Prerequisites: BIOL 3711-3712, CHEM 3001 (or its equivalent). Concurrently with HOEC 4041.

Practice and applications of techniques and methods used in human nutrition.

ECDO 4055 Food Purchasing for Institutions
Two credits. One hour of discussion and two hours of workshop per week. Includes fieldtrips to food service institutions, markets and the food industry.
Prerequisites: HOEC 4031; 4086.

Policies and procedures for the purchasing, receiving, storing/inventorying and issuing of foods for institutional use. Includes fieldtrips to food service institutions, markets and the food industry.

ECDO 4075 Institution Organization and Management
Three credits. Two hours of discussion and two hours of laboratory work per week.
Prerequisite: HOEC 4031.

Problems of institution organization and personnel management.

ECDO 4088 - Theory and Use of Microwaves in Food Preparation

Three credits. Three hours of lecture a week. Prerequisite: ECDO 4031 and ECDO 4042 or director's permission.
Theory and practice of microwave food preparation methods and techniques. Laboratory experiences in food preparation, considering the chemical composition of food. Basics of nutrition, food, and menu planning.
ECDO 4095 - Organization and Methodology in Family and Community Education
Three credits. Two hours of discussion and a two-hour lab a week.
Prerequisites: EDFU 3012 and ECDO EC3007, 3015, 4255, 3046, 4042 or
ECDO 4035. Corequisites: ECDO 4115 and 4185.
It includes the philosophy, objectives, and laws that govern the agricultural extension service and other public or private agencies or institutions with educational service programs for families and the community. It relates the student to educational programs for youth, adults, leaders, volunteers, and community development. It involves basic theories about methodology and teaching techniques. In addition to the evolution of each of the educational processes and methods focused on family and consumer sciences.

ECDO 4105 - Personal Finance
Three credits. Three hours of discussion a week. Prerequisite: Director' permission.

Personal and family finance planning. The values of the individual and their family will be analyzed in relation to income, expenses, savings, investments, credits, retirement plans, taxes, insurance, and wills.
ECDO 4115 - Independent Living Techniques for Diverse Populations in Family and Consumer Sciences
Three credits. Three hours of discussion a week.
Practical techniques in family and consumer sciences that contribute to the development of independent living skills in diverse populations. Assistive equipment alternatives and modifications for daily living activities are explored.

ECDO 4122 - Supervised Practice in Nursery School
Three credits. One hour of discussion and two three-hour labs a week. Prerequisite: ECDO 4121.
The internship is offered in pre-selected public or private nursery schools. Experience in the administrative and educational aspects of the nursery school program is required. All activities are coordinated with the school supervisor and the supervising teacher. Self-assessment is emphasized.
ECDO 4125 - Child Growth and Development: Infants, Nursery and Preschoolers
Three credits. Three hours of lecture a week. Prerequisite: Professor's permission.
A global vision of early childhood development (infant, nursery and preschool) which frames the dimensions of childhood development within an ecological conceptual framework. The theoretical postulates that support the integral development of childhood are considered, including general characteristics of motor, cognitive, language, social, emotional and daily life development. Emphasis is placed on the creation of simple developmental tools that will be used in childhood observation experiences. Play activities will be designed to promote the optimal development of children.
ECDO 4126 - Organization and Administration of Infant, Nursery and Preschool Programs
Three credits. Three hours of lecture a week. Prerequisite: ECDO 4016.
Study of the principles of organization, implementation and administration of infant, nursery and preschool centers. Analysis of the historical background of early education; of programmatic paradigms and trends of appropriate models for the planning and establishment of infant, nursery and preschool programs. The theory will be enriched with practical experiences of active integration in various scenarios at the infant, maternal or preschool level.
ECDO 4127 - Play in the Integral Development of Infants, Nursery and Preschoolers
Three credits. Three hours of lecture a week. Prerequisite: ECDO 3005 or director's permission.
Study of the importance of play in its various manifestations, considering it as a means of creative expression of childhood that contributes to the cognitive, social, emotional and physical development of infants, nursery and preschoolers. Emphasis on the role of the teacher in encouraging constructive play in the child and in planning the various types of play. Clinical experiences in educational settings are required to relate the student to the diversity of games and to the organization of the environment to play.
ECDO 4128 - Curriculum at the Preschool Level (3-5 Years) Three credits. Two hours of lecture and three hours of workshop per week. Prerequisite: ECDO 4016.
Study, analysis and application of the basic principles and approaches for the design, development and implementation of a curriculum for preschoolers. The theory will be complemented with professional and practical experiences in the centers where they are attended.

ECDO 4135 - Introduction to Gerontology
Three credits. Three hours of lecture a week.
The study of the physical, mental and social development of the human being during old age, starting from the stage of the middle years. Analysis of the changes and adjustments that occur and their implications. Special emphasis on practical attention to the basic needs of the elderly. Educational experiences in government and/or private institutions that provide services to the elderly.
ECDO 4136 - Early Childhood Assessment: Infants, Nursery and Preschoolers
Three credits. Three hours of lecture a week. Prerequisite: ECDO 4125.
Study of the principles, foundations, methodology and interpretation of the evaluation processes of growth, integral development and learning of early childhood (infants, nursery and preschool). The means of observation and continuous evaluation will be examined, considering the implications in the educational processes and in the optimal integral development of each child. Clinical experiences in preschool settings coordinated by the course teacher are required.

ECDO 4137 - Knowing the Emotions and Promoting the Preschooler's Prosocial Behavior
Three credits. Three hours of lecture a week. Prerequisites: ECDO 4125.
This course examines the theoretical frameworks that underpin a child's emotional development from a humanistic, ecological, and constructivist perspective. Effective means to promote the prosocial behavior

of the child during the educational processes of the daily routine that promote the emotional, social, cognitive and physical development of children are presented. It highlights the use of strategies that facilitate the management of emotions in childhood, which can be incorporated into the preschool curriculum.

ECDO 4145 Home Food Production
Three credits. Two hours of discussion and three hours of laboratory work per week. Prerequisite: HOEC 4041.

This course has been designed with the purpose of offering home economics students all the needed knowledge and techniques related to developing a home food production program. The course includes raising a home vegetable garden, olericulture, fruit cultivation and the raising of animals such as rabbits, goats and poultry. Nutritional emphasis is given on this course according to our needs.

ECDO 4146 - Sustainable Consumption in the Family and Society
Three credits. Two hours of lecture and 3 hours of laboratory per week.
The student will analyze the different consumption modalities of individuals, families and society. It will develop research projects on sustainable consumption in the areas of environmentally friendly purchasing, organic gardens, recycling or composting. As part of the learning process, field visits will be made to places that are of ecological interest and reflect the consequences of unsustainable consumption. It is expected that at the end of the course the student will be able to apply the concept of sustainable development to their area of study and thus demonstrate the development of their competencies for the implementation of projects on sustainable consumption.
ECDO 4148 - Method for Teaching Family Science in Secondary School
Four credits. Four hours of seminar per week. Prerequisites: EDFU 3001 or EDFU 3011 EDFU 3002 or EDFU 3012, 3007, 3017, 4019, FAED 4001, EDES 4006 and 75% of major courses with a minimum grade of c. Correquisite: FAED 4002.
Analysis of instruction in the areas of specialty in the light of the prevailing philosophy and curriculum in our Puerto Rican reality; Relationship and comprehension of professional documents of the teacher in the field of family and consumer sciences. It focuses on the design of teaching planning in the field of family and consumer sciences. I am a student
and application of teaching, assessment, assessment strategies and principles of action research. 30 hours of clinical experience are required in line with the objectives of the course.

ECDO4155 HOMSTEAD BEAUTYFICATION

ECDO 4185 - Administration of Family Resources
Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: ECDO 3007, 3015, 3035, and 4035 or 4042.
The basic aspects of the management of family resources and their application in home life or other environments are studied using systems theory. Emphasis is placed on the problems faced by the family in using human and non-human resources to achieve goals. It encourages the application and integration of administrative principles into the decision-making process in various family situations.
ECDO 4205 - Supervised Practice in Family and Community Education
Five credits. 4 hours of seminar and weekly hours. Prerequisite: ECDO4095 And ECDO4235. It includes, but is not limited to, observations and supervised practice in family and community work in the agricultural extension service and other agencies with educational programs or services under the philosophy of the family and consumer science profession. It also involves educational activities with youth, adults, and community leaders. In addition to other experiences in tune with the agency's philosophy and practice requirements. Problems and situations related to fieldwork and possible solutions to them are discussed.

ECDO 4215 - Life Cycle Nutrition Seminar
Three credits. Three hours of discussion a week. Prerequisite: Professor’s permission.

Study and analysis of the recent literature related to nutrition during the different stages of the life cycle. Emphasis will be placed on biochemical and physiological, psychological and social aspects y the application of this knowledge to real-life situations.

ECDO 4216 - Teaching Practice at the Preschool Level
Six credits. Three hours of lecture and seventeen hours of laboratory per week. Prerequisites: having passed the major courses, academic evaluation and authorization from the teacher.
Experience of teaching practice in public or private preschool education centers. Student- teachers will put into practice the knowledge and techniques for the comprehensive planning and evaluation of educational processes. 20 hours per week of direct and interactive educational work with infants, nursery or preschoolers are required.

ECDO 4235 - Field Experience with Family and Community
Four credits. Three hours of lecture and 6 hours of field experience per week. Prerequisite: ECDO4095.
This course offers the student a variety of experiences in their area of interest within the professional field of family and consumer sciences. It includes observation and participation in activities carried out by public and private institutions at the service of the family and the community in rural and urban areas. The professor's permission will be requested during the previous semester or on the date of the course. The student will pay for travel and subsistence expenses.
ECDO 4255 - Working with Parents, Families, and Communities
Three credits. Three hours of lecture a week.
Study of the importance and effective means for the integration of parents, family, school and community in the integral educational development of the learner. Strategies are presented to promote the collaboration and integration of community families at the preschool, primary, and elementary levels. Analysis and use of data related to the interests and needs of contemporary families, as well as the services and resources available to them in the community. The historical, sociocultural and legal processes and factors that impact children and their families in the social context are considered.

ECDO 4995 - Independent Study in Home Economics
One to three credits. Prerequisite: be a 4th year student; Professor’s permission.

The course is designed for the purpose of offering the undergraduate student the opportunity to undertake independent work to deepen an area of home economics of special interest to him. The work to be carried out can be experimental or research. The preparation of a monograph or dissertation will be required.
ECDO 5006 - Curriculum and Methodology for Teaching Home Economics to the Exceptional Student
Three credits. Three hours of lecture a week. Prerequisite: EDES 4006, EDPE 4005, and EDPE 4006 or equivalent.
Design and adaptation of the home economics curriculum to meet the needs of the exceptional student. Preparation and use of the individualized education plan. Selection and use of appropriate techniques and methods for the teaching of these students. Study of alternatives for the organization of programs.
ECDO 5009 - The nature of the adult and its implications in the teaching-learning process
Three credits. Three hours of lecture a week. Prerequisite: ECDO 3005, ECDO 3015 or teacher's permission.
Study and analysis of the nature of the human being during the period of adulthood and its implications in the teaching-learning process. Especially important in family education programs.
ECDO 5015 - Methodology of Teaching Occupational Home Economics
Three credits. Two hours of lecture and three hours of workshop per week. Prerequisite (one of the

following courses or equivalent): ECDO 4121, 4171, EDPE 4005.
The philosophy, curriculum, selection, and use of teaching strategies in the field of occupational education will be discussed with emphasis on the areas of home economics. Study of the organization and implementation of occupational programs and the legislation that provides for their development. It includes laboratory experiences in public schools, industry, and commerce.

ECDO 5017 - Theory and Methodology of Adult Education in Home Economics
Three credits. Three hours of lecture a week. Prerequisite: EDFU 3001, 3002, ECDO 3005, 3015 or professor's permission.
Critical examination of theories, methodology, and strategies for adult education in home economics. It includes clinical experiences in adult education programs.

ECDO 5996 - Seminar on Special Topics in the Area of Clothing and Textiles
One to three credits. Lecture and workshop hours will vary according to the number of credits. This course can be repeated up to a maximum of four times as the topics vary. Prerequisite: ECDO 4001, ECDO 4002 or professor's permission.
Special topics in clothing and textiles. Special importance will be given to new developments in materials, equipment, techniques, purchasing and handling of textile products.

EDES 3002 - Laboratory and Field Experiences for Elementary Education Students.
One to two credits.
Education students will begin a sequence of clinical and laboratory experiences to become familiar with the school system and community, as well as teaching and other curricular tasks. In this first phase, they will attend schools of different levels with different socioeconomic characteristics. They will participate first as observers and then as teacher's aides. They will be exposed to the teaching profession through seminars, conferences, and films.

EDES 3006 Diagnosis and Correction of Deficiencies in Reading and Writing
Two credits. Two hours of conference and two of laboratory work per week.
Prerequisites: EDPT 3031-3032

Study of the difficulties in reading and writing in elementary school with emphasis in diagnosis and correction of such difficulties. Discussion of tests and techniques for diagnosis. Field experience required.

EDES 3008 - New Approaches in the Visual Arts
Three credits. Three hours of lecture and two hours of laboratory time per week.
The course will be structured through a series of activities that provide new experiences in the perception and integration of the visual arts, as well as their application to teaching and human development. Work will be carried out in the workshop, using new materials, new techniques and new forms of plastic expressiveness will be analysed. In addition, galleries, studios, museums and plastic factories will be visited and lectures illustrated with films or slides will be organized.

EDES 3010 - Diagnosis and Assessment of Early Childhood Children with Disabilities

Three credits. Three hours of discussion a week.
Study and analysis of the factors, methods and instruments involved in the process of assessment and diagnosis of children with disabilities at an early age. Emphasis on the selection, development, evaluation and implementation of this process. It requires field experience.

EDES 3015 - Laboratory and Field Experiences for High School Education Students
Two to three credits.

Education students will begin a sequence of clinical and laboratory experiences to become familiar with the school system and community, as well as teaching and other curricular tasks. In this first phase, they will attend schools of different levels with different socioeconomic characteristics. They will participate first as observers and then as teacher's aides. They will be exposed to the profession of magistrate through seminars, lectures, films, etc.

EDES 3016 - Laboratory and Field Experiences for High School Education Students
Two to three credits.
Education students will begin a sequence of clinical and laboratory experiences to become familiar with the school system and community, as well as teaching and other curricular tasks. In this first phase, they will attend schools of different levels with different socioeconomic characteristics. They will participate first as observers and then as teacher's aides. They will be exposed to the teaching profession through seminars, conferences, and films.

EDES 3025 - Nature and Needs of the Handicapped Preschooler
Three credits. Three hours of lecture a week.
A course that studies the effects of different impediments on the development of preschool-age children and their educational implications.

EDES 3026 - Physical Education of the Handicapped Preschool Child
Three credits. Three hours of lecture a week.

Knowledge and skills aimed at improving, alleviating, or correcting preschool-age children's impairments through physical activities.

EDES 3027 - Curriculum and Methodology for Teaching the Exceptional Adolescent
Three credits. Three hours of lecture a week.
Competencies needed to lead the learning of the exceptional adolescent. Curricular areas that must be covered in the teaching of this adolescent. Teaching methods and techniques that can be adapted and/or created to address the situation of the exceptional adolescent in the regular classroom. It is complemented by laboratory experiences in institutions that serve the exceptional adolescent.

EDES 3028 - New Trends for the Education of the Exceptional Child in the Classroom
Three credits. Three hours of lecture a week.
Analysis and study of new trends and strategies for the education of exceptional students in the regular classroom. It focuses on fundamental concepts about each type of exceptionality and its implications for the teaching of curricular content at different academic levels. It presents the *mainstreaming* alternative and its implications as a strategy for change and organization, as well as the different processes of implementation of this alternative considering the Puerto Rican reality.

EDES 3035 - Seminar: Curriculum and Methodology for Teaching the Handicapped Preschool Child
Three credits. Three hours of lecture a week.
Basic course on the education of handicapped pre-school children; analysis of the problems that these children may have; Planning and organization of educational activities. It will emphasize the study and analysis of this stage in the intellectual growth of a child according to developmental psychology. It offers hands-on experience in writing and implementing individualized educational plans.

EDES 3045 - Intervention of Parents of Preschool Children with Disabilities in Their Children's Education
Three credits. Three hours of lecture a week. Prerequisite: EDES 4006; 3025; 3035.
Competencies and techniques for engaging parents of preschool children with disabilities in their children's education and development. The effect of various impediments on the family, parent-teacher

communication strategies, and the development of this special child's potential is studied and analyzed within a functional context.

EDES 3205 - Assistive Technology in Special Education
Three credits. Three hours of lecture a week.
Analysis of the theoretical and practical foundations in the use of technological assistance for the education of people with disabilities. Emphasis on the integration of technological assistance in education and the family environment, in service models and in the process of assessing and identifying the needs of the educated. It requires field experience.

EDES 4000 - Teaching Methodology in K-12 Special Education Three credits. Three hours of lecture a week. Prerequisite: EDPE 4121, 75% major courses, 75% sub major courses, and FAED 4002.

Laboratory and field experiences for special education teacher-students. They will participate in the planning, teaching, and assessment processes of students with special needs in the regular and specialized contexts of K-12 levels. At the same time, they will identify and analyse the best educational practices to meet the particular needs of their students and their school contexts. The main purpose of these field experiences is to expose the teacher-student to the immediate reality of the field of special education that allows him to reflect on the theoretical and practical aspect of the teaching and learning process of children with special needs and the factors that affect them. This course is offered in face- to-face, hybrid, distance and online modalities.

EDES 4001 - Laboratory and Field Experiences for Elementary Education Students
One to two credits. Six hours of clinical and laboratory experiences per week.
Students will be assigned to classrooms to teach one to three groups. They will plan, teach, and evaluate their classes with the help of a team of faculty-clinicians. They will identify learning problems of their students and/or the school and participate in the planning and action to solve them.
EDES 4002 - Laboratory and Field Experiences for Elementary Education Students
Four credits. Fifteen hours of practice per week.
Students will be assigned to classrooms to teach one to three groups. They will plan, teach, and evaluate their classes with the help of a team of clinical faculty. They will identify learning problems of their students and/or the school and participate in the planning and action to solve them.
EDES 4005 - Nature and Needs of Children and Adolescents with Emotional Imbalances
Three credits. Three hours of lecture a week. Prerequisite: EDFU 3001- 3002.

It discusses at length the most common behavioral deviations in children and adolescents, possible causative factors, and some provisions, both therapeutic and educational, that can be provided in these cases. It offers the student the opportunity to engage with and evaluate some of the best-known approaches to the prevention and intervention of conduct disorders in children and adolescents. It concludes with an overview of the most recent innovations in aspects of treatment for children and adolescents with behavioral deviations. This course is offered in face- to-face, hybrid, distance and online modalities.

EDES 4006 - Nature and Needs of Exceptional Learners
Three credits. Three hours of lecture a week.
It provides an overview of the psychological and educational needs of exceptional learners. It provides the necessary experiences and knowledge for the design and implementation of appropriate curricular programs, techniques, and strategies for these students. Laboratory and field experiences, including observations of exceptional learners in regular and special classrooms, will be an integral part of the

course. This course is offered in face- to-face, hybrid, distance and online modalities.

EDES 4008 - Education of the Child with Multiple Disabilities
Three credits. Three hours of lecture a week.
Basic course on methodology and curriculum for children with multiple and severe disabilities with emphasis on behavior modifications, early sensory estimation, intervention, and total communication. This course is offered in face- to-face, hybrid, distance and online modalities.

EDES 4015 - Nature and Needs of Mentally Retarded Children
Three credits.
Basic course on the psychology and principles of education of the mentally retarded child. The teacher is provided with the necessary background for a better understanding of the retarded child who is teachable, trainable, and in custody. Among the topics studied are: 1) the use of psychometric tests to diagnose, classify, and predict the behavior of the mentally retarded in educational and social situations; (2) the definitions, nature, causes and types of retardation and prevention of mental retardation; (3) educational and rehabilitation programs for the mentally retarded; This course is offered in face- to-face, hybrid, distance and online modalities.

EDES 4016 - Methodology and Curriculum for the Mentally Retarded Child
Three credits.
The student must take this course one semester prior to the internship. It offers the student experiences in the appropriate techniques and methods for the teaching of mentally retarded children in the different areas of the curriculum and the application of psychological theories and learning laws in the teaching of these. It emphasizes the study of the special curriculum for mentally retarded children, the preparation of instructional materials, as well as the diagnosis and individualization of teaching in the education of the educable retarded. This course is offered in face- to-face, hybrid, distance and online modalities.

EDES 4018 - Teaching the Trainable Retarded Child
Three credits. Three hours of lecture a week.
An in-depth and detailed study of the nature of the mentally retarded trainable child (moderate and severe), his limitations and potentialities, and the implications of these aspects in his training. Analysis of the appropriate curriculum and study of the areas of training, pedagogical principles, techniques and effective strategies for the training of these children. Emphasis on
the study of systematic teaching and its application in the training of the trainable retarded, as well as on the selection of materials and equipment for this type of child.
EDES 4019 - Nature and Diagnosis of Specific Learning Disabilities in Children
Three credits. Three hours of lecture and two hours of laboratory time per week.
It includes the study of neuropsychological and psychological theories related to learning difficulties. It also provides experiences for the study of instruments to diagnose specific and limiting difficulties in children with learning disabilities. This course is offered in face- to-face, hybrid, distance and online modalities.

EDES 4025 - Methodology for Teaching Children with Speech Defects
Three credits.
General concepts and new educational trends in the education of children with speech defects. It relates these defects to the child's behavior in the classroom and provides teachers with new techniques and materials to deal with the academic achievement of this type of student.
EDES 4026 - Inclusive Classroom Management and Administration
Three credits. Three hours of lecture a week. Prerequisite: EDES 4006.
Through this course, the student develops competencies and skills for the academic and administrative management of the inclusive classroom. It includes in its subject matter the areas related to educational

strategies and practices that have proven to be effective in dealing with the teaching-learning process in this context, especially in relation to behavior management strategies,
the proper management of documentation around students, compliance with the procedures established by the Department of Education, and interaction with parents of students with special educational needs. This course is offered in face- to-face, hybrid, distance and online modalities.

EDES 4028 - Introductory Course: Nature and Needs of the Visually Impaired
Three credits. Three hours of lecture a week.
This course provides an introduction to the sociological, psychological, and pedagogical problems created by an impairment in exceptional children. It will focus on the nature and needs of these children while offering an introduction to the concepts, techniques and materials used in the teaching of the visually impaired. Among the outstanding activities of the course are: visits to agencies, use of professional resources, observations, structures and information about the child with vision problems, methods of detection and prevention of visual problems in the regular classroom.
EDES 4029 - Curriculum in the Education of Children with Visual Impairments
Three credits. Three hours of lecture a week.
It focuses on the curricular areas that must be covered in the teaching of the visually impaired with their due adaptations and modifications. It also presents teaching methods and techniques that can be adapted to the particular situation of the visually impaired. It offers opportunities to create and adapt different teaching materials used in the education of the visually impaired, as well as experiences of observation and direct relationship with this type of child.

EDES 4035 - The Education of the Higher Mental Ability Student
Three credits. Prerequisite: For elementary and secondary school principal and teachers.
This course includes the identification of the student of superior mental ability, practices used in his/her education (enrichment, grouping and acceleration), the study of existing programs, problems of personal, social and educational adjustment and the orientation of this student.

EDES 4036 Educational Implications of Sensory Disfunction.

EDES 4037 - Communicology in the Education of the Blind and Visually Impaired
Three credits. Three hours of lecture a week. Prerequisite: EDES 4028, 4029.
It covers techniques and methods in teaching braille (reading and writing in English and Spanish). Use of magnifiers and materials for the visually impaired and the partially sighted.
EDES 4038 - Orientation and mobility
Three credits. Three hours of lecture a week. Prerequisite: EDES 4028 and EDES 4029.
This course covers the peri pathology aspects necessary to be a specialist in the field of special education. The course deals with aspects of psychology, skills and techniques in the orientation and mobility of people with severe visual problems who need to use a cane or other mobility tools. It is planned to extend the concept of counselling to other disabled persons such as the mentally retarded, the deaf-blind and the multi-handicapped.

EDES 4039 - Techniques for the Remediation of Specific Learning Disabilities
Three credits. Three hours of lecture and two hours of laboratory time per week. Prerequisite: EDES 4019.
The course provides for the study of remedial procedures for the correction of specific learning disabilities of children that affect the acquisition of knowledge and skills relevant to school learning. It offers experience for the use of diagnostic instruments and the use of results for the planning of individual instructional programs.

EDES 4040 - *Braille System* with Contractions and Mathematics

Three credits. An hour and a half of discussion and an hour and a half of workshop. Prerequisite: EDES 4037.
This course studies and discusses the theoretical principles, strategies, and methodology for teaching Braille with contractions in English, *the Nemeth code (Braille* applied to mathematics), and the use of the *Cranmer* abacus to teacher candidates who will prepare to work with students with visual impairments.
EDES 4045 - Laboratory and Field Experiences for High School Education Students
Two to three credits.
Students will be assigned to classrooms to teach one to three groups. They will plan, teach, and evaluate their classes with the help of a team of clinical faculty. They will identify learning problems of their students and/or the school and participate in the planning and action to solve them.

EDES 4046 - Laboratory and Field Experiences for High School Education Students
Two to three credits.
Students will be assigned to classrooms to teach one to three groups. They will plan, teach, and evaluate their classes with the help of a team of clinical faculty. They will identify learning problems of their students and/or the school and participate in the planning and action to solve them.

EDES 4047 - The Education of the Emotionally Disturbed Child
Three credits. Prerequisite: EDES 4005.
Study of learning problems in children with emotional disturbances. Analysis of modern educational approaches (programs, techniques, materials, diagnosis, correction) used in the education of this type of child. It also studies the role of teachers and other professional personnel in the identification, diagnosis and education of children with emotional problems and behavioral deviations.

EDES 4048 - Behavior Modification Applied to the School Setting
Three credits. Three hours of lecture a week.
Analysis and management of the principles and techniques for altering, changing and modifying abnormal, inappropriate and deviant behavior associated with the teaching-learning process.

EDES 4055 - Teaching Strategies for the Inclusion of Students with Special Educational Needs in the Regular Classroom
Three credits. Three hours of lecture a week. Prerequisite: EDES 4006.
This course is based on the practical aspect of the teaching-learning process of students with special needs in the context of the regular classroom. In it, future teachers will carry out the planning process taking into consideration individual differences in the classroom, prepare teaching materials adapted to a wide range of human capacities, and develop educational intervention strategies aimed at adequately managing the context of diversity. The course is based on the postulates of universal design for learning and differentiated education. This course is offered in face-to-face, hybrid and online modalities.

EDES 4057 - Curriculum and Educational Practices for Students with Emotional or Behavioral Disorders
Three credits. Three hours of lecture a week. Prerequisites: EDES 4005 and EDES 4047.
The course includes the systematic study of the curriculum based on various theoretical models, research, and local and national standards that are tailored to the individual needs of learners with emotional or behavioral disorders. It includes several programs that have been effective with this population. Areas of the general curriculum are inserted and accommodated to the individual needs of learners. We work with affective, social and daily living skills. In addition, we work with educational planning, the selection and preparation of varied materials adapted to their particular needs, cultural environment and human diversity. The individualized educational program, the development of a
transition plan and the functional assessment of behavior are completed. Appropriate use of technology is

incorporated for the achievement of learning.

EDES 4065 - Nature and Needs of the Student with Specific Learning Disabilities
Three credits. Prerequisite: EDES 4006.

Study of the basic components of the field of learning disabilities. Concepts related to etiology, theoretical background and current trends in this field of study are raised and analyzed.

EDES 4067 - Inclusion and Motivation of Students with Special Needs
Three credits. Three hours of lecture a week.
Development of skills in regular education students for the adequate care of students in the special education program integrated into the regular program. Emphasis on the development of teaching skills according to the different disabilities in the use of motivation and awareness techniques. The skills included in the course are based on the law that guarantees the educational rights of people with disabilities.

EDES 4069 - Transition from School to the World of Work
Three credits. Three hours of lecture a week. Prerequisite: None.
Development of the basic knowledge and skills necessary to provide transition services to students with disabilities, between the ages of 16 and 21. Emphasis on the development of teaching skills necessary for the transition process from school to the world of work. It includes the use of teaching methodology for transition at the intermediate, higher and post-secondary levels.

EDES 4075 - Nature and Needs of the Child with Hearing Impairments
Three credits. Three hours of lecture a week. Prerequisite: EDES 4006.
Introductory course that introduces the general concepts of hearing problems and their effects on the teaching-learning process of students with hearing difficulties.

EDES 4006 - Nature and Needs of Exceptional Learners
Three credits. Three hours of lecture a week.
It provides an overview of the psychological and educational needs of exceptional learners. It provides the necessary experiences and knowledge for the design and implementation of appropriate curricular programs, techniques, and strategies for these students. Laboratory and field experiences, including observations of exceptional learners in regular and special classrooms, will be an integral part of the course. The course can be offered face-to-face and online.

EDES 4076 - Curriculum and Teaching of the Hearing-Impaired Child
Three credits. Three hours of lecture a week. Prerequisite: EDES 4006.
Various methods, techniques, equipment and materials to be used in the teaching of children with hearing impairments.

EDES 4077 - Communication Techniques for the Audio-Impaired Population
Three credits. Three hours of lecture a week. Prerequisite: EDES 4006, 4075, 4076.
The course is designed to provide the student-teacher with communication skills for the disabled population.
EDES 4085 - Methodology for the Design, Organization, and Management of Special Education Resource Classroom Programs *Three credits. Three hours of lecture a week. Prerequisite: EDES 4006.*
Discussion of the various components that should be considered in the design, organization, and management of resource room programs. It includes the application of the diagnostic process and the use of instructional alternatives in the development of programs at the elementary, middle, and high school levels.

EDES 4095 - The Visual Arts in the Education of the Exceptional Child
Two credits. One hour of lecture and one hour of lab or workshop per week. Prerequisite: EDES 4006.
Theoretical and practical study of the visual arts as a resource in the education of the exceptional child. The basic principles of art, their properties and their educational and therapeutic function are studied. It includes methods for teaching art to the exceptional child and workshops for the student to exercise in the techniques and art materials proper for this child.

EDES 4105 - Teaching Practice in Special Education with Children with Severe Mental Retardation
Four credits. Twenty hours of practice a week. Prerequisite: EDES 3002, EDES 4000. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching process at a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field and that the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the students. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDES 4106 - Teaching Practice in Special Education with Children with Severe Behavioral Deviations
Four credits. Twenty hours of practice a week. Prerequisites: Complete 100% of the professional courses and 100% of the specialty.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In this experience, students are provided with theoretical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the students. The student attends four hours daily at the assigned school or seminary at the university.

EDES 4107 - Teaching Practice in the Teaching of Special Education with Children with Visual Impairments
Four credits. Twenty hours of practice a week. Prerequisites: Complete 100% of the professional courses and 100% of the specialty.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In this experience, students are provided with theoretical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the students. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDES 4108 - Teaching Practice in Preschool Special Education Four credits. Three hours of lecture and twelve hours of supervised practice per week. Prerequisite: Principal's permission.
The student is assigned to a public or private school in a special education preschool group, three hours a day, five days a week. Four days are devoted to teaching and participating in all the other activities inherent in the work of the teacher. One day a week he meets in seminar with the university professor to

analyze and discuss the experiences of his teaching practice. In this
laboratory, the student is assisted in his self-study by a supervising teacher, the school principal and a university professor.

EDES 4109 - Practice in Teaching Specific Learning Problems Four credits. Four hours of seminar per week and sixteen hours of supervised practice. Prerequisite: having completed credits of the professional component, specialty credits and FAED 4001, 4002.

Teaching practice requires students to plan and facilitate the teaching and learning process in a public or private school with children who have specific learning disabilities, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the students.

EDES 4110 - Practice in Teaching the Hearing Impaired

Four credits. Four hours of seminar and sixteen hours of supervised practice per week. Computer skills are required (includes use of Blackboard). Prerequisites: to have completed the required credits in the professional component and those of the specialty; FAED 4001 and FAED 4002 seminars. Corequisites: FAED 4003.

In practice teaching, students are required to plan and facilitate the teaching learning process in a public school with children who are hearing impaired, participate and attend professional seminars at the university. These experiences provide students with the theoretical tools, technique, practices and methods to increase their knowledge, develop skills and attitudes to enhance their practicum experience. In addition, current pertinent topics in the student's area of specialty are discussed and analyzed, as well as situations that occur during the practicum experience. Supervision of the student's performance is provided by the university professor, the collaborating teacher and the school director.

EDES 4115 Teaching Reading to Deaf and Partially Deaf Students

Three credits. Three hours of conference per week. Prerequisites: EDES 4006, EDES 4075, EDES 4076 and EDES 4077.

The course analyzes contemporary practices, methods and strategies used to teach reading to students who are deaf, partially deaf and with hearing problems, as well as the factors which lead to successful outcomes. The course requires 10 hours of field experience for the observation and implementation of these methods and strategies in a real context.

EDES 4116 Language Development in Deaf Students and Partial Deaf Students

Three credits. Three hours of conference per week.

Prerequisites: EDES 4006, EDES 4075 and EDES 4077.

Analytical study of theories, methodologies, strategies and appropriate practices for language development and teaching the deaf, partial deaf and hard of hearing student, with speech and language disorders in different educational contexts. Emphasizes the relation of these disorders with the behavior, exceptionality (condition) of the student in the classroom, methodology and materials to develop the academic potential of these exceptional learners. It includes students with hearing loss, partially and totally deaf. This course substitute EDES 4025.

EDES 4125 Autism: Psychosocial and Neurobiochemical Aspects

Three credits. Three hours of lecture per week. The course amply discusses the area of autism from birth to adulthood. A historical background and theoretical foundations are included simultaneously with both state and federal laws; and the public policy to protect the rights of this population is presented. Characteristics as well as diverse current definitions that correspond to established protocols on mental health are discussed. The course includes possible causal factors of the conditions such as: psychological,

neurological, biochemical and exogenous. studies of various disciplines such as pediatrician, pediatric gastroenterologist, psychologists, speech-language pathologists, occupational therapists, geneticists, nutritionists, educators and others in autism management. the epidemiology, diagnosis and treatment of the condition are included. Accommodations technology support and educational practices appropriate for this population are analyzed.

EDES 4126 Multisensory Communication of Students with Autism
Three credits. Three hours of lecture per week.

In depth study of multisensory and multimodal communication theories and practices for individuals with autism. Emphasis on diverse augmentative and alternative communication tools for these students. Also on appropriate educational practices for attention an/or intervention on specific communication difficulties. it includes field experience in centers and schools that offer services to this population. It would involve observation and implementation of the material taught in the classroom.

EDES 4127 Applied Analysis Behavior Therapy and Autism
Three credits. Three hours of lecture per week. In depth study of the theory and practice of applied behavior analysis (ABA) and behavior therapy (BT) for autistic populations. Emphasis on benefits of ABA and BT for these students. Study of the connections and uses between ABA and BE with the processes and practices of assessment, evaluation, curriculum, settings, assistive technology and teaching strategies. includes field experiences in centers and schools that offer services to this population.

EDES 4128 Curriculum and Educational Practices for Autism
Three credits. Three hours of seminar per week.
Prerequisite: EDES 4125

The course examines basic curriculum practices applied to autism such as definition and characteristics which serve as framework for the curriculum. It includes essential curriculum concepts, curriculum areas basic to the individual education program (IEP) and principal strategies for working with the continuum of autism. Appropriate strategies for intervening with students with autism are specified. Both the teacher's role and the work with the families are emphasized. All of the above is integrated in case studies and curriculum proposals that foster development as per the profile of the population with autism. It includes field experiences with families or in centers/schools that offer services to this population. This course will be offered face-to-face, hybrid and online modalities.

EDES 4129 Assistive Technology for People with Autism
Three credits. Three hours of lecture per week. Functional study of the operational bases, practices, software, equipment, applications, networks and other content of technology (T) and assistive technology (AT) for people with autism. It will also provide emphasis on the uses, benefits and connections for the education of people with this condition. Similarly, the skills related to T and AT in the processes and practices of assessment, evaluation, curriculum, environment and teaching strategies will be integrated. Students will have clinical experiences in the centers and schools that offer services for this population.

EDFI 3009 - Introduction to Folk Dance
Two credits. One hour of lecture and two hours of laboratory time per week.
A brief history of the development of dance. Talks about origin, style of the specific dance and customs of the people that the dance represents. Simple folk dances and an emphasis on fundamental movements. Preparatory exercises for dances.

EDFI 3010 - Social Dances
Two credits. One hour of discussion and two hours of lab time per week.
Presentation of a program of social dances to teach, learn and practice, following a progressive method, the fundamental elements of the most well-known and practiced social dances. It covers the teaching, learning, and practice of the following dances: *Fox Trot, Lindey (Swing* or *Jitterburg), Waltz, R*umba, Mambo, Cha-cha-chá, Tango, Samba, Paso Doble, Salsa en clave
and Merengue. It includes how to direct and follow your partner, and basic skills related to laps. The course is aimed at students who do not know how to dance social dances.
EDFI 3017 - Elemental Fencing
Two credits. One hour of lecture and two hours of laboratory per week.
Introduction to the sport of fencing, its rules, history and evolution along with theory and practice of the fundamental skills of fencing and their formal application through individual competitions.
EDFI 3018 - Exploring the Movement of the Human Body
A credit. One lecture hour and one lab hour per week.
Methodology and study of the dynamism of the movement of the human body through rhythmic activities, creations, exercises and dances.
EDFI 3019 - Aerobic Rhythmic Exercises
Three credits. Three hours of lecture a week.
A fitness program that uses exercises, locomotor skills, and basic dance steps with musical accompaniment to improve the components of physical fitness, cardiorespiratory endurance, muscular endurance, strength, and the development of flexibility. The course also includes the design and implementation of rhythmic aerobic exercise programs.
EDFI 3020 - Aerobic Rhythmic Exercise: Step & Slide
Two credits. One hour of discussion and two hours of lab time per week.
Presentation of a rhythmic aerobic exercise fitness program for a healthy population, using a slider step. Discussion of theoretical and practical aspects in the design, implementation and evaluation of the program.
EDFI 3025 - Elementary Volleyball
Two credits. One hour of lecture and two hours of laboratory time per week.
It includes the theory and practice of the sport. Knowledge of fundamental skills and techniques, preparation and training. Skills development at an advanced level. Competition tactics.

EDFI 3030 - Aqua Aerobics
Two credits. One hour of discussion and two hours of lab time per week.
Presentation of an aqua aerobics program with music for healthy populations. Discussion of theoretical and practical aspects in the design, implementation and evaluation of the program.
EDFI 3035 - Elementary Basketball
Two credits. One hour of lecture and two hours of laboratory time per week.
It includes the theory and practice of the sport. Knowledge of fundamental skills, preparation and training. Skills development at an advanced level. Competition tactics.
EDFI 3045 - Softball
Two credits. One hour of lecture and two hours of laboratory time per week.
It includes the theory and practice of the sport. Knowledge of fundamental skills, preparation and training. Skills development at an advanced level. Competition tactics.
EDFI 3055 - Judo
Two credits. One hour of lecture and two hours of laboratory time per week.
It includes the theory and practice of the sport. Knowledge of fundamental skills, preparation and training. Skills development at an advanced level. Competition tactics.
EDFI 3056 - Introduction to Motion Analysis
Three credits. Three hours of lecture a week.

Analysis of the basic principles of learning and teaching human movement. It also includes the study of introductory concepts of motor learning and kinesiology. In addition, the development of fundamental movement patterns and their relationship with the process of human development will be studied.
EDFI 3065 - Elementary Baseball
Two credits. One hour of lecture and two hours of laboratory time per week.
It includes the theory and practice of the sport. Knowledge of fundamental skills, preparation and training. Skills development at an advanced level. Competition tactics.
EDFI 3075 - Sports Skills, Training and Techniques (Track and Field)
Two credits. Three hours of lab time a week.
This course covers hands-on learning and developing the skills necessary to be able to execute the various events that make up the sport of track and field and cross country.

EDFI 3090 - Physical Education for Preschool
Three credits. Three hours of lecture a week.
The fundamental aspects in the psychomotor, cognitive and affective development of the child up to the age of 5 and their relationship and application to physical education, with emphasis on the selection, organization and evaluation of movement activities at this level.
EDFI 3095 - Basketball Coaching
Two credits. One hour of lecture and three hours of laboratory time per week.

Theory and advanced practice of the fundamentals of the game, offense and defense, dressage.

EDFI 3101 Introduction to Racquets Sports
Three credits. Three hours of workshop per week. Teaching of the history, rules, fundamentals, tactics, physical and mental benefits through rackets sports. In this course the students perform different racket sport skills through playful and cooperative activities. in this course, students learn the necessary basic knowledge and skills to participate on a recreational or amateur event of racket sports. This course is offered in face-to-face and hybrid modalities.
EDFI 3115 - Physical Education as a Kindergarten-Third Grade Teaching Vehicle
Three credits. One hour of lecture and four hours of laboratory time per week.
Presentation of modern approaches to physical education for primary grades. Emphasis on the process of selecting, organizing, and evaluating movement activities that contribute to the child's perceptual-motor, socio-emotional, physical, and intellectual development. Evaluation of these activities as teaching vehicles. This course is offered in face-to-face, hybrid and online modalities.

EDFI 3125 - Physical Education for Grades Fourth through Sixth
Three credits. One hour of lecture and four hours of laboratory time per week.
Discussion of the modern objectives of the elementary school physical education program. Emphasis on the process of selecting, organizing, and directing rhythmic activities, elementary gymnastics, preparatory games, outdoor education (camp skills), and water activities. Evaluation of the contribution of these activities to child development.

EDFI 3135 - Track & Field Coaching
Three credits. One hour of lecture and three hours of laboratory time per week.
Theory and practice of track and field from a technical point of view. Study of personnel selection, physical, technical and psychological preparation. Current training theories analyzed and practiced according to the needs of Puerto Rico.

EDFI 3145 - Rescue and safety on the water
Two credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: EDFI 3441-3442.

Technical skills such as approaching the victim, blocking, swimming underwater, etc. As well as advanced swimming with the purpose of perfecting the styles used in lifesaving: inverted side style, breaststroke and freestyle with emphasis on the kick. Resuscitation methods.
Certification.
EDFI 3147 - Swimming & Diving
Two credits. Three hours of lecture a week.
Development of swimming and diving skills. Emphasis on learning basic techniques as a resource for teaching fundamental swimming skills in school curricula and supervised recreation programs.
EDFI 3155 - Training Principles and Problems
Three credits. Three hours of lecture a week.
Scientific principles on which training in any sport rests, both physiological, psychological and social.
EDFI 3165 - Arbitration
Three credits. One hour of lecture and three hours of laboratory time per week.
Knowledge of rules, mechanics of refereeing and their application in major sports. Fieldwork in intramural activities.

EDFI 3175 - Physical Education for the Mentally Retarded Child
Three credits. Three hours of lecture a week.
It provides the teacher with the opportunity to study and immerse himself in the nature and problems of the mentally retarded child in physical education and recreation programs, as well as with the school curriculum in the case of the mentally retarded.
EDFI 3185 - Corrective Physical Education
Three credits. One hour of lecture and three hours of laboratory time per week.
School-based programs of special activities for the development and conditioning of students with physical limitations, according to their interests, abilities and limitations. It includes relationships with school staff, medical and auxiliary services, family, and staff in the community.
EDFI 3195 - Massage and bandage
Two credits. Three hours of lecture a week.
Practical course that tries to familiarize the student with the elementary concepts of bandages and their physiological effects, as well as the need and application of preventive and protective bandages. (Students will need to bring their own material.) This course is offered in face-to-face, hybrid and online modalities.

EDFI 3375 - Intermediate Judo
Two credits. One hour of lecture per week and two hours of lab. Prerequisite: teacher's permission or at least yellow ribbon in judo.
The student will have the opportunity to improve the judo skills already acquired. These include falls, grappling techniques, pulls and immobilization. It delves into basic training which can be used to develop in any sport. Upon completion of the course, the student is expected to gain the skills and practice necessary to obtain the orange ribbon degree.
EDFI 3385 - Physical Efficiency
Two credits. Three hours of lab time a week.
Knowledge and information about physical efficiency and its affinity to health. Means of obtaining the level of fitness necessary to maintain desirable physical proportions. This course is offered in face-to-face, hybrid and online modalities.

EDFI 3395 - Physical Education for the Exceptional Child
Three credits. Three hours of lecture a week.
Adaptation of physical education to the needs of the child who deviates from the normal in his or her mental, physical or social characteristics. Special emphasis on programs for the disabled.

EDFI 3405 - Gymnastics

Two credits. Three hours of lab time a week.
This course covers hands-on learning and the development of the skills necessary to be able to execute the various events that make up the sport of gymnastics.

EDFI 3407 - Intermediate Gymnastics
Two credits. One hour of lecture and two hours of laboratory per week. Prerequisite: EDFI 3405 and professor' permission.
Introduction to the intermediate difficulty movements of artistic gymnastics. Emphasis on the practical and theoretical teaching of the intermediate skills necessary to perform the different events that make up artistic gymnastics.

EDFI 3415 - Self-Defense
Two credits. One hour of lecture and two hours of laboratory time per week.
Methods and materials to be used in self-defense. Simple materials and preventive methods. For ladies only.

EDFI 3427 - Sport & Weight Training
Two credits. One hour of lecture and two hours of supervised practice.
Introduction to the principles and practices related to weight training for fitness purposes.

EDFI 3441 - Introduction to Swimming
Two credits. One hour of lecture and two hours of laboratory time per week.
History of swimming. Elementary skills, movement analysis, and water safety rules. Elementary styles and introduction to diving. It is offered to both men and women.
EDFI 3442 - Intermediate Swimming
Two credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: EDFI 3441.
Improvement of basic skills. Body conditioning. Some advanced styles and improvement of elementary dives. Introduction to basic lifesaving skills.
EDFI 3451 - Tennis
Two credits. One hour of lecture and two hours of laboratory time per week.
Theory and practice of sport. Knowledge of fundamental skills, preparation and training. Skills development at an advanced level. Competition tactics.
EDFI 3452 - Advanced Tennis
Two credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: EDFI 3451 or equivalent.
It includes the theory and practice of the sport. Knowledge of fundamental skills, preparation and training. Skills development at an advanced level. Competition tactics.
EDFI 3455 - Tennis Skill Analysis
Two credits. One hour of lecture and two hours of laboratory per week.
Analysis of the correct mechanics of basic movements in the sport of tennis and study of methods to detect and correct common errors in learning. Emphasis on the planning of activities for the development of basic movement patterns necessary in this sport and on the analysis of strategies for teaching rules, scoring system and history.
EDFI 3475 - Softball, Volleyball & Baseball
Two credits. Three hours of lab time a week.
This course covers hands-on learning and developing the skills necessary to execute the movements required in the sports of baseball, softball, and volleyball.
EDFI 3525 - Recreational Manual Skills
Two credits. One hour of lecture and two hours of laboratory time per week.
Fundamental techniques for the use of cheap material for the manufacture of personal and household

items as a means of recreation. Instruction in the development of wood projects; *papier mache;* crumb (bread dough) and/or *decoupage.* A simple method to encourage creativity and to be used for recreational purposes.

EDFI 3555 - History and Principles of Physical Education
Three credits. Three hours of lecture a week.
Historical research of Physical Education from its origin to the present. Study and interpretation of the fundamental basic principles in Physical Education programs. The course is offered in face-to-face, hybrid and online modalities.

EDFI 3556 - Introduction to the Application of Computers in Physical Education and Recreation
Three credits. One hour of lecture and two hours of workshop per week.
It includes the basic concepts of the management of information systems through the use of computers and provides the skills for the application of computerized programs relevant to physical education and recreation. The organization of administrative and academic data contributes to efficiency in the provision of educational and community services. Through the use of computers, this process is streamlined and programs are improved qualitatively and quantitatively. Students will have experiences organizing databases, *spreadsheets*, graphs, simple statistics programs,
conversion of processed data from application *formats to ascii formats,* computer communications, and the use of electronic library files.

EDFI 3565 - Intermediate Folk Dances
Two credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: EDFI 3009 or equivalent.
Greater focus on origin, sociological background, folk customs, costumes, style. Dances with more elaborate choreography. Preparatory exercises for dances.

EDFI 3585 - Basic Rhythms
Two credits. Two hours of meeting per week.
Theory and practice of rhythms applied to the physical education program.

EDFI 3595 - Basketball & Football
Two credits. Three hours of lab time a week.
This course covers hands-on learning and developing the skills necessary to be able to execute the movements required in the sports of basketball and football.

EDFI 3645 - First Aid & Safety
Two credits. One hour of lecture and two hours of laboratory time per week.
Incidence, causes, and prevention of accidents, along with appropriate procedures for the prevention and treatment of injuries. Accepted first aid instructions leading to certification in this field. This course is offered in face-to-face, hybrid and online modalities.

EDFI 3655 - Elementary School Games
Two credits. One hour of lecture and two hours of laboratory time per week.
Theory, practice and method of simple organization games, relays, preparatory games and sports, track and field activities and special activities.

EDFI 3675 - Life, Health & Wellness
Three credits. Three hours of lecture a week.
Study of the main individual and collective health problems. Emphasis on the relationship between lifestyles and external factors and their consequences on individual and societal well- being. Basic aspects of safety, prevention and management of risks and/or accidents in daily life at home and in the community. This course is offered in face-to-face, hybrid and online modalities.

EDFI 3686 - Learning Motor Skills
Three credits. Three hours of lecture a week.
Study of aspects related to learning, control and performance of motor skills. Concepts of processes of

control, practice, transfer, and other conditions surrounding the execution of skills. This course is offered in face-to-face, hybrid and online modalities.

EDFI 3687 - Psychological Foundations of Sport and Physical Activity
Three credits. Three hours of lecture a week.
Theory and research of the psychology of sport and physical activity and its application to physical education and competitive sport. Hands-on laboratory experiences using psychological strategies.
EDFI 3689 - Psychology of Child and Youth Physical Activity
Three credits. Three hours of lecture a week.
Theory and research related to the participation of children and young people in physical activity and sport. Emphasis on psychological behavior as a result of participation. Basic concepts of sports psychology and its relationship with physical and mental development.
EDFI 4001– Swimming, Games and Water Activities
Three credits. Two hours of workshop, half an hour of discussion and half an hour of lecture per week.
Prerequisite: EDFI 3555.
Demonstrate mastery of the rules, tactical concepts, fundamental psychomotor skills and games of the different activities and water sports. Apply methodological and curricular knowledge to the teaching of water activities and sports. Plan in the short and long term for the teaching of the different activities and water sports at levels pk-12. Design assessment strategies to assess student learning. This course is offered in face-to-face, hybrid and online modalities.

EDFI 4002– Fundamentals of Individual Sports
Three credits. Three hours of lecture a week. Long-term for teaching different individual sports
Prerequisite: EDFI 3555
Demonstrate mastery of the fundamental psychomotor rules and skills of the different individual sports. Apply methodological and curricular knowledge to the teaching of individual sports.
Short-term and long-term planning for teaching different individual sports at different levels. Design assessment strategies to assess student learning. This course is offered in face-to-face, hybrid and online modalities.
EDFI 4003–Basics of Mesh Games
Three credits. Two hours of workshop, half an hour of lecture and half an hour of discussion per week.
Prerequisite: EDFI 3555.
Demonstrate mastery of the rules, tactical concepts, and fundamental psychomotor skills of the different mesh games. Apply methodological and curricular knowledge to the teaching of mesh games. Plan for the short and long term for teaching different mesh games at different levels. Design assessment strategies to assess student learning. This course is offered in face-to-face, hybrid and online modalities.

EDFI 4004– Fundamentals of Invasion Games
Three credits. Two hours of workshop, half an hour of discussion and half an hour of lecture per week.
Prerequisite: EDFI 3555
Demonstrate mastery of the rules, tactical concepts, and fundamental psychomotor skills of the different invasion games. Apply methodological and curricular knowledge to the teaching of invasion games. Plan for the short and long term for teaching different invasion games at different levels. Design assessment strategies to assess student learning. This course is offered in face-to-face, hybrid and online modalities.

EDFI 4015 - Advanced Volleyball
Three credits. One hour of lecture and three hours of laboratory time per week.
Study and analysis of defensive play; offensive play, the selection of players by position; tactical play, practical problems in team management and player control.
EDFI 4018 - Methodology for the teaching of physical education at the elementary level

Three credits. Three hours of lecture a week. Prerequisites. EDFI 3090, EDFI 3115, EDFI 3125. Study of the basic principles of the elementary school physical education curriculum. Emphasis on designing, reviewing, organizing, and adapting content that best responds to the student's needs, learning styles, and abilities. The theoretical, philosophical and research approaches that underpin the curricular principles will be discussed. Emphasis on the following topics: teaching strategies and methodologies, group management, *assessment* and evaluation. Discussion of research principles and ethical issues in elementary education. Use of emerging technology as a teaching strategy at the elementary level. Requires observational clinical experience in elementary school. This course is offered in face-to-face, hybrid and online modalities.

EDFI 4019 - Fundamentals of Tennis Teaching
Three credits. Three hours of lecture a week.
Analysis and application of the fundamental principles of tennis teaching. It includes mastery of the basic skills of this sport so that you can demonstrate and teach them in class.
EDFI 4025 - Advanced Basketball
Three credits. One hour of lecture and three hours of laboratory time per week.
Study and analysis of defensive play; offensive play, the selection of players by position; tactical play, practical problems in team management, management and control of players.
EDFI 4028 - Fundamentals of Softball Teaching
Three credits. Three hours of lecture a week.
Analysis and application of the fundamental principles of softball teaching. It includes mastery of the basic skills of this sport so that you can demonstrate and teach them in class.
EDFI 4035 - Advanced Baseball
Three credits. One hour of lecture and three hours of laboratory time per week. Prerequisite: EDFI 3065.
Study and analysis of defensive play; offensive play, the selection of players by position; tactical play, practical problems in team management and player control.
EDFI 4036 - Fundamentals of Track and Field Teaching
Three credits. Three hours of lecture a week.
Analysis and application of the fundamental principles of track and field teaching. It includes mastery of the basic skills of this sport so that you can demonstrate and teach them in class. **EDFI 4037 - Fundamentals of Swimming Teaching**
Three credits. Three hours of lecture a week. Prerequisite: EDFI 3441.
Analysis and application of the fundamental principles of swimming education. It includes mastery of the basic skills of this sport so that you can demonstrate and teach them in class. **EDFI 4045 - Evaluation in Physical Education**
Three credits. Two hours of lecture and two hours of laboratory time per week.
General and fundamental considerations of testing, introduction to procedures and analysis, uses and limitations of testing and evaluation, introduction to statistics, qualities of a test, various kinds of tests, and measuring tests in physical education. This course is offered in face-to-face, hybrid and online modalities.

EDFI 4046 - Fundamentals of Baseball Teaching
Three credits. Three hours of lecture a week.
Analysis and application of the fundamental principles of baseball teaching. It includes mastery of the basic skills of this sport so that you can demonstrate and teach them in class.
EDFI 4047 - Fundamentals of Football Teaching
Three credits. Three hours of lecture a week.
Analysis and application of the fundamental principles of football education. It includes mastery of the basic skills of this sport, so that you can demonstrate and teach them in class.
EDFI 4048 - Fundamentals of Handball Teaching

Three credits. Three hours of lecture a week. Prerequisites: EDFI 3555.
Analysis and application of the fundamental principles of handball teaching. It includes mastery of the basic skills of this sport so that you can demonstrate and teach them in class.
EDFI 4049 - Fundamentals of Volleyball Teaching
Three credits. Three hours of lecture a week. Prerequisite: EDFI 3555.
Analysis and application of the principles. It includes mastery of the basic skills of this sport, so that you can demonstrate and teach them in class.
EDFI 4056 - Fundamentals of Teaching Basketball
Three credits. Three hours of lecture a week. Prerequisite: EDFI 3555.
Analysis and application of the fundamental principles of basketball education. It includes mastery of the basic skills of this sport so that you can demonstrate and teach them in class. **EDFI 4057 - Fundamentals of Teaching Gymnastics**
Three credits. Three hours of lecture a week.
Analysis and application of the fundamental principles of gymnastics teaching. It includes mastery of the basic skills of this sport so that you can demonstrate and teach them in class. **EDFI 4105 - Physiology and Physiology of Exercise**
Three credits. Three hours of lectures and labs per week. Prerequisite: EDFI 4115.
Introduction to the study of the acute and chronic effects of physical activity on the functions of the human body applied to physical education, recreation and sport. Discussion of theoretical concepts and practical application through laboratory experiences on physical conditioning and its relationship to the functions of the human body. This course is offered in face-to-face, hybrid and online modalities.

EDFI 4115 - Anatomy and Kinesiology
Three credits. One hour of lecture and three hours of lab per week.
Introduction to the study of the human body and its various movements, based on lectures and demonstrations, followed by the study of the organic system. The mechanism of joints and muscles. Analysis of the various movements of the body in relation to physical education. This course is offered in face-to-face, hybrid and online modalities.

EDFI 4125 - Physical Education Administration and Supervision
Three credits. Three hours of lecture a week.
Effective procedures in relation to organization, administration and supervision in the field of physical education. Requisition, use and care of equipment. Distribution of time and space and organization of students. Selection, organization of routine activities and procedures necessary for effective administration. Special emphasis is given to activities at the high school level. This course is offered in face-to-face, hybrid and online modalities.

EDFI 4130 - Preventive and Restorative Exercise
Three credits. Three hours of lecture a week.
Introduction to exercise as a health alternative for youth, adults, and special populations. Prescription, injury prevention, relaxation techniques tempered to the individual needs of the participants of an exercise program.
EDFI 4135 - Introduction to Stress Testing
Three credits. Three hours of lecture a week.
Fundamentals of electrocardiography. Basic principles related to the administration of stress tests and physical exercise prescription for healthy adults and people with cardiovascular, pulmonary, or other chronic conditions.
EDFI 4146 - Law, Responsibility in Physical Education and Recreation Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.
Parameters of legal responsibility that correspond to physical education professionals and recreation in the celebration of activities. Standards and guidelines on safety rules and adequate supervision for

games and sports in the instructional, competition and recreation phases. Application of the rules to the use of equipment, facilities, teaching of physical education and the organization of recreation. Case studies.

EDFI 4187 - Physical Fitness for the Elderly

Three credits. Three hours of lecture a week.

Theories about the aging process and the diseases that affect this population. Exercises and physical activities that promote the physiological, sociological and social development of this group.

EDFI 4235 - Principles of Exercise Programs for Fitness Development

Three credits. Three hours of lecture a week.

Discussion of the scientific principles applicable to the design of exercise programs for the development of health-related components of physical fitness: cardiorespiratory tolerance, muscle strength and tolerance, flexibility, and body composition. Face-to-face, hybrid and online course.

EDFI 4305 - Fundamentals of the Sports Trainer

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

Demonstrate mastery of the basic functions of the sports coach and the pedagogical strategies that affect sports training. Understand and apply the processes of identifying and developing the talent of young athletes. Plan short- and long-term training for different populations. Examine the contemporary issues that permeate sports training. This course will be offered in face-to- face, hybrid, distance and online modalities.

EDFI 4306 Seminar on Sport Nutrition, Prescription of Exercise for Functional Diversity, Management of Facilities and Legal Aspects in Training

Three credits. Three hours of seminar per week. Applied discussion of the fundamental concepts in sports nutrition, prescription of exercises in special populations, management of facilities and legal aspects in training. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDFI 4307 - Entrepreneurship and Sports-Recreational Management

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

The course will facilitate learning experiences around the fundamentals, theories and concepts in entrepreneurship and management of sport and recreation. Emphasis will be placed on the process of selection, design, development and evaluation of an entrepreneurial project in the field of sport or recreation with a business vision. It will reflect on leadership styles, budgeting, promotion in sports and creative entrepreneurship. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDFI 5015 - Introduction to Research in Physical Education and Recreation

Three credits. Three hours of lecture a week. Prerequisites: EDFI 4045 y RECR 4095. Introduction to the Scientific Method, Types of Research, Literature Review, Theoretical Aspects and ethical in the collection, analysis of, and reporting on data obtained in research related to the field of physical education and recreation. This course is offered in face-to- face, hybrid, and online modalities.

EDFU 3001 - Human Growth and Development I

Three credits.

The course aims to give future teachers knowledge about the nature and scope of psychology as a background to better understand the educational process. It confronts the student with knowledge about the growth and development of children and adolescents. It examines the natural and environmental forces that contribute to the development of a healthy personality.

EDFU 3002 - Human Growth and Development II

Three credits. Prerequisite: EDFU 3001.

Students are introduced to the psychological principles that explain the teaching-learning process and the

individual and social conditions that affect it. Part of the time is devoted to the study of the evaluation process with special attention to the principles that govern the construction of educational exams and school promotion.
EDFU 3006 - Organization and Administration of School Libraries
Three credits.
The role of the school library in the modern educational curriculum; standards for school libraries; selection and acquisition of books and other materials; cataloguing and classification of books and administration of the school library. Laboratory work in the libraries of the university's elementary and secondary schools.

EDFU 3007 - Social Foundations of Education
Three credits.
Educational processes, institutions and systems are studied based on the concepts offered by sociology, anthropology, economics and political science. It explores the main theoretical perspectives that examine the social aspects and implications of education. The school is studied as a social institution, its relations with other social institutions and the historical, political, social, cultural, economic, technological and legal processes and factors that condition its functioning. It examines the importance and effect of these factors and processes on curricula and educational practices, as well as on the academic and social performance of teachers and students. In addition, the socializing function of the school and its relationship with social and educational equity are analyzed.
EDFU 3008 - Educational Implications of Puerto Rico's Social and Economic Problems
Three credits.
Condensed and intensive analysis and interpretation of the main social and economic problems of Puerto Rico and their educational implications. Population, production and distribution, living standards, health, prostitution, crime, illegitimacy, race, education, and political status; and the relationship of these problems to the role of the school in the community. Possible solutions offered by the school to these problems.
EDFU 3009 - Principles of Cataloguing and Classification
Three credits. Lectures, lectures and laboratory work.
This subject includes the hope of theoretical and practical procedures for cataloguing and classifying books and other materials. Special study of the various types of catalogue and the different classification systems, especially the Dewey decimal system. The preparation of the catalogue-dictionary and the study and determination of the subject headings are fundamental aspects of the course.
EDFU 3010 - Fundamentals of Childhood Development
Three credits. Three hours of lecture a week.
Study of the fundamentals of cognitive, social, emotional and physical development in the human life cycle, paying special attention to the period of childhood. The various paradigms associated with these areas of development are discussed and analyzed from a comprehensive perspective and their implications for elementary education in Puerto Rico are examined.
EDFU 3011 - Fundamentals of Human Development
Three credits. Three hours of lecture and/or discussion per week.
The course introduces future teachers to the study of the fundamentals of cognitive, social, emotional and physical development in the human life cycle, paying particular attention to the period of adolescence. The various paradigms associated with these areas of development are discussed and analyzed from a comprehensive perspective and their implications for education in Puerto Rico are examined.
EDFU 3012 - Fundamentals of Educational Psychology Three credits. Three hours of lecture and discussion per week. Prerequisites: EDFU 3010 or EDFU 3011. Correquisite: FAED 4001.
The course introduces prospective teachers to the study of psychological theories, research, and innovations that explain the processes of learning and thinking in the school context. It examines the basic concepts of behaviorist, cognitive, sociocultural, and humanistic theories, among others, in their interrelation with teaching, motivation, diversity, and school coexistence. It analyzes its application to

educational practice in Puerto Rican society. Requires field experience in school settings. This course is equivalent to EDFU 3002 as of January 2011.

EDFU 3013– Learning Assessment
Three credits. Three hours of lecture a week. Prerequisites: EDFU 3001 and EDFU 3002.
The course aims to raise awareness in the teacher candidate about the philosophy of assessment as part of the educational process. It aims to promote in the student a knowledge of the quantitative and qualitative techniques of evaluation and their uses. Valid and reliable assessment techniques for identifying, stimulating, predicting, and guiding characteristics of student behavior will be analyzed. It shall include appropriate procedures for differentiated and alternate assessment. The organization, presentation and statistical analysis of the data obtained through the measurement instruments and the interpretation of these data to make decisions related to teaching strategies will also be discussed.
EDFU 3015 - Bibliography and reference
Three credits.
Study of the most representative works in all fields of research, including the most well- known sources: encyclopedias, index of printed matter, bibliographies, dictionaries, yearbooks and manuals.
EDFU 3016 - Selection and Evaluation of Library Material
Three credits. Lectures, lectures and laboratory work.
Study of the problems involved in the selection of library material and the various methods used in the selection: bibliographic manuals, guides, catalogues, critical reviews, etc. It also includes the study of the criteria used in the evaluation of such material.

EDFU 3017 Evaluation of Learning
Three credits. Tthree hours of lecture per week. Prerequisites: edfu 3001-3002.

To create consciousness on the part of the student-teacher toward the philosophy of evaluation as a part of the educational process and to promote a knowledge of the quantitative and qualitative techniques of evaluation and their uses. the evaluation techniques will be analyzed, and practice will be offered in the development of valid and reliable evaluation instruments to identify, stimulate, predict and guide the students' behavioral characteristics. this course also includes the organization, presentation and statistical analysis of the results as presented by the evaluation instruments and the interpretation of this data to make intelligent decisions in relation to teaching strategies.

EDFU 3019 Seminar on Personal Development
No credits. Three hours of lecture per week. Prerequisite: permission of the director or coordinator.

This seminar provides experiences on personal growth. In small group meetings the student is led into self-exploration and self-knowledge. It places emphasis on the student's values, attitudes, feelings, beliefs, motivations, and needs, since these have bearing upon his personal and occupational performance. The seminar employs the group-therapy strategy in the process of giving and receiving aid.

EDFU 3020 - Psychology of Reading
Three credits. Three hours of lecture a week. Prerequisite: EDFU 3001, 3002, 3017.

Study of the reading process as an imminently psychological and cognitive one. Analysis of the various models that explain the development and consolidation of the reading process, as well as the psycholinguistic, psychosocial and pedagogical components that interact in the process of learning to read. The course provides for the student to become familiar with the means of assessing reading achievement and visualize the educational implications.

EDFU 3025 - Family Life Education
Three credits.
Importance of the family as a social and educational institution. Discussion of related problems between husband and wife, and between parents and children and the educational and social implications of these problems.

EDFU 3029 - Personal Development Seminar
A credit. Three hours of seminar per week.
Personal development is experienced in small groups, through which the student explores and gets to know themselves. Emphasis is placed on examining the student's value system, attitudes, feelings, beliefs, motivations, and needs considering the significance they have for their personal and occupational functioning. The group counseling method is employed in the process of giving and receiving help.

EDFU 3030 - Peace Education
Three credits. Three hours of lecture a week.
The core concepts, components, and practices of peace education are studied and critically analyzed. Human rights, non-violence, valuing diversity, conflict resolution, disarmament and sustainable development with thematic axes. This course is interdisciplinary in nature and open to students from various faculties. Emphasis is placed on the interrelationship between theory, reflection and action when studying initiatives in this field. It explores the proposals and implications of peace education to pressing social and educational issues globally and in Puerto Rico.

EDFU 3031 - Seminar: Child, Family, Society and Culture I
Three credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: Basic course of general studies.
Interdisciplinary seminar with a focus on field experiences at various socio-economic levels with the child at the center.
EDFU 3032 - Seminar: Child, Family, Society and Culture II Two credits. Three hours of lecture and three hours of lab per week. Prerequisite: EDFU 3031.
Interdisciplinary seminar with a focus on field experiences at various socio-economic levels with the child at the center.
EDFU 3035 - School Discipline
Three credits. Three hours of lecture a week. Prerequisite: Director’s permission.
A broad view of the discipline process and its practical and theoretical applications in the classroom.
EDFU 3036 - Early Childhood Assessment
Three credits. Three hours of discussion a week. Prerequisites: EDFU 3001 or ECDO 3007; EDFU 3002.
This course examines the foundations, methodology, and interpretation of developmental and learning assessment processes at different stages of early childhood. Requires fifteen
(15) hours of field experience.

EDFU 3037 - History of Education in Puerto Rico
Three credits. Three hours of lecture a week.
Analysis of the fundamental changes occurring in Puerto Rico's educational system because of historical events that are summarized in Spanish colonization and the change of sovereignty. The historical ideas, issues, and approaches to these events will be widely discussed.

EDFU 3046 - Health Education in Elementary School
Three credits. Two hours of lecture and one hour of laboratory time per week. Prerequisite: Director’s permission.
Study of the basic content, objectives, organization and implementation of a school health program in elementary school. Requires student participation in laboratory experiences.

EDFU 3050 - Health and Safety in Preschool Education
Two credits. Two hours of lecture and one hour of laboratory time per week.
Emphasis is placed on problem identification, planning, development, and evaluation of health and safety services in early childhood education. Public policy and current regulations are analyzed. A minimum of 15 hours of field experience is required.

EDFU 3055 - Legal Foundations of Education
Three credits. Three hours of lecture and discussion per week.
Legal aspects related to education, educators, learners and the surrounding community are studied and analysed. Two models or schemes of analysis will be used: the normative priority model and the jurisprudential model. The course includes, among others, the following aspects, under the legal approach: the right to education and the constitution of the commonwealth of Puerto Rico compared to the United States, the special education law, the organization chart of the department of education (functions, levels of authority and administrative channels), the basic regulatory rights and duties of teachers and students, the basic civil rights and duties of teachers and students, corporal punishment and school discipline, assaults on teachers, vandalism, drugs, the Children's Act, Act No. 30 (school entry) and the legal implications of AIDS within the school environment.

EDFU 3057 - Critical Thinking and Education
Three credits. Three hours of lecture a week.
Analysis of the theoretical and practical models of critical thinking applied to education.
EDFU 3070 - Biomedical Aspects of Health Education.
Three credits. Three hours of discussion a week. Prerequisite: BIOL 3711- 3712.

Study of the general development of modern diseases and the different levels of prevention. It includes the basic principles of epidemiology, microbiology, parasitology, and immunology; description of the most common communicable and non-communicable diseases; chronic and degenerative diseases and exceptionalities.

EDFU 3075 Aids: education and prevention
Two credits. One hour of lecture, one hour and a half of workshop, and one hour and a half of discussion per week. Analysis of biomedical, psychosocial, ethic-legal and educational aspects of aids. It will follow a multi-disciplinary and inter-disciplinary approach.

EDFU 3087 - Educational Implications for the Study of Women
Three credits. Three hours of lecture a week.
The course discusses the educational implications of the study of women. It aims to model cooperative learning skills and epistemological and axiological models specific to the field of study.
EDFU 3095 - AIDS: education and prevention
Three credits. Three hours of lecture a week.
This course discusses the biomedical, psychosocial, and ethical-legal aspects of acquired immunodeficiency syndrome. It has a multidisciplinary and interdisciplinary approach; It is aimed not only at the traditional university community, but also at the Puerto Rican community and its public and private agencies, entities, and institutions.
EDFU 4001 - Seminar: Child, Family, Society and Culture III Two credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: EDFU 3032.
Interdisciplinary seminar with a focus on field experiences at various socioeconomic levels with the child at the center.
EDFU 4002 - Seminar: Child, Family, Society and Culture IV Three credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: EDFU 4001.

Interdisciplinary seminar with a focus on field experiences at various socioeconomic levels with the child at the center.
EDFU 4003 - Seminar: Child, Family, Society and Culture V
Two credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: EDFU 3031- 3032.
Seminar for special education students with an interdisciplinary approach that discusses issues related to the experiences that these students have visiting schools in different sociocultural environments and agencies and institutions that serve exceptional children.

EDFU 4004 - Seminar: Child, Family, Society and Culture VI Three credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: EDFU 3031- 3032, 4003.
Seminar for special education students with an interdisciplinary approach that discusses issues related to the experiences that these students have visiting schools in different sociocultural environments and agencies and institutions that serve exceptional children.
EDFU 4006 - The Child and His Social Environment
Three credits.
Study of the child and his or her social and cultural context; analysis of social forces and their effect on behavior; the socializing function of the most important agencies and their contribution to the achievement of objectives in education.
EDFU 4007 - Introduction to Educational Research
Three credits. Three hours of lecture a week. Prerequisites: EDFU 3012 or EDFU 3007.
This course analyzes the different positions regarding the theoretical and practical problems of the methodologies used to carry out educational research. Possible problems conducive to carrying out educational research are identified with emphasis on the teacher as researcher, different research methods and techniques used to carry out research in the educational field
are also practiced.
EDFU 4008 - The Role of the Teacher as Counselor
Three credits. Three hours of lecture a week.
It introduces the teacher to the different aspects of the guidance function and provides practical help in the performance of that function in the school. Emphasis will be placed on the following topics: understanding the needs of children and youth, knowledge of recent findings on child and adolescent development, ways of studying students, the dynamics of group interaction, the relationship between guidance and curriculum, opportunities for guidance presented to the teacher in the classroom, in the homeroom and in curricular activities, cooperation with parents to encourage student adjustment and ways to involve all school personnel in a coordinated program of orientation.

EDFU 4009 - Montessori: Alternatives in Education
Three credits. Three hours of lecture a week. Prerequisite: Permission from the department director.
It aims to prepare the future preschool teacher in one of the many educational alternatives: the Montessori system.
EDFU 4015 - Fundamentals of Public Health Education
Three credits. Three hours of lecture a week.
Designed for students to understand the role of education in the development of basic public health concepts and to understand the means used to preserve, enhance, and promote individual and community health. Emphasizes the study and analysis of Puerto Rico's public health problems and the contribution of schools and other agencies to their solution; the educational action necessary for disease prevention, environmental sanitation, nutrition, personal hygiene, dental hygiene, industrial hygiene, safety and first aid, and mental hygiene.

EDFU 4016 - Basic Statistics in Education
Three credits. Three hours of lecture and one hour of lab per week.

Introductory course on the principles of statistics with special emphasis on non-parametric methods. Specially designed to prepare students for a graduate-level course in research techniques in education. It will cover fundamental elements in data collection, notions about possibility, the normal curve, measures of central tendency and dispersion, to give way to the study of the most used non-parametric methods. Laboratory experiences will be provided as an essential part of this course.

EDFU 4017 - Ethics and Education

Three credits. Three hours of lecture a week. Prerequisite: EDFU 4019.

It examines the philosophical foundations of ethics as it relates to the field of education. In it, and following the analytical approach, the following concepts will be studied, among others: value, axiology, morality, autonomy, heteronymy, equality and clarification of values. Concepts and problems of Puerto Rican education will be analyzed from an ethical point of view.

EDFU 4018 - *Puerto Rican Family Issues* and Educational Implications

Three credits. Three hours of lecture a week. Prerequisite: EDFU 3001 and EDFU 3032. Through this course, the student will delve into the historical-social background of the transformation that has occurred in the institution of the Puerto Rican family, from an eminently agricultural society to an industrial society. Topics such as: shared responsibility in parenting, economic emancipation of women, emancipation of children in terms of authority, the generation gap and others will be discussed.

EDFU 4019 - Philosophical Foundations of Education

Three credits.

This course is an introduction to philosophical reflection on education. The purpose is for students to engage in the activity of philosophizing education in a critical and imaginative way. Authors and currents of philosophical thought relevant to education, from Socrates to the present day, are studied. Ontological, epistemological, ethical, and socio-political issues that are intertwined in the theorizing and practicing of education are discussed, considering diverse interpretive perspectives. Educational philosophies, theories, and practices in Puerto Rico and other contexts are analyzed. The course uses various teaching, learning and assessment strategies that stimulate the active participation of students, as well as the reflection, analysis and problematization of the ideas studied.

EDFU 4025 - School Health Education

Three credits

Study of the health problems of the schoolchild; the scope of the global school health programme; healthy school environment, direct health services, and the teaching of knowledge and the development of desirable health habits and attitudes; the teacher's responsibility in the program; the role of health educators in the school and community.

EDFU 4026 - Introduction to Jean Piaget's Cognitive Theory and Its Application to the Classroom

Four credits. Three hours of lecture and one hour of laboratory time per week. Prerequisite: EDFU 3001-3002.

It equates the teacher with knowledge of Jean Piaget's theory, which will help him or her to better design his or her materials for the teaching-learning process.

EDFU 4027 - Group Dynamics Seminar

Three credits. Prerequisite: EDFU 3001-3002, 3007, 4046.

Study of the structure, functioning, interaction and leadership in groups. Special attention will be given to the role of the teacher working with groups of adolescents in diagnosing specific problems of the groups and techniques to help them solve them in a democratic atmosphere.

EDFU 4028 - Aesthetics & Education

Three credits. Three hours of lecture a week. Prerequisite: EDFU 4019.

It introduces the future teacher to the area of aesthetic theories in their intimate relationship with culture and education. The Institute of Puerto Rican Culture will offer hands-on experience by offering seminars and workshops with distinguished Puerto Rican artists.

EDFU 4029 - Educational Psychology: Special Themes and Issues in Child Development

Three credits. Three hours of lecture a week. Prerequisite: EDFU 4002 o 4038 or EDPE 3046. Seminar in which fundamental themes and *issues* of child development are considered, with emphasis on the Puerto Rican child.

EDFU 4035 - Communication and its effects on social behavior

Three credits.

The course attempts to develop in the student a clear concept of the process of human communication; the variables involved in it, the sociological factors that influence and condition its effects, to give the communicator scientific knowledge and mastery of this process. It begins with a study of communication theory and relevant theoretical fields; learning theories, group theory, etc. It continues with a detailed analysis of various communicative vehicles such as the written word, pictorial presentations, photographs and graphics, film, radio and television. Opportunities will be provided for the student to develop skills and understanding concerning the effective use and production of messages through these media.

EDFU 4036 - *Issues,* Problems and Legal Aspects Surrounding Minors in Puerto Rico: Educational Implications

Three credits. Three hours of lecture a week. Prerequisite: A course in sociology and EDFU 3007.

It deals with civil rights and legal issues that affect the child and the teacher.

EDFU 4037 - Logic, Language, and Education

Three credits. Three hours of lecture per week Prerequisite: Be a junior or senior student. Introduction to logic applied to education. Analysis of the logical structure of communication in the classroom.

EDFU 4038 - Educational Implications of Childhood Psychology Three credits. Lectures, readings, discussion, problem study Prerequisite: EDFU 3001-3002 or equivalent.

The psychology of childhood, from birth to adolescence and its application to the problems of the child in school.

EDFU 4039 - Transactional Analysis and Its Application to the Classroom

Three credits. Three hours of lecture a week. Prerequisite: Principal's permission.

This course will teach the theories and techniques of transactional analysis and their usefulness to the teacher in the classroom.

EDFU 4040 - Transactional Analysis in the Classroom - Scripts and Games - Part Two

Three credits. Three hours of lecture a week. Prerequisite: EDFU 4039.

Study and analysis of games and scripts to apply them to better discipline and classroom environment.

EDFU 4045 - Educational Implications of the Psychology of Adolescence

Three credits. Lectures, Readings, Discussion and Study of Problems Prerequisite: EDFU 3001- 3002 or equivalent.

Psychology of adolescence with special attention to practical problems of behavior at home and at school.

EDFU 4046 - Mental Hygiene in School

Three credits. Lectures, readings, demonstrations, theses and investigations.

I am a student

Study of the psychology of human adjustment with special attention to the mental health of the teacher and the child. Emphasis will be placed on preventive and remedial therapy for behavioural problems; the relationship of mental hygiene to the school and community; mental conflicts and personality maladjustments in the teacher and child; understanding human attitudes and behavior; human relations, and mental hygiene.

EDFU 4047 - Sex Education in Elementary and Secondary School

Three credits. Three hours of lecture a week. Prerequisite: EDFU 3025.

It will offer sex education methodology at the elementary and secondary levels with an emphasis on techniques that the future teacher will be able to use to deal with sex problems in society.

EDFU 4048 - Education for Occupations

Three credits. Three hours of lecture a week.

It includes the study and analysis of the concept of education for career education occupations. Emphasis is placed on the ways in which all curricular and guidance activities can be directed to prepare the

individual for economic independence and to an appreciation of the dignity of work. It discusses the diversity of existing occupations and the possible barriers in obtaining the skills and knowledge necessary to enter them and the importance of mastery of basic fields of knowledge for the achievement of a successful working life.

EDFU 4055 - Fundamentals of Environmental Sanitation

Three credits. Three hours of lecture a week.

It includes a global vision of what constitutes environmental sanitation and sanitary control of the environment with a view to preventing the spread of diseases. The areas that compose it are studied, sanitation of the air, water, soil, milk and other public food, insect control and rodents, swimming pools, spas, industrial establishments; the main problems in these areas; effective ways to work on them using existing resources.

EDFU 4056 - Puerto Rican Adolescent Issues

Three credits. Three hours of lecture a week. Prerequisite: EDFU 4045.

Seminar for the Study of the Problems Confronting Puerto Rican Adolescents; analysis of the problems in the different socio-cultural environments and their possible effects on the physical, social and psychological changes that occur at this stage of development; Intensive case study from different socioeconomic levels. Implications for the high school teacher.

EDFU 4057 - Education and Rural Life in Puerto Rico

Three credits.

Research on rural social organization in Puerto Rico to better understand the environment of our rural school. It includes an analysis of research on the subject by specialists and a study of social research techniques. The following issues will be emphasized: the changing structure of rural society, the interrelationship between urban and rural areas, the nature of the rural school curriculum, and plans for the enrichment of rural life.

EDFU 4058 - Educational Implications of Adult Psychology

Three credits. Prerequisite: EDFU 3001-3002.

Study of the psychological principles that explain behavior from the end of adolescence to the age of 60 and beyond. Review of adult education programmes and analysis of the most appropriate methodological resources for teaching.

EDFU 4059 - The Nature of the Culture of Poverty and Its Educational Implications

Three credits. Prerequisite: Be a fourth-year student.

It will cover the general theory of the culture of poverty. The different aspects involved in the economic problems faced by different groups in areas of poverty. It will study aspects such as: cultural change, geographical mobility, population ecology, population growth problems and the impact of these and other problems on the development of that culture.

EDFU 4065 - Society, Economy and Education in Puerto Rico

Three credits.

Study of culture and society in Puerto Rico and its relationship with education. It focuses on the discussion of the following topics: traditional patterns and changing patterns of Puerto Rican culture; socio-economic development and the problems of social change; the political sphere and strategy of educational planning in its historical perspective; valuation problems involved in the regulation of education in Puerto Rico; natural and human resources and the social distribution of the national product, population growth and structure, and educational demand; urbanization and industrialization and educational projections, social class and the distribution of educational opportunities.

EDFU 4066 - Advanced Educational Sociology

Three credits. Readings, reports and discussion.

Advanced Course in the Sociological Foundations of Education: the relationship between education and the following topics is studied: culture, socialization, stratification, control, disorganization, and social change. Human relations in the school and the relationship between the school and the community are also studied. Throughout the course, emphasis will be placed on the implications of these topics for

education in contemporary Puerto Rican culture.

EDFU 4067 - The organization and administration of health education in the school and community
Three credits. Prerequisite: EDFU 3007.
Study of the principles of the organization and administration of health education programs in schools and in the community; factors that promote community development; Administrative structure of agencies involved in different patterns of health services and how these are organized and carried out, how to coordinate programs and services, and the contribution of various types and levels of health workers.
EDIN 3005 - Basic Fundamentals of Vocational Education
Three credits. Three hours of lecture a week.
Analysis of the objectives that govern the function of different types of industrial vocational programs.

EDIN 3006 - Special Methods in Job and Task Analysis
Three credits. Three hours of lecture a week.
Practice in the technique of analysis, determination of the content of the curriculum; Preparation of instruction sheets for the teaching of trades in industrial vocational education.
EDIN 3008 - Working on plastic material
Two credits. Two three-hour lecture and laboratory periods.
Basic course in plastics technology. Analysis of the different processes used in the manufacture of plastic products such as: injection, baking and extraction, among others. It includes the design and manufacture of various plastic products.
EDIN 3009 - General Woodworking
Four credits. Two three-hour workshop periods and one three-hour lecture period per week. Elementary principles of cabinetmaking. The student is instructed in the basic processes of benchwork which includes the use of hand tools. Practice in the construction and use of the most common joints. Interpretation of project drawings; implementation of simple projects; Application of the appropriate methodology and organization of workshop and safety rules.
EDIN 3015 - Technical Drawing
Three credits. Two hours of discussion and four hours of workshop per week.
Fundamental principles of drawing with instruments, for the drawing of mechanical plans. It includes the use of symbols, design and problem solving, as well as the application of geometric principles related to the preparation of simple diagrams to produce parts. The reading and interpretation of plans, designs, diagrams and the application of the computer in the drawing is applied.
EDIN 3016 - General Course in Finishes
Three credits. Two two-hour workshop periods and one two-hour lecture.
Uses of the different classes of finishes and preparation of each class. The use of removers, fillers, varnishes and paint to duco. Finished for commercial and non-commercial purposes.
EDIN 3017 - General Craftsmanship
Three credits. Two hours of lecture and four hours of lab per week.
It provides the student with the basic principles for teaching exceptional children to prepare projects according to their age, intelligence, and abilities. It's about relating academic courses to hands-on activities.
EDIN 3018 - Cabinetmaking I
Four credits. One three-hour conference period and three workshop periods per week. Introduction to the use of machinery in woodworking. Construction of projects that require the use of more advanced joints, in addition to the practice in the use of panels, drawers, doors, etc. Application of correct working methods and favourable conditions that contribute to preventing accidents in the use of machinery.
EDIN 3019 - Introduction to Occupational Training
Two credits. Two hours of lecture per week. Prerequisite: Director’s permission.

This course covers three basic concepts that have broad significance for occupational training. These are: personality, work, and training. Under the first, the future teacher is intended to help his students to know themselves and the importance of certain aspects of personality for the work. In the second, the future teacher must learn to put his students in contact with the world of work including the different occupations, employment opportunities, requirements and qualifications, future prospects, human relations at work, trade unionism and accident prevention. The third aims to enable teachers to guide their students in making occupational decisions and how to prepare them properly for work.

EDIN 3020 - Introduction to the Study of Technology

Three credits. Two hours of lecture and four hours of laboratory time per week.

Introduction to the study of technology and its implications for human beings. This course is designed to develop in students the competencies and attitudes necessary to understand the nature of technology. It includes understanding, analyzing, and discussing the changes brought about by technologies in human history. The concepts, functions and modern practices of technological advances are studied, as well as the creation of instruments and machines for the improvement of human coexistence. Students must design technology instrumentation concepts while simulating possible tools for the future.

EDIN 3025 - Introduction to Occupation Technology Two credits. Three hours of lecture a week. Prerequisite: Director's permission.

Study of the evolution of technology and its relationship with science and industry. Analysis of the basic elements of technology such as: the machine, the materials, the raw material conversion processes and the energy sources. Emphasis is placed on the role of information in technology, including storage and processing of data and statistics, and the components of communication. It studies the relationship between man and machine including the design, construction, operation, maintenance of machines and how to prepare and use the human element effectively.

EDIN 3026 - Ceramics

Two credits. One hour of lecture and three hours of laboratory time per week. Laboratory and deposit fees are waived.

Study of the processes of hand molding, shaping and turning on the potter's wheel and the essential techniques for decorating, glazing and baking the items produced. Special attention is given to works in the country's clay.

EDIN 3027 - Leather embossing

Three credits. Two three-hour lecture periods in combination with laboratory work.

Instruction in designing, cutting, printing, carving, etc., of leathers. Suggested projects: wallets, keychains, straps, ornaments, etc.

EDIN 3029 - Cooperative Occupational Training Programs

Three credits. Three hours of lecture a week. Prerequisite: EDIN 3005 and EDIN 3006. Organization, administration, and evaluation of a cooperative occupational training program. EDIN 4005 - Evaluation in Industrial Vocational Education

Three credits. Three hours of lecture a week.

Designed to develop knowledge of the close relationship between scientific educational assessment and effective teaching in industrial vocational education. The content of the course includes the teaching of the essential principles of psychometrics applied to workshop courses; the construction, administration, interpretation and application of tests of achievement, execution and industrial vocational aptitude in the classroom; the organization and presentation of evaluative data; and the conversion of numerical scores or assessments to standard grades used in the Puerto Rico school system.

EDIN 4006 - Labour Relations

Three credits. Three hours of lecture a week.

Development of the workers' movement. Organized labor and its relations with industry and school. Labor-management relations. Knowledge of labor-management legislation and its applications in Puerto Rico.

EDIN 4007 - Metal Technology
Three credits. Two hours of lecture and two hours of laboratory time per week.
Fundamental principles of metallurgy and metallography. Laboratory techniques and practical work in: Dimensional metrology, laminated metal, work with hand tools, planting, casting and metal modeling. General work of forging, welding and technical treatment of metal. Elementary techniques and practices in machines for cutting and shaping metal. General principles of metal design, polishing and finishing of metal surfaces.

EDIN 4008 Graphic Arts
Four credits. Two hours of lecture and six of laboratory work.
Includes the fundamentals of linoleum printing, celluloid and copper etching, silk-screen procedures, bookbending, hand and press composition and photography.

EDIN 4009 General Electricity
Four credits. Six hours of workshop and two hours of lecture per week.

Essentials of electricity, including fundamental units: ohm's law, conductors and insulators, primary and secondary cells, simple electrical measurements series and multiple circuits for signaling, light and heat; interior wiring systems; wire calculations. Also fundamental principles of direct and alternating current, direct current, machines and apparatus and the national electrical code.

EDIN 4015 - Work in weaving with fibres, straws and vines
Three credits. One hour of lecture and four hours of lab per week.
Elementary course of weaving work using native materials. Pulping and preparation in native fibers and straws such as: cattail, rush, skin, bud. Use of dyes. Furniture straw wrapping, weaving the backs of chairs, armchairs, etc. Using straw, rope, reed and cattail. Creation of different designs to knit. Study and application of the color wheel.
EDIN 4016 - Architectural Drawing
Two credits. Two two-hour drawing periods per week. Laboratory fees are waived.
Short course on the principles and essential characteristics of architectural drawing. Building elements, conventional symbols, details, specifications, etc. Each student will prepare a set of plans showing plan, elevation, roofs, materials, sanitary and electrical installations and auxiliary details.
EDIN 4018 - Advanced Graphic Arts
Two credits. A four-hour lecture and lab period per week. Laboratory fees are waived. Fundamental principles of the basic methods and procedures of photolithography and their applications to the offset printing method.

EDIN 4019 - Construction Technology
Three credits. Two hours of lecture and two hours of lab per week. Prerequisite: EDIN 3009, EDIN 3018.
A study of the world of construction that provides experience to learn and apply the basic knowledge and skills of the construction industry. Readings, lectures and discussions of the practices and skills required for a construction. Construction concepts are carried out in laboratories to test the knowledge acquired.
The world of construction is divided into three stages:
1) introduction, 2) analysis of production, management and personnel, 3) synthesis of construction practices and planning regulations.
EDIN 4020 - Electrical Systems Technology
Three credits. Two hours of discussion and four hours of lab per week.
Study of scientific and technological concepts related to the production, control and use of electrical energy. It includes the application of laws and principles of electricity, magnetism, electric current, circuits, and measurement. Requires laboratory experience.
EDIN 4025 - Introduction to Electronics

Three credits. Two hours of lecture and four hours of lab per week Prerequisite: EDIN 4009. Introduction to the study of electronics and its application to modern life. It deals with the laws and formulas for the principles of electromagnetism, inductive reactance, capacitive reactance, and the analysis of alternating and direct current circuits with resistive, inductive, capacitive elements in series, parallel, and parallel series in resonance. The study of basic symbols used in electronics and the use of them in schematic diagrams. Reading and using measuring instruments to determine and correct faults in electronic circuits. Laboratory work will emphasize experimentation and problem solving.
EDIN 4026 - Individualized Instruction and Module Preparation
Three credits. Three hours of lecture a week. Prerequisite: Be a teacher in vocational service.

Course to prepare teachers of industrial vocational education in the understanding and use of resources and materials, teaching techniques and assessment instruments applicable to this field.
Special emphasis is placed on the use of the system of individualized instruction through training modules, as well as the instruments used with this system by the vocational and technical and high-skill instruction program. As the main vehicle in the teaching of this course, 16 teacher training modules are used at the same time, offering specific guidance on the application of the individualized instruction system for the training of students in industrial and service occupations.
EDIN 4027 - Advanced Electronics Course
Three credits. Two hours of lecture and four hours of lab per week. Prerequisite: EDIN 4025. Advanced electronics concepts. Multivibrators. Voltage regulators. Transmission lines and antennas. Television circuits. Radar and microwaves. Circuit design and analysis.
Semiconductors and transistor circuits. Digital computers. Gaseous tubes. Photoelectric circuits. Industrial electronics.
EDIN 4028 - Manufacturing Technology
Three credits. One hour of lecture and four hours of lab per week. Prerequisite: Have a high school diploma.
It trains Master of Industrial Arts in the basic concepts and methods of an organized system of manufacture. It includes simulating the mass production of an item in an industrial arts lab. The aspects of management, personnel, raw materials, production planning, production processes, distribution and service of products as they are developed in an industrial plant or factory are studied. Other activities include role-playing in simulated situations and laboratory experiences in the design, materials study, development, and production of consumer items.

EDIN 4029 - Organization and Administration of Workshops
Three credits: Three hours of lecture per week.
Students are given the opportunity to discuss issues concerning the organization and management of workshops. Distribution of space: natural light, artificial light and ventilation. Equipment, materials, inventories, requisitions, records, and reports. Safety rules and fundamental principles to avoid accidents, fires, with application to industrial vocational education.
EDIN 4035 - Industrial Safety and Occupational Health
Three credits. Three hours of lecture a week. Prerequisite: EDIN 3005 and EDIN 4029. Discussion and analysis of the basic principles related to industrial safety and occupational health and their relationship to the teaching of industrial vocational education.
EDIN 4045 - Art and Design Applied to the Industrial Arts Two credits. One hour of lecture and three hours of laboratory time per week. Laboratory fees are waived. Prerequisite: EDIN 3015.
It covers the application of art and design principles related to workshop courses included in the industrial arts curriculum. Practice of mechanical drawing, *free-hand sketching.*
Design theory, principles, and application of colors to drawing. Conferences. EDIN 4046 - General Metal Work
Four credits. Eight hours of workshop work per week.
Analysis of the different aspects of the metallurgical industry. An introduction to the various methods by

which ore is processed such as tinsmithing, smelting and welding processes (oxyacetylene, arc, mig and tic). Design and manufacture of various metal products.

EDIN 4049 - Graphic Communication Technology

Three credits. Two hours of lecture and four hours of lab per week. Prerequisite: EDIN 3020. Theory and practice of the principles of graphic communication, history, development and evolution of the methods and techniques used for the production of graphic information. It includes technology of compositing, photography, screen printing, lithography and engraving, binding and finishing of products related to the reproduction, storage and distribution of printed materials.

EDIN 4055 - Construction Drawing I

Three credits. Two hours of lecture and four hours of lab per week. Prerequisite: EDIN 3015, 4045 and 4016.

Principles in technical drawing for draughtsmen. Study and practice on projection theory, applied geometry, orthographic drawing, surface development, intersection of solids, pictorial drawing, and freehand drawing in order to develop skills in the technique of preparing construction sketches and drawings used in industry.

EDIN 4059 - Force Technology

Three credits. Two hours of lecture and four hours of laboratory time per week. Prerequisite: Director's permission.

Introduction to the study of force technology. Analysis of force production as the main element that moves modern industrial technology. Methods used by man to convert different types of energy into useful force. Emphasis on the current energy crisis and the need to look for alternatives.

EDIN 4065 - Curriculum and Methodology for Teaching Industrial Vocational Education to the Exceptional Adolescent

Three credits. Three hours of lecture a week. Prerequisite: EDES 3027, EDES 4006.

Study of curricular modifications and appropriate teaching strategies to cater for the exceptional adolescent in the industrial vocational education program.

EDIN 4085 - Curriculum and Methodology for Teaching Industrial Arts to the Exceptional Adolescent

Three credits. Three hours of lecture a week. Prerequisite: EDES 3027, EDES 4006, Director's Permission.

Study of curricular modifications and appropriate teaching strategies to cater to the exceptional adolescent in the industrial arts program.

EDIN 4095 - Using the Computer for CAD-CNC Design and Numerical Control

Three credits. Two hours of lecture and four hours of workshop per week. Prerequisite: EDIN 3015.

Study and analysis of the application of microcomputers to design and control machines numerically.

EDIN 4105 - Conveyor System Technology

Three credits. Two hours of discussion and four hours of lab time per week. Prerequisite: EDIN 3020. The study of transportation systems designed and used by humans to move and transport people, animals, and objects over the surface of the earth, seas, air, and space. It includes the evolution of such systems, technology systems, social impact, and problem solving. Requires laboratory experiences.

EDIN 4106 - Design and Evaluation of Training Programs

Three credits. Three hours of lecture a week. Prerequisite: EDIN 3006.

Study of the fundamentals of the curriculum and the different models applied to the design of occupational technical programs. The course is aimed at in-service teachers and future occupational education teachers with the purpose of training them to design specialized curricula for technical training in vocational schools and technological institutes. Participants will analyze the characteristics of the occupational and technical curriculum and, once designed, they will implement them in a real scenario.

EDPE 3001 - Linguistic notions, methodology and content of mother tongue teaching in elementary school.

Two credits. Three hours of lecture and one hour of laboratory time per week. Prerequisite: Director's permission.

Language themes, content, and methodology of all language arts: listening, speaking, reading, writing, pictorial appreciation, and creation.
EDPE 3002 - Linguistic notions, methodology and content of mother tongue teaching in elementary school
Two credits. Three hours of lecture and one hour of laboratory time per week. Prerequisite: Director's permission.
Language themes, content, and methodology of all language arts: listening, speaking, reading, writing, pictorial appreciation, and creation.
EDPE 3003 - Teaching Language Arts in Elementary School

Three credits. Three hours of lecture and discussion per week. Prerequisite: ESPA 3101-3102. The Vernacular as a Learning Tool in the Elementary School Curriculum: The Nature of the Linguistic Process; the importance and function of the vernacular as an instrument of communication and expression, the relationship between the process of human development and growth and the development of language skills; the arts of language in the total curriculum, the program of progressive teaching of the vernacular in its phases of hearing, speaking, reading and writing; techniques, teaching materials and other resources that can be used in the development of fundamental language skills.

EDPE 3004 - Diagnosis and Correction of Reading and Writing Deficiencies

Two credits. Three hours of lecture and discussion per week. Prerequisite: EDPE 3031-3032. Study of reading and writing difficulties in elementary school with emphasis on the means of diagnosing and correcting them. Discussion of available techniques and tests. It requires field experiences.
EDPE 3006 - Teaching Social Studies in Elementary School

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisite: Director's permission.
Diagnosis of needs, formulation of objectives, selection of content and planning of units in the area of social studies; curriculum design, teaching methods and practices, planning and assessment, as well as the use of community resources. Laboratory experience is required. Face-to-face, hybrid and online course.

EDPE 3007 Linguistic Notions of Content and Methods for the Teaching of Spanish in the Elementary School
Two credits. Three hours of lecture and one of laboratory work per week.
Prerequisites: authorization of the director
Theories of language content of methodology of all the language arts. Listening, talking, writing, pictorial appreciation and creation.

EDPE 3010 Teaching Social Studies Fourth-sixth
Three credits. Three hours of lecture and discussion per week. Prerequisites: CISO 3121, CISO 3122 and EDFU 3007

This course is a compulsory course for all students in the elementary school program. The course aims to offer to the future teacher relevant skills related to this area. there will be particular attention to the concepts and generalizations that nourish the contents of social studies which have been derived from the broad field of knowledge in the social sciences, history, geography, sociology, anthropology, psychology, science, politics and economics. The curriculum of elementary school social studies will be analyzed.

EDPE 3011 - Teaching Mathematics at the Elementary Level: K-3 Three credits. Three hours of lecture and one hour of laboratory time per week. Prerequisites: Pass the corresponding course in the area of mathematical logical

reasoning according to the student's major. Some of these courses may be: MATE 3001, MATE 3036 or MATE 3041 or MATE 3171.
Methodology and basic content of mathematics in elementary school, grades k-3. Emphasis is placed on the mathematical content that future teachers need to teach this discipline, problem solving, and the integration of technology to teach this subject. The recommendations offered by different professional organizations on the teaching of this discipline are studied and documents related to this subject are analyzed. Also, the student is related to the professional literature related to the teaching of mathematics. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 3012 - Teaching Mathematics in Grades 4-6

Three credits. Three hours of lecture and one hour of laboratory time per week. Prerequisites: Pass the corresponding course in mathematical logical reasoning according to the student's major. Some of these courses may be: MATE 3001, or MATE 3036, or MATE 3041, or MATE 3171.
Methodology and basic content of mathematics in elementary school, grades k-3. Emphasis is placed on the mathematical content that future teachers need to teach this discipline, problem solving, and the integration of technology to teach this subject. The recommendations offered by different professional organizations on the teaching of this discipline are studied and documents related to this subject are analyzed. Also, the student is related to professional literature related to the teaching of mathematics. This course will be offered in face-to-face, distance, hybrid, distance and online modalities.

EDPE 3013 - Teaching the Mother Tongue in Elementary School

Three credits. Three hours of discussion a week.
Analysis of the structure of the linguistic system as a conceptual framework to promote the development of language and thought. The content, methodology and materials for the teaching of the mother tongue at the elementary level with emphasis on the oral language are studied. It requires field experience. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 3017 - Teaching Music in Elementary School

Three credits. Three hours of lecture a week. Prerequisite: fifteen credits in music or equivalent. The study of music in relation to the physical, intellectual, social and cultural development of the individual; its importance in the school curriculum and in the life of the community. Presentation of instructional materials used in the teaching of the various aspects that make up the music education program (songs, listening experiences, rhythmic experiences, folk dances, musical instruments, still sights, movies, etc.). The fundamental and theoretical elements presented as an effective means to reach a better understanding of the art of music.

EDPE 3018 - Teaching English as a Second Language

Three credits. Three hours of lecture a week.
Analysis and discussion of the nature and functions of a language; discussion of the phonological, morphological, and syntactic characteristics of English spoken in the United States and the essential differences that exist with Spanish spoken in Puerto Rico; understanding of the principles underlying the teaching of a foreign language; analysis of the problems involved in teaching English to Puerto Ricans; specific methods; examination of texts used in the Puerto Rican school system and their adaptation and enrichment; Formulate plans to guide and assess the learning of English as a second language. It involves observation in elementary school.

EDPE 3020 - Music and Body Movement in the Primary Grades

Three credits. Three hours of discussion a week.
Integration of music and body movement as fundamental elements for the physical/motor, cognitive, affective, social and cultural development of primary level learners in the regular, special or integrated stream. Emphasis on planning, execution, and evaluation of psychomotor and rhythmic activities. It requires demonstration and practice.

EDPE 3025 - Remedial Course on Basic Written Language Skills with an Emphasis on Spelling

Two credits. Three hours of lab time a week. Prerequisite: The student will be referred by a professor after being evaluated.
It aims to strengthen basic skills in written language with an emphasis on the importance and use of

spelling rules. As it is a remedial course, it will serve students of both levels, elementary and higher.
EDPE 3026 - Science in High School
Three credits. Two hours of lecture and two hours of laboratory time per week.
This course builds on the science curriculum content in high school, especially in the middle grades. It aims for the student teacher to relate to and use the processes of science (observation, relationships of space and time, prediction, measurement, inference, etc.) integrating them into the study and analysis of laboratory exercises in the different areas of science. The exercises that are selected for study and analysis come from the programs in force in the school system and from any other innovative programs in this field.
EDPE 3030 - Read and Write: Basic Processes
Three credits. Three hours of discussion and field experience per week.
Analysis and study of the principles that serve as the basis for the development of the literacy process in elementary school students. Development of competencies that allow the student to know and critically apply educational approaches, methods, techniques and strategies to teach reading and writing.
EDPE 3031 - Teaching Reading and Writing at the Preschool and Primary Level
Two credits. Two hours of lecture per week. Prerequisite: EDPE 3002.
The principles that underpin the process of teaching and learning reading and writing are discussed. Requires clinical experiences in using methods and techniques to teach a read and write.

EDPE 3032 - Teaching Reading and Writing from 4th to 6th Grade
Two credits. Two hours of lecture per week. Prerequisite: EDPE 3002.
The principles that underpin the process of teaching and learning reading and writing are discussed. Requires clinical experiences in using methods and techniques to teach a read and write.

EDPE 3034 - Assessment and Diagnosis in the Literacy Process
Three credits. Three hours of lecture a week.
Study and analysis of the various factors involved in learning to read and write in relation to the evaluation and evaluation of the diagnosis; support for the reading and writing processes, and the prevention of difficulties. Discussion of the strategies, executions, behaviors, and instruments that strengthen the validity and reliability of the process and product of assessment and teaching, its authentic, continuous, holistic, analytical, and functional character. This course will be offered in face-to-face, hybrid, distance and online modalities.
EDPE 3038 - Design for Art Teachers
Three credits. Four hours of lab time a week. Prerequisite: ARTE 3127 or be enrolled in ARTE 3127.
Study of design with appropriate structures and materials that are used in the different grades of elementary and high school. Emphasis on the role of the basic elements of design in the visual arts program of Puerto Rico's schools.
EDPE 3039 - The Arts at the Preschool and Elementary Level
Three credits. Three hours of lecture and discussion per week.
Study of the contribution of the visual arts and music to the integral development of the child. Analysis of the influence they exert on the development of their creative power and on the process of socialization. Emphasis on the selection of materials in tune with the different levels of development in the students. Study of the means used to bring children into contact with these arts.
EDPE 3040 - Theatrical Techniques in Elementary School
Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week.

Study of the different forms of theatrical manifestation and their application in the teaching- learning process in elementary school.
EDPE 3045 - Fine Arts in Elementary School

Three credits. Three hours of lecture a week.
The different stages of the child's artistic development, practices in various techniques of artistic expression, teaching methodology and ways of evaluating the child's work.
EDPE 3046 - Fine Arts in High School
Three credits. Three hours of lecture a week.
Study and discussion on the artistic development of the adolescent, methodology of teaching the visual arts, experimentation and practice with various artistic materials, evaluation of the student's work and ways of presenting exhibitions.
EDPE 3047 - Elementary School Dramatic Creativity Seminar
Six credits. Three hours of lecture and discussion and three hours of workshop per week. Study and analysis of drama as a vehicle for teaching the humanities, the arts and theatre. In addition, there will be demonstrations and dramatic exercises, choral recitation, storytelling technique, and the improvised preparation of studied scenery, props, and costumes; Subsequently, there will be analysis and discussion of such practices. This seminar will be led by a specialist in dramatic creation and two teaching assistants working as a team.
EDPE 3048 - Integrated Course in Chemistry and Physics at the Elementary Level
Three credits. Two hours of lecture and one hour of lab per week.
The course addresses the integrated contents, principles, and concepts of chemistry and physics for the elementary level. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 3049 - Kindergarten in the School Program
Three credits. Three hours of lecture and discussion per week.
It offers a global vision of the education of preschool children: the suggested curriculum for their personal and academic preparation and the mastery of the essential skills that facilitate their management and the satisfaction of their needs. It consists of lectures, discussions, preparation of material and observation of classes at this school level. It also includes the study of the most significant works in this field. Face-to-face, hybrid and online course.
EDPE 3050 - Plastic and Theatrical Arts in Primary Grades
Three credits. Three hours of discussion a week.
Study and analysis of the strategies, skills and knowledge of the teaching of plastic arts at the primary level. It offers the opportunity to select, develop, explore, experiment and evaluate creative activities related to these arts.
EDPE 3051 - Teaching Biology to Middle School Teachers I
Four credits. Three hours of lecture a week.
Biology curricular content that is included in seventh-grade science education. Emphasis is also placed on methods and techniques, as well as the processes inherent in science education. By its very nature, this course frequently exposes the student to laboratory experiences.
EDPE 3052 - Teaching Biology to Middle School Teachers II
Four credits. Three hours of lecture a week. Prerequisite: EDPE 3051.

Biology curriculum content that is included in seventh-grade science education. Emphasis is also placed on methods and techniques, as well as the processes inherent in science education. By its very nature, this course frequently exposes the student to
laboratory experience.
EDPE 3055 - Introduction to Children's Literature
Two credits. Two hours of lecture per week. Prerequisite: EDPE 3001, 3007.

It studies the value of the word in its multiple meanings, from the practical of communication to the most refined levels of literary creation in the light of the reality of the Puerto Rican child.
EDPE 3056 - Perceptual motor development through body movement at the primary level
Two credits. Two hours of lecture and one hour of laboratory time per week. Prerequisite: Director’s

permission.
It allows the student to develop skills to organize, select, direct, execute, and evaluate movement activities that stimulate the perceptual motor development of the elementary level child.
EDPE 3058 - Teaching Grammar at the Elementary Level
Three credits. Three hours of lecture a week.
The teaching of Spanish grammar through a systematic organization in close connection with language arts and student development. This course is offered in face-to-face, hybrid and online modalities.

EDPE 3060 - Literacy Development at the Elementary Level (K-3)
Three credits. Three hours of discussion a week. Prerequisite: EDPE 3002.
Analysis of the principles that underpin the development of literacy processes at the primary level. It fosters the development of skills necessary to implement various modes, approaches, methods and techniques for teaching reading and writing. It requires field experience. Face-to- face, hybrid, distance learning and online course.
EDPE 3061 - Teaching Physical Science to Middle School Teachers
Four credits. Four hours of lecture per week.
Curricular content of the physical sciences implemented in the teaching of this subject in middle school. Emphasis is placed on the methods and techniques for teaching science and the current curriculum in public and private middle schools is analyzed.
EDPE 3062 - Teaching Physical Science to Middle School Teachers

Four credits. Four lecture hours per week Prerequisite: EDPE 3061 approved.
Curricular content of the physical sciences implemented in the teaching of this subject in middle school. Emphasis is placed on the methods and techniques for teaching science and the current curriculum in public and private middle schools is analyzed.
EDPE 3067 - Language Development in Preschool Children
Three credits. Three hours of lecture a week.
Study of oral and written language as an integrated process of development from birth to four years of age. Design of activities that stimulate oral and written language. Analysis of techniques for selecting, adapting and producing materials. This course is offered in face-to-face, hybrid and online modalities.

EDPE 3068 - Introduction to the *Montessori Method*
Three credits. Three hours of lecture a week.
I study, through lectures and workshops, the philosophy and methodology of *Montessori.*

EDPE 3069 - Science Teaching at the Elementary Level: K-3
Three credits. Three hours of lecture a week.
Study of the nature of science with emphasis on its attributes, content, methodology, and values. Appropriate practices for science learning at the K-3 level are modeled and analyzed, and appropriate *assessment* techniques and instruments for that level are discussed. Requires additional hours for field experience. This course will be offered in face-to-face, hybrid, distance and online modalities.
EDPE 3070 - Literacy Development in Grades 4-6
Three credits. Three hours of discussion a week. Prerequisites: EDPE 3013, EDPE 3060.
Analysis of the fundamental principles and methodologies in the processes of teaching and learning literacy in grades four to six. Practical experience is required in the use of appropriate methods, materials and activities for teaching reading and writing at these levels. This course will be offered in face-to-face, hybrid, distance and online modalities.
EDPE 3075 - Curriculum and Methodology in the Teaching of Socioeconomic Subjects for Accounting and Marketing
Three credits. Three hours of lecture a week. Prerequisites: 75% of the courses in the specialty; EDPE 4050, FAED 4001, FAED 4002.

Generic course for future masters in the areas of accounting and marketing. Planning, writing objectives, development of critical thinking, *assessment techniques,* teaching strategies, learning principles and methodology will be discussed. Students will apply all these concepts to
their particular area of specialty. A minimum of 20 hours of field experience is required.
EDPE 3086 - Systematic Approach to Laboratory Experiences in Business Education

Three credits. One hour of lecture and two hours of laboratory per week. Prerequisite: EDPE 4047, EDPE 4048, or EDPE 4049.
Systematic Focus on Laboratory Experiences in Business Education Three Credits. One hour of lecture and two hours of laboratory per week. Prerequisite: EDPE 4047, EDPE 4048, or EDPE 4049. Systematic focus on business education laboratory experiences in public or private schools, secondary and post-secondary level. The student becomes familiar with the school, physical facilities, services, and laboratories of a business education program. In addition, it participates in activities related to classroom administration, systematic observation, and active and gradual participation in the teaching-learning process. This course requires field experiences.
EDPE 3105 - The Teaching and Use of the Metric System
Three credits. Two hours of lecture and two hours of lab per week.
The measurements of the metric system and its use in the various educational, scientific and daily living spheres. Interdisciplinary and workshop approach with extensive use of technological resources.

EDPE 3106 - Teaching Statistics and Probability at the Elementary Level Three credits. Three hours of lecture a week. Prerequisites: EDPE 3012 or EDPE 3011.
The course will provide future elementary level mathematics teachers with the opportunity to learn about some topics related to the content that includes the teaching of statistics and probability. In addition, discussion of activities that can be used to teach the concepts related to this material will be integrated. This will enable them to teach this content in their professional practice. In addition, it will provide alternatives for the use of technological and manipulative tools for the development of concepts. It will also enable them to integrate them into the math classes they will teach. This course will be offered in face-to-face, hybrid, distance and online modalities.
EDPE 3117 - Workshop for the Preparation of Educational Materials in the Teaching of Mathematics in Elementary School *Three credits. Three hours of lecture a week.*
Seminar-workshop for the design, preparation and creation of educational materials that facilitate
the teaching of mathematics in elementary school. Students will use their creativity to turn low-cost or disposable materials into teaching tools. Evaluation of available educational materials, analysis and demonstration of different strategies and resources that at a commercial level the teacher can use to enrich a mathematics class, such as: instructional modules, games, differentiated tasks, bulletin board, computer programs and application of mathematics to daily life.
EDPE 3118 - Geometry and Measurement for Educators
Three credits. Three hours of lecture a week.
The course emphasizes the following topics: how the child learns mathematics, learning processes in mathematics, basic Euclidean ideas, two- and three-dimensional figures, polygons, circle, similarities, congruences, transformations, area, perimeter, volume, system of measurements.
Different strategies are used to integrate mathematical content with the methodology of teaching geometry and measurement at the elementary level. The strategies, models, and activities presented in the course are based on the results of research in the field, the recommendations of professional organizations, and the curricular standards for the teaching of mathematics presented by the National Council of Teachers of Mathematics and the Puerto Rico Department of Education. This course will be offered in the face-to-face modalities, hybrid, remote and online.
EDPE 3119 - Algebra Concepts for Elementary Level Educators
Three credits. Three hours of lecture a week.
The major emphasis of the course is on the study of the following topics: learning mathematics, problem

solving, sets, numeracy, integers, number theory, rational numbers, real numbers, graphs, and functions. Teaching methodology will be one of the main components of the course. Methodological applications will be incorporated into class discussions. Problem-solving strategies will be given prominence across all topics. Different technological tools will be used to teach algebraic concepts. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 3120 - Teaching Geometry to Talented Students at the High School Level

Three credits. Three hours of lecture and discussion per week.
It will emphasize the content and methodology of geometry, the method of discovery, the laboratory, and problem solving. Geometry-related curricular content from middle school to high school is identified and analyzed.
EDPE 3127 - Scientific research with a pedagogical approach *Three credits. An hour and a half of lecture and an hour and a half of workshop per week. Prerequisite: EDPE 3026.* Designed for prospective teachers who specialize in the area of science education. It requires the planning and development of a research project in the area of physical sciences or biological sciences. The method used in scientific research will be considered in detail as a component of the task of teaching science in elementary and secondary schools.
EDPE 3129 - The Use of Microcomputers in the Classroom
Three credits. Three hours of lecture a week.
Introductory course on the place of the microcomputer in the classroom. Special importance will be given to the use of the microcomputer in the school environment, resources available to the teacher, as well as the ways of integrating computers into the teaching process. Class discussions will be complemented by workshop experiences and special assignments.
EDPE 3135 - General Science for Elementary School Teachers
Two credits. Two hours of discussion a week.
Study of the basic integrated concepts of biology, physical sciences, earth sciences, and space sciences for elementary level teachers (k-3). Scientific concepts are developed using the corresponding methodology with emphasis on the method of inquiry and on basic and integrated processes. It requires field experience.
EDPE 3145 - Music in Early Childhood and Preschool
Three credits. Three hours of discussion a week.
Organization, development and evaluation of musical activities that facilitate the integral development of infants and preschool children. Management of systems for the selection, creation and evaluation of musical activities. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 3155 - The Development of Thinking Skills in Social Studies

Three credits. Three hours of discussion a week.
Study and analysis of the methodology that promotes the development of thinking skills in social studies in elementary and middle school students. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 3205 - Educational Intervention Focused on Individual Needs

Two credits. Two hours of discussion a week.
Analysis and study of approaches, models, methodology and development of educational techniques to individualize teaching and learning according to the particular needs of students. It requires field experience.
EDPE 3215 - Role of the Adult Educator
Three credits. Three hours of discussion a week.

Study and critical analysis of the functions of adult educators. Emphasis on the competencies and characteristics that the adult educator must possess in order to carry out these functions in the various adult education programs. Requires field experience outside of school hours.
EDPE 3235 - Methodology for Teaching Literary Genres and Thinking Skills
Three credits. Three hours of lecture a week.
Analysis of the phenomenon of comprehension and the internal mechanisms of reading literary genres within the teaching-learning process. They are studied as mediators between the text and the development of thinking skills.
EDPE 3236 - Nature of Science for Elementary Level Teachers (4th-6th. Grade)

Three credits. Three hours of lecture a week.
Study of the nature of science as a discipline with emphasis on its attributes, content, methodology and values. An analysis of the relationship between science, technology and society is carried out. The student will relate to scientific research and visit scenarios where they are being carried out. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 3237 - Science Teaching at the Elementary Level
Three credits. Three hours of lecture a week.
Study of the importance, approaches, trajectory of science education, the implications for its teaching and learning at the elementary level. Emphasis is placed on the analysis and application of methodologies that promote the development of scientific culture. It includes the study of public policy, new trends and controversies related to science education. The student will be related to the pedagogical research of science education and will carry out field experience.

This course will be offered in face-to-face, hybrid and online modalities. EDPE 4001 - Elementary School Teaching Theory and Methodology I
Three credits. Three hours of lecture a week.
It includes the philosophy and objectives of education and the study of the Puerto Rican educational system, the elementary school curriculum, and the aspects of child health that every teacher should know in order to better understand and direct the child in his or her self-learning. It also includes the general aspects of the organization and methodology of teaching. Students participate in a series of specially designed observations in public schools.
EDPE 4002 - Theory and Methodology of Elementary School Teaching II

Three credits. Three hours of lecture a week.
The specific methodology of the curricular area in which each student specializes is studied. The study is based on the curricula of these disciplines in force in the education system and on innovations in these curricular areas. Students participate in a range of clinical activities in public and private schools.
EDPE 4007 - Children's Literature
Three credits. Three hours of lecture and discussion per week.
Developmental and critical study of literary contents and forms for children from 3 to 12 years of age, from the oldest folkloric forms to the modern ones; critical selection of a representative anthology of literature for children in elementary school and in the Puerto Rican environment; problems and study and laboratory projects including the production of creative literary work; readings, reports, practical observations, discussions, and demonstrations in the effective use of children's literature. This course will be offered in face-to- face, hybrid, distance and online modalities.

EDPE 4008 - Teaching Reading in Elementary School
Three credits. Three hours of lecture a week.
Study of child development and reading; linguistic, psychological, sociological, philosophical and

methodological principles that serve as foundations for the development of the process of learning to read. Different approaches to teaching reading: basic, linguistic, use of children's experiences, individualized reading, and the blended approach. Means in the organization of teaching: grouping, individualization; programming and others, to cater to individual differences. Selection, preparation, adaptation and use of reading materials. Means of evaluating and correcting reading deficiencies.

EDPE 4010 - Teaching Written Speech in Elementary School Three credits. An hour and a half of discussion and an hour and a half of workshop per week.

This course studies and discusses the theoretical principles, strategies, and methodology for teaching written discourse at the K-6 levels. The course, aimed at future elementary school teachers, is a hands-on approach to writing as a process, its components and stages. From a critical and practical perspective, we will work with theoretical and literary texts for the construction of various written discourses and the design of pedagogical planning that shows the use of appropriate strategies and techniques in the teaching of the writing process. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 4011 - The Primary Level Curriculum

Three credits. Three hours of lecture a week. Prerequisite: EDFU 3032.

Study of the basic principles of the primary level curriculum and innovative teaching practices. It emphasizes the integration of knowledge and the importance of play, experimentation, and problem-solving in the curricular content of the primary level.

EDPE 4012 - The Primary Level Curriculum

Three credits. Three hours of lecture a week. Prerequisite: EDFU 3032, EDPE 4011.

Study of the basic principles of the primary level curriculum and innovative teaching practices. It emphasizes the integration of knowledge and the importance of play, experimentation, and problem-solving in the curricular content of the primary level.

EDPE 4016 - Teaching Practice in the Teaching of Elementary English

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.

The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the students. The student attends four hours a day at the assigned school or weekly at the university as appropriate.

EDPE 4017 - Integration of Spanish Writing Abbreviated Systems

Three credits. Three hours of lecture a week. Prerequisites: ESPA 3102.

The Spanish Writing Abbreviated Systems Integration course provides a combination of learning several abbreviated systems (currently, Spanish shorthand and speed writing). It trains the student-teacher in the development of the skills necessary to take dictation and transcribe in Spanish. The student-teacher will be guided in the analysis and study of teaching-learning techniques and the basic components of skill. Skills are also provided in the development of the Spanish language, in the rules of language, grammar, punctuation, writing and spelling. It is offered to students in the office systems business education program.

EDPE 4021 - Seminar: Curriculum, Teaching, Learning and Assessment

Three credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: EDFU 3031- 3032.

Study of the basic principles of the elementary level curriculum, giving importance to the design, review, organization and adaptation of the content that best suits the needs, styles and styles of the curriculum. y

children's abilities.
EDPE 4022 - Seminar: Curriculum, Teaching, Learning and Assessment
Two credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: EDFU 3031- 3032, EDPE 4021.
Study of the basic principles of the elementary level curriculum, giving importance to the design, review, organization and adaptation of the content that best suits the needs, styles and styles of the curriculum and children's abilities.
EDPE 4029 - Teaching Modern Grammar in Elementary School

Two credits. Two hours of lecture per week.
The teaching of grammar through systematic organization in close connection with the language arts and the intellectual development of the child at the elementary level.
EDPE 4030 - Manipulatives and Technology in Secondary Mathematics
Two credits. Two hours of lecture per week. Prerequisites: MATE 3151, 3152, 3040, 3019, 3026 or (MATE 3101 or EDFU 4016).
The course will provide future teachers with the opportunity to learn about different manipulative options, face-to-face and virtual, to integrate them into the teaching-learning process of secondary school students. It will also provide the student-teacher with alternatives for the use of technological tools for the development of mathematical knowledge that is covered at the level to be taught. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 4034 - Constructive Strategies for Reading Comprehension
Three credits. Three hours of lecture a week.
Students will develop skills to promote the development of reading comprehension in students in kindergarten through 6th grade through the study and analysis of literary genres and other modes of discourse. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 4035 - Creative Expression in Childhood and Preschool Years
Two credits. Three hours of discussion a week.
Study and analysis of creative expression in the early stages, its role in integral development and in the education of early childhood. Different means and techniques appropriate for this age will be studied. The theory will be complemented by practical experiences.
EDPE 4036 - Neurobiological Development and Educational Implications for Early Childhood
Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week. Prerequisite: Have taken two K-3 methodology courses.
Analysis of neurobiological discoveries from the last 20 years and educational implications for early childhood education. The structure and function of the different components of the brain related to memory and learning will be discussed. Emphasis will be placed on the developmental stages and plasticity of the brain.

EDPE 4037 - Teaching Marketing in High School
Three credits. Three hours of meeting a week. Prerequisite: 15 credits in the area of distribution and marketing.
It will be dedicated to the analysis of instruction around distribution and marketing in the light of the prevailing philosophy and curriculum in our Puerto Rican reality. Laboratory experiences will be offered in tune with the course units.
EDPE 4038 - Science Teaching Techniques at the Elementary Level
Three credits. Three hours of lecture a week. Prerequisite: EDPE 3048.
Study of the different techniques of science teaching. It emphasizes research, the handling of laboratory materials and instruments, and the processes that the scientist develops as he or she carries out his or her work.

EDPE 4039 - Teaching Modern Grammar
Three credits. Three hours of lecture a week. Prerequisite: ESPA 3291- 3292.
It emphasizes the methodology involved in teaching a language course using a modern linguistic approach that facilitates a better knowledge of the language and greater proficiency in oral and written expression. This course will be offered in face-to-face, hybrid, distance and online modalities.

EDPE 4045 - Workshop for the preparation of teaching materials in science
Three credits. Three hours of lecture a week. Prerequisite: EDPE 3041, EDPE 4002.
Workshop to train elementary level science teachers in the preparation of materials and simple equipment basic to the teaching of the subject. The identification and creative use of available homemade materials, as well as other free or low-cost materials available to the teacher, will be required. The teacher will broaden and deepen the knowledge of the content of science and the indispensable processes in the teaching of science, thus coordinating the theoretical and practical aspects of teaching.
EDPE 4046 - Special Topics in Primary Education
Two credits. Two hours of lecture per week. Prerequisite: EDPE 4011- 4012, EDPE 4021. Seminar that takes the student deeper into special topics of primary education and emphasizes the results of research, innovations, and the evaluation of child development y sex education.
EDPE 4048 - Curriculum and Methodology in Abbreviated Writing Systems

Three credits. Three hours of lecture a week. Prerequisites: EDFU 3001- 3002, EDFU 3007. Minimum 30 credits in business education.
This course enables the student to teach abbreviated writing systems, such as the *Gregg* system and other alphabetic systems, at the elementary level and at the advanced level of transcription using multimedia. Course planning, objective writing, learning principles, *assessment principles* and methodology are discussed.
EDPE 4049 - Curricular Innovations in Accounting
Three credits. Three hours of lecture a week. Prerequisite: EDFU 3001- 3002, EDFU 3007. Minimum 20 credits in business education (accounting).
This course equips the student with the competencies required for the teaching of accounting at all levels.
EDPE 4055– Teaching Biology at the Elementary Level
Three credits. Three hours of lecture a week.
Study of teaching, at the elementary level, of the fundamental theories, principles and concepts of the biological sciences; These include characteristics of life, genetics, evolution and ecology. It focuses on planning, focusing on the problematization of learning and the assessment of the development of a scientific culture. This course will be offered in face- to-face, hybrid, distance and online modalities.
EDPE 4056 - Alternatives in Primary Level Approaches and Programming Three credits. Three hours of lecture a week. Prerequisite: Director's permission.
This course studies different programs and pedagogical alternatives at the primary level. It emphasizes, among others, non-grade schooling, *Montessori* methods, child development centers, *Head Start* programs, and *mainstreaming*.

EDPE 4057 - Principles of Earth Science at the Elementary Level
Three credits. Three hours of lecture a week.
Basic course in earth and space sciences for elementary school teachers. It includes fundamental concepts of meteorology, oceanography, geology, and astronomy. Emphasis is placed on the teaching of these disciplines at the elementary level, considering the planning and use of educational materials. This course will be offered in face-to-face, hybrid, and distance learning modalities y online.

EDPE 4058 - Speech and Language Development - Developmental Problems

Three credits. Three hours of lecture a week.
Study of the child's language formation, the factors that may cause impediments in their development, common problems and some of the speech problems. It discusses therapeutic techniques and measures to correct language and speech problems and alterations.
EDPE 4060 - Keyboard Teaching Methodology and Technology Integration
Four credits. Two hours of lecture and two hours of workshop per week. Prerequisites: EDFU 3001, FAED 4001, ADSO 4105.
Development of professional skills for keyboard teaching and information processing at the intermediate, secondary and post-secondary levels. Training in methods and strategies to direct the learning of skills related to the development of keyboard skills and the integration of technology in education. These competencies will be developed through the study and analysis of the fundamental components for the learning of these skills, field experiences, the preparation of specialized materials and projects in the areas of keyboard handling and integration of technology in teaching, offering demonstration classes, discussion of cases and preparation of semester plans. and journal. This course replaces EDPE 4047 and EDPE 4050.

EDPE 4061 - Middle School Curriculum Design and Development I
Three credits. Three hours of discussion a week.
Study and analysis of the design of the curriculum that responds to the needs of students at the intermediate level. From the various academic areas, the principles of curricular integration, teaching strategies and means of assessment for this level are studied. It requires field and clinical experiences.
EDPE 4062 - Middle School Curriculum Design and Development I
Three credits. Three hours of discussion a week. Prerequisite: EDPE 4061.
Study and analysis of the design of the curriculum that responds to the needs of students at the intermediate level from the various academic areas, the principles of curricular integration, the teaching strategies and the means of evaluation for this level are studied. It requires field experiences.
EDPE 4065 - Creative Power and Plastic and Musical Manifestations y dramatic
Three credits. Two hours of lecture and one hour of lab per week.
This course leads the student to create, select, execute and evaluate creative activities in the field of music, visual and dramatic arts. Orients the student around the needs and skills of children at the elementary school level.
EDPE 4066 - Materials and Techniques for the Teaching of Plastic Arts in Elementary School
Three credits. Two hours of lecture and one hour of lab per week.
The student is guided in the development of skills in the application of basic techniques to the plastic arts in two and three dimensions. Includes student participation in lab experiences.
EDPE 4067 - Seminar on Teaching Reading and Writing Six credits. Six hours of lecture per week. Prerequisite: Principal's permission.
Seminar designed to train elementary school teachers in the processes of teaching reading and writing with emphasis on: basic skills, special techniques, preparation of materials, individualization, evaluation and special attention to children with reading problems.
EDPE 4068 - Teaching Practice at the Elementary Level
Four credits. Twenty hours of practice a week. Prerequisites: Be a fourth-year student and complete 75-100% of professional and specialty courses, as applicable.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, attitudinal issues are discussed and analyzed in the field that the student teaches, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.

The student attends four hours daily at the assigned school or seminary at the university as appropriate in the semester calendar.
EDPE 4070 - The Purposes of the Teaching Practice Program and the Tasks of the Cooperating Teacher
Three credits. Three hours of lecture a week. Prerequisite: EDPE 4006 or 4016 or EDES 4068, teacher's license.
Discussion, analysis and practice of different strategies related to the tasks implemented by the cooperating teacher in the activities of teaching practice. Face-to-face, hybrid and online course.

EDPE 4075 - Creative Experiences in the Visual Arts, Music and Theatre for the Elementary School Level
Three credits. Three hours of lab time a week. Prerequisite: Principal's permission.
Integrated course. Individual and group experimentation with the concepts of color, movement, rhythm, feeling, sound, volume, surface and space to explore their relationship in the aesthetic experience. Observation and work with the environment that surrounds the child; laboratory experiences.
EDPE 4076 - Perceptual motor development through body movement (4th-6th)
Two credits. Two hours of discussion and one hour of lab per week.
Aimed at developing in the student the skills of selecting, organizing, directing, executing and evaluating movement activities that stimulate the perceptual motor development of the child who attends the upper levels of elementary school (4th - 6th).
EDPE 4077 - Curriculum and Methodology in Teaching Computers to Students with Disabilities
Three credits. Prerequisites: Fundamentals of Education EDFU 3001-3002.
Elementary and intermediate keyboarding, and a course in electronic information processing (ADSO 3035 and ADSO 3036, having passed 70% of the specialty courses. EDES 4006, EDES 3205, or 4019 special education courses.

Development of professional competencies for computer teaching to students with disabilities: methods; teaching techniques; specialized materials; modifications and adaptations to equipment; and laboratory experiences.
EDPE 4091 - Seminar I: Orchestral and Band Instruments
A credit. One hour of seminar per week.
Practical approach to teaching-learning. All aspects related to instruments of the symphony orchestra and concert band will be studied for the teaching of ensembles in public elementary and secondary schools. Basic content in the area; resource preparation, adaptation and utilization; Technical methodology and teaching strategies. They will get to know all the string instruments, reeds, woodwinds, brass and percussion. These practical experiences will complete the student's training, as a musical educator, to be able to carry out their musical work in the classroom.
EDPE 4092 - Seminar II: groups (Rondalla and choir)
A credit. One hour of seminar per week. Prerequisites: EDPE 4091.
Practical approach to teaching and learning. All aspects related to the practical knowledge of the different school groups in the teaching of music in elementary and secondary schools will be studied. Basic content in the area; resource preparation, adaptation and utilization; methodology, technique and teaching strategies. They will learn how to organize the different elementary and secondary school groups such as: choir of voices, choir of bells (diatonic and chromatic); recorder, rhythm band and sound tools. These experiences will enable the student to develop in different school ensembles and in their training as a musician and educator in the Puerto Rican context.
EDPE 4093 - Seminar III: New Trends in Music Education
A credit. One hour of seminar per week. Prerequisites: EDPE 4091, EDPE 4092.
Practical approach to teaching and learning. All aspects related to musical research, international experiences and school musical arrangements will be studied. Basic content in the area; resource preparation, adaptation and utilization; Methodology, technique and teaching strategies in the preparation of scores on computers for the different school sets. Development in the international field of pedagogical-

musical and avant-garde research that allows to meet the curricular needs of elementary and secondary school music students and in the training of the student as musician-educator and researcher.

EDPE 4116 - Methodology for Teaching Science at the Secondary Level
Four credits. Four hours of seminar per week. Prerequisite: EDFU
3001 or EDFU 3011, 3002 or EDFU 3012, 3007, 3017, 4007, 4019, TEED
3018, FAED 4001, EDES 4006 and 75% of the major courses with a minimum grade of C. Correquisite: FAED 4002
This course emphasizes the nature of science by considering epistemological, ethical, and historical aspects. The constructivist approach, based on the method of inquiry and discovery and problem solving, is highlighted in the course. The teaching planning process is developed in the context of learning theories and based on the analysis of the curriculum and methodology of science teaching. We work on the planning of teaching focusing on the three levels: unit, lesson and daily plan.
Strategies, methods, and techniques for science teaching are used for the process of teaching design and planning. It also emphasizes the importance of action research and that students know the educational policies of the science program. Requires completion of 30 hours of high school field experience. Face-to-face, hybrid course
y online.

EDPE 4121 - Curriculum, Teaching, Learning and Assessment Seminar - Part I

Three credits. Three hours of lecture and three hours of field experience per week. Correquisite: FAED 4002. Prerequisite: 50% on major courses including FAED
4001, EDFU 3001-3002, EDFU 3017, EDFU 4019, TEED 3017, EDES 4006, EDFU
4007. 50% in the specialty area.
First part of a year-long seminar. It consists of three hours of lecture and three hours of field experience per week. This seminar covers the design, development, implementation of
and curriculum assessment in a manner that promotes meaningful learning for all students by addressing their diverse needs, learning styles, and abilities, within the framework of the foundations of education at the elementary level. Face-to-face, hybrid and online course.
EDPE 4122 - Curriculum, Teaching, Learning and Assessment Seminar - Part II

Three credits. Three hours of lecture and three hours of field experience per week. Prerequisite: EDPE 4121, FAED 4001-4002.
Second part of a year-long seminar. It consists of three hours of lecture and three hours of field experience per week. This seminar covers the design, development, implementation of
and curriculum assessment in a manner that promotes meaningful learning for all
students, addressing their diverse needs, learning styles, and abilities, within the framework of the foundations of education at the elementary level. Face-to-face, hybrid and online course. EDPE 4125 - Teaching and Assessment Techniques in Adult Education

Three credits. Three hours of lecture a week. Prerequisite: EDFU 3001, 3002 and/or 3007, 4019 or equivalent courses.
Emphasis is placed on the development and application of various methods and techniques for adult teaching and assessment.
EDPE 4126 - Methodology for Teaching Social Studies in Secondary Education
Four credits. Four hours of seminary per week. Prerequisites: EDFU
3001 or 3011, EDFU 3002 or 3012, EDFU 3007, 3017, 4019, TEED 3018,
FAED 4001, EDES 4006 and 75% of the major courses with a minimum grade of C. Correquisite: FAED 4002.
The course emphasizes the theoretical and practical study of the teaching and learning of Social Studies

and History in secondary education. The epistemology of the discipline, its history and its methodological peculiarities are analyzed. The methods, techniques and strategies that promote the learning of the discipline are studied, including both emphases, as well as the basic curricular materials. The development of teaching skills in the areas of planning and production of lessons and didactic units is studied. In addition, it covers the study of action research, the implementation of active learning strategies, and assessment, in the practical context of the area. The student is required to develop laboratory experiences (30 hours per semester). Face-to-face, hybrid, distance learning and online course.

EDPE 4128 - Methodology for Teaching Mathematics in Secondary School

Four credits. Four hours of seminar per week. Prerequisites: EDFU 3001, or EDFU 3011, 3002, or EDFU 3012, 3007, 3017, 4019, TEED 3018, FAED *4001, EDES 4006 and 75% of the major courses with a minimum grade of C. Correquisite: FAED 3002.* The course provides a combination of theoretical and practical foundations that enable the student to effectively cope with the responsibilities and attitudes of a mathematics teacher at the secondary level. An overview of the history of education and the conditions of education today is studied. In addition, the theories that underpin the principles of teaching and learning are covered. We work with the curricular framework, the curricular standards and the current mathematics curriculum at the secondary level. You learn about the planning and strategies needed to teach in the area. Through the course, theory, practice and research are integrated through field experiences in public or private secondary schools. Requires 30 hours of field experience per semester in public or private school. Face-to-face, hybrid and online course.

EDPE 4131 - Theory and Methodology of Art Teaching in Elementary School

Three credits. Three hours of lecture a week. Prerequisites: 50% credits in the major; EDFU 3001, EDFU 3002, EDFU 3007, EDFU 4019, FAED 4001, EDES 4006, EDFU 4007, TEED 3018. Correquisite: FAED 4002.

All aspects related to the teaching of art in elementary school will be studied: planning, innovative education and curriculum analysis; core content in this area of expertise; preparation, adaptation and utilization of resources; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. The content is integrated into a practical foundation. All students will be required to complete a minimum of 20 hours of lab time at a public or private school. These experiences prepare students to develop critical, dynamic and creative attitudes towards the problems of education in Puerto Rico.

EDPE 4132 - Theory and Methodology of Art Teaching in High School

Three credits. Three hours of lecture a week. Prerequisites: 75% of the courses in the specialty; EDPE 4131 (Part One); FAED 4001, FAED 4002.

All aspects related to the teaching of art in secondary school will be studied: planning, innovative education and curriculum analysis; core content in this area of expertise; preparation, adaptation and utilization of resources; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. The content is integrated into a practical foundation. All students will be required to complete a minimum of 20 lab hours at a public or private school. These experiences will prepare students to develop critical, dynamic and creative attitudes towards the problems of education in Puerto Rico.

EDPE 4135 - Theory and Methodology of Science Teaching in Secondary School

Three credits. Prerequisite: Principal's permission.

Theoretical and practical approach to the teaching-learning process. All aspects of secondary school science education will be studied: planning; innovative education and curriculum analysis; basic content in the area; resource preparation, adaptation and utilization; teaching methodology,

techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences and at least an additional 30 hours of lectures. These experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.

EDPE 4136 - Teaching Practice in the Teaching of General Science in Secondary School
Six credits. Twenty hours of practice a week. Prerequisite: Principal's
permission. Prerequisites: Complete 100% of professional courses and 75% of specialization.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In this experience, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.
EDPE 4137 - Teaching Practice in Secondary School Biology Teaching

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In this experience, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDPE 4138 - Teaching Practice in Secondary School Physics Teaching

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In this experience, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.
EDPE 4139 - Teaching Practice in Secondary School Chemistry Teaching

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In this experience, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDPE 4141 - Curriculum and Methodology for Teaching Drama in Elementary School

Three credits. Three hours of lecture a week. Prerequisites: 50% of the courses of the specialty in theater, EDFU 3001, EDFU 3002, EDFU 3007, EDPE 4019 and
FAED 4001, EDES 4006, EDFU 4007, TEED 3018. Correquisite: FAED 4002.
Theoretical and practical approach to the teaching and learning process of aspects related to the theatre teaching process such as: planning, curricular analysis, educational innovations, basic curricular contents and basic principles of assessment; adaptation and use of resources and materials. The methodologies, techniques, and strategies of teaching theater from kindergarten through twelfth grade will be studied. The course is designed to be offered in two consecutive semesters. It is visualized as a practical perspective so it requires laboratory experiences. These are aimed at exploring educational levels, so the student is required to complete 20 hours per semester of direct contact in schools. One of the semesters will be at the elementary level and the other at the secondary level. Through these experiences, students will be trained to assume a critical, dynamic and creative attitude towards Puerto Rican educational problems. Face-to-face, hybrid, distance and online course.
EDPE 4142 - Curriculum and Methodology of Teaching Theatre in Secondary School

Three credits. Three hours of lecture a week. Prerequisites: 75% of the courses in the specialty; EDPE 4141, FAED 4001, FAED 4002.
Theoretical and practical approach to the teaching and learning process. All aspects related to the theatre teaching process are highlighted, such as: planning, curricular analysis, educational innovations, basic curricular content and basic principles of assessment; adaptation and use of resources and materials. Particular consideration will be given to the methodologies, techniques, and strategies of teaching theatre from kindergarten to twelfth grade. The course is designed to be offered in two consecutive semesters (3 credits each semester). The educational system is monitored from a practical perspective, so it requires laboratory experiences. These are aimed at exploring educational levels, so the student is required to complete 20 hours per semester of direct contact in schools. One
of the semesters will be at the elementary level and the other at the secondary level.

EDPE 4145 - Theory and Methodology of Teaching Mathematics in Secondary School
Three credits. Prerequisite: Principal's permission.
Theoretical and practical approach to the teaching-learning process. All aspects of teaching mathematics in secondary school will be studied: planning; innovative education and curriculum analysis; basic content in the area; resource preparation, adaptation and utilization; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our
Puerto Rican reality.
EDPE 4146 - Practice of Teaching Mathematics in High School

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In this experience, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDPE 4147 - The Calculator in Mathematics Teaching

Two credits. Two hours of lecture per week.
Methods for integrating the calculator into problem solving, exploring, developing, and reinforcing concepts, and experimenting with mathematical ideas are demonstrated and discussed. The student will participate in laboratory-type activities in which they will develop skills in the use of the calculator as a teaching tool and resource.
EDPE 4149 - Teaching Problem Solving in Mathematics at the Elementary Level.

Two credits. Two hours of discussion a week.
Study and analysis of the background and different strategies for learning and teaching the problem-solving process in elementary school mathematics. It emphasizes the creation and development of problems and how to assess student learning using different assessment techniques. Face-to-face, hybrid and online course.
EDPE 4150 - Methodology for Teaching Spanish at the Secondary Level
Four credits. Four hours of seminar per week. Prerequisite: EDFU
3001, or EDFU 3011, 3002 or EDFU 3012, 3007, 3017, 4019, TEED 3018, FAED 4001,
EDES 4006 and 75% of the major courses with a minimum grade of C. Correquisite: FAED 4002. The course presents a theoretical and practical approach to the teaching-learning process of all aspects related to the teaching of Spanish in secondary school: planning, innovative education and curriculum analysis; basic content in the area; resource preparation, adaptation and utilization; teaching methodology, techniques and strategies; Fundamentals of Measurement and Evaluation and Action Research. Students will complete at least 30 hours of laboratory experiences. These
laboratory experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems prevailing in our Puerto Rican reality. Face-to-face, hybrid and online course.
EDPE 4151 - Curriculum and Methodology for Teaching Music in Elementary School

Three credits. Three hours of lecture a week. Prerequisites: 50% credits in the major; EDFU 3001, EDFU 3002, EDFU 3007, EDFU 4019, FAED 4001, EDES
4006, EDFU 4007, TEED 4007, TEED 3018, and Seminar I (orchestra and band). Correquisite: FAED 4002.
Theoretical and practical approach to teaching-learning. All aspects related to the music teaching process are highlighted, such as: planning; innovative education, curriculum analysis; Basic curricular content and basic principles of assessment: preparation, adaptation and use of resources and materials. In particular, the methods, techniques and strategies of teaching music at the elementary level will be studied; Fundamentals of measurement and evaluation, technology and research in action. The educational system is monitored from a practical perspective, so laboratory experiences are required. These are aimed at exploring the elementary level, requiring the student to complete 20 contact hours in schools. These experiences will enable them to develop critical, dynamic, and
creative attitudes toward the educational problems that prevail in our Puerto Rican reality. Face-to- face, hybrid and online course.
EDPE 4152 - Curriculum and Methodology of Music Teaching in Secondary School

Three credits. Three hours of lecture a week. Prerequisites: 75% of the courses in the specialty; EDPE 4151, FAED 4001, FAED 4002, Seminar I (orchestra
y band).
Theoretical and practical approach to teaching-learning. All aspects related to the music teaching process are highlighted, such as: planning; innovative education, curriculum analysis; Basic curricular content and basic principles of assessment: preparation, adaptation and use of resources and materials. In particular, the methods, techniques and strategies of teaching music in secondary school will be studied; Fundamentals of measurement and evaluation, technology and research in action. The educational system is monitored from a practical perspective, so laboratory experiences are required. The student is required to complete 20 contact hours at the schools. These experiences will enable them to develop critical,

dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.
EDPE 4155 - Theory and Methodology of Teaching History and Social Studies in High School
Three credits. Prerequisite: Principal's permission.
Theoretical and practical approach to the teaching-learning process. All aspects of social studies teaching in secondary school will be studied: planning; innovative education and curriculum analysis; basic content in the area; resource preparation, adaptation and utilization; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.
EDPE 4156 - Teaching Practice in the Teaching of Social Studies in Secondary School
Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the specialty.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school and seminary at the university as appropriate.
EDPE 4157 - Teaching Practice in the Teaching of History in Secondary School Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends school or seminary at the university for four hours a day, as appropriate.
EDPE 4165 - Theory and Methodology of Art Teaching in High School

Three credits. Prerequisite: Principal's permission.
Theoretical and practical approach to the teaching-learning process. All aspects related to teaching art in secondary school will be studied: planning; innovative education and curriculum analysis; basic content in the area, preparation, adaptation and use of resources; teaching techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.

EDPE 4166 - Teaching Practice in Teaching Art in High School

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of specialty.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at

the assigned school or seminary at the university, as appropriate.
EDPE 4175 - Theory and Methodology of Music Teaching in Secondary School
Three credits. Prerequisite: Principal's permission.
Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of music in secondary school will be studied: planning; innovative education and curriculum analysis; basic content in the area; resource preparation, adaptation and utilization; methodology, technique and teaching strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.
EDPE 4176 - Teaching Practice in Secondary School Music Teaching

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the specialty.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.
EDPE 4178 - Theory and Methodology of Teaching Ballet in High School

Three credits. Three hours of discussion per week per week.
Theoretical and practical analysis of the teaching-learning process of ballet in secondary school. The aspects of planning, curricular analysis, basic content of the area are highlighted; preparation, adaptation and use of materials; teaching methodology; assessment of learning and instruction. It requires field experiences.

EDPE 4180 - Teaching Practice in Business Education Teaching - Office Systems
Four credits. 20 hours of seminar and supervised practice per week. Prerequisites:
The course is offered to students who have completed the required credits in the professional component and those in the major; FAED 4001 and FAED 4002.

The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university as appropriate in the semester calendar.
EDPE 4185 - Theory and Methodology of Teaching Theatre in Secondary School
Three credits. Prerequisite: Principal's permission.
Theoretical and practical approach to the teaching-learning process. All aspects related to teaching theatre in secondary school will be studied: planning; innovative education and curriculum analysis; basic content in the area; resource preparation, adaptation and utilization; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.
EDPE 4186 - Teaching Practice in Teaching Theatre in Secondary School

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDPE 4187 - Teaching Practice in the Teaching of Business Education in High School
Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of specialty.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDPE 4188 - Teaching Practice of Teaching Business Education-Marketing
Four credits. 20 hours of seminar and supervised practice per week. Prerequisites:
The course is offered to students who have completed the required credits in the professional component and those in the major; FAED 4001 and FAED 4002. Correquisite: FAED 4003.
The course requires students to lead the teaching and learning process in business education, major in marketing at a public or private school, participate in school activities, and attend
seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university as appropriate in the semester calendar.

EDPE 4189 - Teaching Practice in the Teaching of Business Education - Accounting

Four credits. 20 hours of seminar and supervised practice per week. Prerequisites: The course is offered to students who have completed the required credits in the professional component and those in the major; FAED 4001 and FAED 4002. Correquisite: FAED 4003.
The course requires students to lead the teaching and learning process in business education with an emphasis in the area of accounting, in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university as appropriate in the semester calendar.

EDPE 4195 - Theory and Methodology of Industrial Arts Teaching in High School
Three credits Prerequisite: Principal's permission.
Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of

industrial arts in secondary school will be studied: planning; innovative education and curriculum analysis; basic content in the area; Preparation, adaptation
and resource utilization; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences will enable them to develop critical, dynamic activities
y creative toward the prevailing educational problems in our Puerto Rican reality.

EDPE 4196 - Teaching Practice in the Teaching of Industrial Arts in High School Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.
EDPE 4205 - Theory and Methodology of Teaching Industrial Vocational Education in Secondary School
Three credits. Three hours of lecture and fifteen hours of lab or workshop per week.
Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of industrial vocational education in secondary school will be studied: planning; innovative education and curriculum analysis; basic content in the area; preparation, adaptation and use of teaching resources, methodology, techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences
will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.

EDPE 4206 - Teaching Practice in the Teaching of Vocational and Industrial Education in Secondary School
Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of specialty.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues are discussed and analyzed
in the field the student teaches, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.
EDPE 4215 - Theory and Methodology of Teaching Physical Education in Secondary School
Three credits. Prerequisite: Principal's permission.
Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of physical education in secondary school will be studied: planning, innovative education and curriculum analysis; basic content in the area; resource preparation, adaptation and utilization; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.
EDPE 4216 - Teaching Practice in Teaching Physical Education in Secondary School

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of specialty.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.
EDPE 4219 - Methodology for Teaching Secondary Physical Education
Four credits. Four hours of seminar per week. Prerequisites: EDFU
3001 or EDFU 3011, 3002 or EDFU 3012, 3007, 3017, 4019, FAED 4001
EDES 4006, TEED 3018 and 75% of the major courses with a minimum grade of C. Correquisite: FAED 4002.
The course is designed to integrate the concepts, theories and methodology of the physical education teaching and learning process into the school curriculum. Topics such as: the historical and contemporary background of physical education, policies and protocols applicable to the operation of the department of education and private education in Puerto Rico will be included. It will also include topics related to planning, teaching strategies and techniques, preparation and/or adaptation of teaching resources, assessment, evaluation, action research, professional considerations, discipline and the use of new technological trends. 30 hours of field experiences are required in public and private schools that are used as a practice center. Face-
to-face, hybrid and online course.
EDPE 4226 - Practice of Teaching Home Economics in High School Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.
The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.
EDPE 4227 - Practice of Health Teaching in High School
Six credits. Three hours of discussion and twelve hours of supervised practice per week.
The student observes, plans, conducts and evaluates the teaching-learning process in his/her role as a student-teacher in the health area in a high school. She participates in other teaching- related activities and attends concurrent seminars where situations are discussed and their needs are addressed, and theoretical knowledge and experience in the school are reflected upon and integrated.
EDPE 4230 - Reading and Writing at the Secondary Level
Three credits. One hour of lecture, one hour of discussion, and one hour of laboratory per week.
Prerequisite: Core courses.
Study of pedagogical ideas around human communication as a requirement for teachers of the Spanish area at the secondary level. These ideas will serve as the basis for the analysis of the principles that underpin the teaching-learning process of reading and writing at the secondary level, with emphasis on the methodology of teaching the vernacular language. Face-to-face, hybrid and online course.
EDPE 4235 - Theory and Methodology of Teaching Spanish in Secondary School
Three credits. Prerequisite: Principal's permission.
Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of Spanish in secondary school will be studied: planning, innovative education and curriculum analysis;

basic content in the area; resource preparation, adaptation and utilization; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These laboratory experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems prevailing in our Puerto Rican reality.

EDPE 4236 - Teaching Practice in the Teaching of Spanish in Secondary School

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.

The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend university seminars. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDPE 4237 - Practice of Teaching French in Secondary School

Six credits. Twelve hours of practice and three hours of discussion per week. Prerequisite: Principal's permission.

In the semester, the student is assigned to a public (or private) high school three hours a day, five days a week. Four days are devoted to teaching French and participating in all the other activities inherent to the work of the teacher. One day a week he meets in seminar with the university professor to analyze and discuss the problems faced in his teaching practice. In this laboratory, the student is assisted in his self-study by a supervising teacher, the school principal and a university professor.

EDPE 4238 - Practice of Teaching Italian in Secondary School

Six credits. Twelve hours of practice and three hours of discussion per week. Prerequisite: Principal's permission.

In the semester, the student is assigned to a public (or private) high school three hours a day, five days a week. Four days are devoted to teaching Italian in secondary school and participating in all the other activities inherent to the work of the teacher. One day a week he meets in seminar with the university professor to analyze and discuss the problems faced in his teaching practice. In this laboratory, the student is assisted in his self-study by a supervising teacher, the school principal and a university professor.

EDPE 4245 - Theory and Methodology of Teaching English in Secondary School

Three credits. Prerequisite: Principal's permission.

Theoretical and practical approach to the teaching-learning process. All aspects related to teaching English in secondary school will be studied: planning; innovative education and curriculum analysis; basic content in the area; resource preparation, adaptation and utilization; teaching methodology, techniques and strategies; Fundamentals of measurement and evaluation. Students will complete at least fifteen hours of laboratory experiences. These experiences will enable them to develop critical, dynamic, and creative attitudes toward the educational problems that prevail in our Puerto Rican reality.

EDPE 4246 - Teaching Practice in Teaching English in Secondary School

Six credits. Twenty hours of practice a week. Prerequisites: Complete 100% of professional courses and 75% of the major.

The course requires students to lead the teaching and learning process in a public or private school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, and practical tools
and methodological skills to develop in them the knowledge, skills and attitudes that contribute to improving their teaching practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. The student attends four hours daily at the assigned school or seminary at the university, as appropriate.

EDPE 4255 - Language Arts in Secondary School Curricular Areas

Three credits. Three hours of lecture a week. Prerequisite: EDFU 3001, 3002 and fifteen credits in the specialty.
Application of language skills: spelling, reading, oral communication and writing within their disciplines. In this course, students will analyze and apply effective language teaching in learning and teaching processes within multidisciplinary contexts. Face-to-face, hybrid and online course.
EDPE 4275 - Theory and Methodology of Health Teaching in Secondary School
Three credits. Three hours of discussion a week.
Theoretical and practical approach to the teaching-learning process. All aspects of health education will be studied from elementary to secondary school: planning, innovative education and curriculum analysis; basic content of the area; resource preparation, adaptation, utilization and assessment; teaching methodology, assessment of learning and instruction. A minimum of 15 hours of clinical and field experiences is required.

EDPE 4305 - The Curriculum in Adult Education
Three credits. Three hours of lecture a week. Prerequisites: EDFU 3001, 3002, 3007, 4019. Critical examination of problems inherent in the curriculum in adult education programmes.
It includes: analysis and evaluation of the literature, research, principles and basic factors for planning related to curriculum design for adults. Schools where adult education programmes exist will be visited.
EDPE 4345 - Practice in General Science Teaching at the Secondary Level
Four credits. Four hours of seminar and 16 hours of supervised practice per week. Prerequisite: Have completed the requirements for the professional component and those for the FAED 4001-4002 specialty component. Correquisite: FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning general science in a public or private secondary school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student. Face-to-face course.

EDPE 4346 - Practice in Teaching Chemistry at the Secondary Level
Four credits. Four hours of seminar and 16 hours of supervised practice per week. Prerequisite: students who have completed the required credits in the professional component and those in the major; FAED 4001 and 4002. Correquisite: FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning chemistry in a public or private secondary school, participating in school activities, and attending seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.

EDPE 4347 - Practice in Teaching Physics at the Secondary Level Four credits. Four hours of seminar and 16 hours of supervised practice per week. Prerequisite: having completed the required credits in the professional component and those in the specialty; FAED 4001-4002. Correct: FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning physics in a public or private secondary school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools

to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice.

EDPE 4348 - Practice in Teaching Biology at the Secondary Level
Four credits. Four hours of seminar and 16 hours of supervised practice per week. Prerequisite: to have completed the required credits in the professional component
and those in the specialty. FAED 4001-4002. Correct.
FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning biology in a public or private secondary school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.
EDPE 4349 - Practice in Teaching Social Studies Secondary Level Four credits. Four hours of seminar and 16 hours of supervised practice per week. Prerequisite: to have completed the required credits in the professional component and those in the specialty. FAED 4001-4002.
Correct:
FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning social studies in a public or private secondary school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.

EDPE 4350 - Practice in Teaching History at the Secondary Level Four credits. Four hours of seminar and sixteen hours of supervised practice per week. Prerequisite: having completed the credits required in the professional component and those in the specialty: FAED 4001-4002. Correct: FAED 4003.
Teaching practice requires students to plan and facilitate the teaching-learning process of history in a public or private secondary school, participate in school activities, and attend seminars at the university. In these experiences, students will be provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.

EDPE 4355 - Practice in Teaching Theatre at the Secondary Level
Four credits. Four hours of seminar and 16 hours of supervised practice per week. Prerequisite: having completed the required credits in the professional component and
those in the specialty; FAED 4001-4002. Correct:
FAED 4003.
The practice of teaching requires students to plan and facilitate the process of teaching and learning drama in a public or private secondary school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of

the selected school supervise the student.

EDPE 4356 - Practice in Music Teaching at the Secondary Level Four credits. Four hours of seminar and 16 hours of supervised practice. Prerequisites: The course is offered to students who have completed the required credits in the professional component and those in the major; FAED 4001 and FAED 4002. Correquisite: FAED 4003.
Teaching practice requires students to plan the process of teaching and learning music in a public or private high school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.
EDPE 4357 - Art Practice High School
Four credits. Four hours of seminar and sixteen hours of supervised practice per week. Prerequisite: having completed the required credits in the professional component and those in the specialty; FAED 4001-4002. Correct:
FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning art in a public or private high school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.

EDPE 4358 - Practice in Teaching Mathematics at the Secondary Level
Four credits. Four hours of seminar and sixteen hours of supervised practice. Prerequisite: have completed credits required in the professional component and those of the specialty; FAED 4001- 4002. Correquisite: FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning mathematics in a public or private secondary school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.

EDPE 4359 - Practice in Teaching English at the Secondary Level Four credits. Four hours of seminar and sixteen hours of supervised practice per week. Prerequisite: having completed the required credits in the professional component and those in the specialty; FAED 4001-4002; Correct: FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning English in a public or private secondary school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.

EDPE 4360 - Practice in Teaching Spanish at the Secondary Level Four credits. Four hours of

seminar and sixteen hours of supervised practice per week. Prerequisite: having completed the required credits in the professional component and those in the specialty; FAED 4001-4002; Correct: FAED 4003.
Teaching practice requires students to plan and facilitate the process of teaching and learning Spanish in a public or private high school, participate in school activities, and attend seminars at the university. In these experiences, students are provided with theoretical, technical, practical and methodological tools to develop in them the knowledge, skills and attitudes that contribute to improving their practice. In addition, current issues in the field the student teaches are discussed and analyzed, as well as situations that arise in practice. A university professor, a cooperating teacher, and the principal of the selected school supervise the student.

EDPE 4995 - Directed Independent Study
One to six credits. Conferences by arrangement. Maximum of nine credits. Prerequisite: by agreement with the
teacher and with the permission of the principal.
Study of special topics or specific problems of interest to individuals or small groups of undergraduate-level students led by a faculty.
EDPR 4011– Curriculum and Methodology at the Preschool Level (Part I)
Three credits. Three hours of lecture and three hours of lab per week. Prerequisites: EDPR4125, EDFU3012, FAED4001. Corequisites: EDPR4255, EDPE4136, EDPE4035, EDPR4137.
Study, analysis and application of the basic principles and approaches for the design and development of an appropriate curriculum for infants and nursery schools. Comparison of various programs, approaches, and curricular trends. 25 hours of field and pre-practice experiences are required in centers that provide educational services to infants and nursery schools. Face-to-face, hybrid and online course. This course replaces ECDO4011 from August 2017.
EDPR 4012– Curriculum and Methodology at the Preschool Level (Part II)
Three credits. Three hours of lecture and three hours of lab per week. Prerequisites: EDPR4011, FAED4002. Corequisites: EDPR4126, EDPE3145, two electives and a writing workshop.
Study, analysis and application of the basic principles for the design and development of an integrative curriculum that is appropriate for preschool children. The various approaches, models, and curricular trends at the preschool level that predominate in Puerto Rico are compared
and in other countries. 30 hours of field and pre-practice experiences are required in UPR and community preschools that provide appropriate educational services for children
and preschool girls. Face-to-face, hybrid and online course. This course replaces ECDO4012 from August 2017.
EDPR 4125– Child Growth and Development: Infants, Nursery and Preschoolers Three credits. Three hours of lecture a week. Corequisites: Lite, Literature, Math, Logical Thinking, EDFU 4019, TEED 3027, EDES3025.
A global vision of childhood at an early age (infant, nursery and preschool) which frames the dimensions of childhood development within an ecological and ecosystem conceptual framework. It considers the theoretical postulates that support the integral development of childhood, including general characteristics of motor, cognitive, linguistic, social, emotional and daily life development. It establishes a scaffolding of experiences among which it requires the construction of development guides, observation of childhood, interviews with the family and the design of play experiences to promote the optimal development of children in their natural and educational context. Face-to-face, hybrid, distance learning and online course. This course replaces ECDO4125 as of August 2017.
EDPR 4126– Organization and Administration of Infant, Nursery and Preschool Programs
Three credits. Three hours of lecture a week. Prerequisites: EDPR4011, FAED4001, FAED4002. COREQUISITES: EDPR4012, EDPE3145, two free
electives of 3 credits each.
Study of the principles of organization, implementation and administration of infant, nursery and

preschool centers. Analysis of the historical background of early education; of programmatic paradigms and trends of appropriate models for the planning and establishment of infant, nursery and preschool programs. The theory will be enriched with practical
experiences of active integration in various scenarios at the infant, maternal or preschool level. Face- to-face, hybrid and online course. This course replaces ECDO4126 from August 2017.

EDPR 4136– Early Childhood Assessment: Infants, Nursery and Preschoolers

Three credits. Three hours of lecture a week. Prerequisite: EDPR4125. Corequisites: EDPR4011, EDPR4255, EDPR4137, FAED4002, EDPE4035

Study of the principles, foundations, methodology and interpretation of the evaluation processes of growth, integral development and learning of early childhood (infants, nursery and preschool). The means of observation and evaluation and continuous evaluation will be examined, considering the implications in the educational processes and in the optimal integral development of each child. Field experiences and research in infant, nursery and preschool scenarios are required. Face-to-face, hybrid, distance learning and online courses. This course
replaces ECDO4136 as of August 2017.

EING 4002 - Methodology for Teaching ESL to Spanish Speakers in Primary Education Part II.

Three credits. Three hours of lecture a week. Prerequisites: 75% of the courses of the specialty FAED 4001, FAED 4002.

Preservice teachers will plan demonstration classes and curricular activities to develop English as a Second Language (ESL) skills based on national and local standards. Future teachers will implement authentic *assessment* strategies which will serve as a basis for planning curricular activities. An action research project will be designed for which a pilot test will be carried out.

National and local standards will serve as the basis for planning an integrated curriculum unit. 30 hours of lab experiences in ESL at the elementary level are required.

EING 4005 - Literature for Teens

Three credits. Three hours of lecture a week.

This course is designed to familiarize teacher candidates with a wide range of young adult literature. Class sessions will include reading and discussing leading authors
and literary works of different genres. Innovative and traditional strategies for teaching literature, as well as student-centered activities, will be examined and practiced. Extensive reading of literary works is required. Emphasis will be placed on the enjoyment of literature and on stimulating a love of reading in adolescents. Class observation and field experiences are required. Face-to-face, hybrid and online course.

EING 4006 - Teaching English to Spanish Speakers

Three credits. Three hours of lecture a week.

Study information about the latest linguistic theory and its relationship to the communication process and learning. Seek information about the nature and function of language in related disciplines such as: psychology, anthropology, sociology, philosophy, etc.; as well as in the natural sciences.

Study the problem of bilingualism; the different factors affecting Puerto Rico and other bilingual countries and their pedagogical implications. Lectures, with classroom discussion; guest lecturers in various disciplines; Films, individual and group presentations, and intensive language- related readings will be part of the activities of this course. Face-to-face, hybrid and online course.

EING 4007 - Workshop for the Preparation and Evaluation of Teaching Materials from English to Spanish Speakers - Elementary School Level *Three credits. Three hours of lecture a week.*

It introduces elementary and secondary school teachers to various aspects of the preparation and evaluation of materials for teaching English to Spanish speakers. It offers a large number of audiovisual and audiolingual materials and their possibilities for use in the classroom. Demonstrate the use of electronic equipment and train in the preparation of didactic and illustrative material. It includes lectures, individual and group projects, visits to audiovisual centres, demonstrations, etc. Face-to-face, hybrid, distance and online course.

EING 4008 - Workshop for the Preparation and Evaluation of Teaching Materials from English to

Spanish Speakers - High School Level *Three credits. Three hours of lecture a week.*
It introduces elementary and secondary school teachers to various aspects of the preparation and evaluation of materials for teaching English to Spanish speakers. It offers a large number of audiovisual and audiolingual materials and their possibilities for use in the classroom.
Demonstrate the use of electronic equipment and train in the preparation of didactic and illustrative material. It includes conferences, individual and group projects, visits to audiovisual centres, demonstrations, etc.
EING 4009 - Methods and Techniques for Teaching English to Spanish Speakers– Elementary Level
Three credits. Three hours of lecture a week.
It reconciles the various approaches, methods, and techniques recommended for the teaching of modern foreign languages and develops a common philosophy in teachers of teaching a second language. It studies the impact of modern technology on the teaching of foreign languages through the use and handling of electronic equipment and materials suitable for different levels.
Demonstration classes will be offered with observation and discussion of these. Students will do sample *teaching* in the classroom to practice various techniques and discuss them. The microteaching steps will be analyzed and applied to teaching English as a second language.
EING 4010 - English as a Second Language Methodology Elementary Level
Four credits. Four hours of seminar per week. Prerequisites: EDFU
3001 or EDFU 3011, EDFU 3002 or EDFU 3012, EDFU 3007, 3017, 4007,
4019, TEED 3017, FAED 4001, EDES 4006 and 75% of the courses of the specialty with a minimum grade of C. Correquisite: FAED 4002.
The course presents a brief overview of the history of English language teaching in Puerto Rico from 1898 to the present, which will serve as a discussion of current issues related to the instruction of English as a second language (ESL), and analyzes the principles of foreign language teaching. Different approaches, methods, educational and research strategies, and techniques for teaching English as a second language are studied. In addition, the impact of modern technology on teaching English as a second language is explored. Teacher candidates plan demonstration classes and draft plans for ESL skill development based on national and local standards. The course requires 30 hours of lab experience in an elementary ESL classroom. Face-to-face, hybrid and online course.
EING 4015 - Methods and Techniques for Teaching English to Spanish Speakers– Secondary Level
Three credits. Three hours of lecture a week.
It reconciles the various approaches, methods, and techniques recommended for the teaching of modern foreign languages and develops a common philosophy in teachers of teaching a second language. It studies the impact of modern technology on the teaching of foreign languages through the use and handling of electronic equipment and materials suitable for different levels.
Demonstration classes will be offered with observation and discussion of these. Students will do sample *teaching* in the classroom to practice various techniques and discuss them. The microteaching steps will be analyzed and applied to teaching English as a second language.
EING 4016 - Children's Literature
Three credits. Three hours of lecture a week.
It will be offered to elementary and high school teachers. Prospective teachers will read intensively and extensively in the field of children's and adolescent literature in order to relate well to this field.
The genres with the greatest literary value and style will be selected and their linguistic and literary relationship will be studied. Creative activities will be offered such as: oral recitation, dramatization, acting, pantomime, song by chorus, in tune with the various genres presented at the various levels: stories, rhymes, ballads, legends, myths, poetry, biography, drama, essay and other informative materials of interest to our children and adolescents. Special attention will be given to the appreciation and interpretation of those cultural patterns presented in the various selections aimed at interpreting to the students the cultural background and values of the American people and other English-speaking countries.
EING 4017 - Comparative Analysis Between English and Spanish
Three credits. Three hours of lecture a week.

A contrast and comparison analysis of English and Spanish to determine the similarities and differences of the phonological and syntactic patterns of the two languages. Special attention will be given to the differences between the two languages as these are the sources from which the linguistic difficulties that the student has to face when learning English as a second language emanate. Lectures, textbook readings, supplementary readings such as books, magazines, studies, etc., as well as research papers, tape recordings, film screenings and other audio-visual aids will be used.

EING 4018 - Linguistics and Reading Instruction

Three credits. Three hours of lecture a week.

Prospective elementary and secondary teachers appointed to guide candidates in clarifying a consistent theory of learning as it relates to the psychology of reading and its relationship to language development. Reading readiness factors will be presented; new trends in reading instruction, initial activities of the reading process, and more advanced activities in relation to the diverse interests and needs of students at various levels. Various techniques and procedures will be demonstrated, and units and daily plans will be prepared illustrating the various skills and how to transmit them to different levels. Face-to-face, hybrid and online course.

EING 4019 - Teaching Literacy to Students Who Take English as a Second Language at the Elementary Level

Three credits. Three hours of lecture a week. Prerequisites: EING 4006 and EING 4018.

This course emphasizes teaching English as a second language reading to students starting out in the reading process. The stages of reading development from emergent to the most independent readers will be studied, as well as the most appropriate practices for each stage. Trends and issues related to phonics teaching, literature-based approaches, phonological knowledge, and theories pertaining to emergent reading and writing and reading readiness will be explored. Best practices in writing development are also studied. Teacher candidates will learn how to plan instruction for students to develop reading and writing competencies. Assessment procedures are also included to diagnose the levels of reading and writing development and student achievement. Face-to-face, hybrid course y online.

EING 4020 - English as a Second Language Methodology in Secondary School

Four credits. Four hours of seminar per week. Prerequisites: EDFU 3001, 3002 or EDFU 3012, 3007, 3017, 4019, TEED 3018, FAED 4001, EDFU 4007, EDES 4006. Correquisite: FAED 4002.

The course emphasizes the relationship between short-term and long-term planning. The teacher candidate will learn how to plan standards- and content-based ESL instruction to determine culturally appropriate practices aimed at a diversity of students. The course emphasizes the relationship between assessment, planning, and implementation of teaching and student performance. Different assessment tools and techniques will be used to diagnose and evaluate students' academic progress. They will analyze the results of the assessment and use them for instructional planning, which should respond to the needs of students in the school context. The teacher candidate will observe and actively participate in field experiences (30 hours). Where you will practice one-on-one or small group teaching at the high school level. Students will conduct an action research study.

Face-to-face, hybrid and online course.

EING 4035 - Teaching ESL Reading for Secondary Education Three credits. Three hours of lecture a week. Prerequisites: EING 4006; EING 4018.

This course focuses on students' literacy needs in the process of learning English as a Second Language (ESL) in middle and high schools. The preservice teacher will develop the understanding, knowledge, and skills to help students with reading and writing difficulties develop essential ESL literacy skills. Teaching methods, procedures, diagnoses and *assessment* of the reading and writing process will be studied. Preservice teachers will plan activities and curricular units that integrate language arts and content-based

knowledge. Class observation and field experiences are required. Face-to-face, hybrid and online course.
EING 4045 - Teaching Writing in English as a Second Language (ESL)

Three credits. Three hours of lecture a week. Prerequisites: EING 4006, EING 4018, EING 4019, EING 4035.
This course is designed for both elementary and high school teacher candidates. The main emphasis is to refine their skills in written composition and in turn interest them in the art of teaching writing. Candidates will plan teaching for a series of activities with the purpose of helping their students develop writing from the context of prayer to expository text. In addition, it will focus on candidates' ability to draft, revise, lecture, edit and publish, as well as form grammatically correct text. These will model skills in the process of teaching students the process of writing sentences and essays in English as a Second Language (ESL). Field experiences are required. Face-to-face, hybrid and online course.

EING 4046 - Assessment of English as a Second Language Three credits. Three hours of lecture a week. Prerequisites: EDFU 3017, EING 4006, EING 4018, EING 4005 or 4016, EING 4035.
Course designed to provide ESL teacher candidates, at the primary and secondary levels, with evaluation and assessment procedures specific to the learning of second languages. It will provide students with the skills necessary to select, assess, administer, interpret and communicate the results of formal and informal assessment strategies, including the assessment of language skills and placement procedures. Currently, it is a requirement for these instruments in school contexts. Face-to-face, hybrid and online course.

EING 4047 - Teaching English Grammar to Spanish Speakers Three credits. Two hours of lecture per week. Prerequisite: EING 4009, ENGLISH 4206.
Alternatives and strategies for teaching grammar from English to Spanish speakers. Face-to- face, hybrid and online course.
FAED 4001 - Professional Reflective Seminar I
A credit. Three hours of lecture a week. Concurrent: EDFU 3012, or ECDO 3007 or EDFI 3618. The faculty of education's professional reflective seminar is offered in three stages that extend from the student's arrival at the faculty to the end of their baccalaureate. It provides
students have the opportunity to reflect on teaching and the academic and professional preparation that this career entails. It uses the e-portfolio as a tool to stimulate and evidence its process of reflection and development based on competencies
and the principles presented in the conceptual framework of the Faculty of Education. In the Professional Reflective Seminar I, the student will get to know the conceptual framework of the Faculty of Education and start the process and development of the electronic portfolio. The theme that serves as the basis for the reflective process in this first seminar is to be an educator. Face-to-face, hybrid course
y online.
FAED 4002 - Professional Reflective Seminar II
A credit. Three hours of lecture a week. Concurrent requirement: internship course according to specialty. The faculty of education's professional reflective seminar is offered in three stages that extend from the student's arrival at the faculty to the end of their baccalaureate. It provides
students have the opportunity to reflect on teaching and the academic and professional preparation that this career entails. It uses the e-portfolio as a tool to stimulate and evidence its process of reflection and development based on competencies
and the principles presented in the conceptual framework of the Faculty of Education. In the Professional Reflective Seminar II, the student reflects on the teaching-learning process, his or her educational philosophy: he or she links his or her field and learning experiences to the teaching- learning processes to the portfolio. Face-to-face, hybrid and online course.
FAED 4003 - Professional Reflective Seminar III
A credit. Three hours of lecture a week. Concurrent requirement: practice course according to the specialty.

The faculty of education's professional reflective seminar is offered in three stages that extend from the student's arrival at the faculty to the end of their baccalaureate. It provides
students have the opportunity to reflect on teaching and the academic and professional preparation that this career entails. It uses the electronic portfolio as a tool to stimulate and demonstrate its process of reflection and development based on competencies
and the principles presented in the conceptual framework of the Faculty of Education. In the Professional Reflective Seminar III, the student completes the portfolio and the topic that serves as the basis for the reflective process is research in the teaching process.
Face-to-face, hybrid and online course. RECR 3005 - Dancing in Recreation
Two credits. Two hours of lecture and one hour of practical workshop per week.
Introduction to the development of dance as a recreational medium. Exploration of the ramifications of dance and the services offered at the community level. Creation and assembly of a dance event.

RECR 3105 - Sport and Physical Activity for Special Populations
Three credits. Two hours of lecture and one hour of workshop per week.
This course is aimed at special populations with sensory (blind and deaf), intellectual- mental (mental retardation, autism and mental illness) and social (confined and institutionalized) impairments. Emphasis will be placed on the design of adapted sports programmes in accordance with the international statutes of organised sport for persons with disabilities. Sports services for special populations are in significant demand in today's society. The increase in the population with disabilities calls for better school, rehabilitative and community sports programmes to support their physical, psychological and social development. Sport and adapted physical activity have different types, organizations, modalities and classifications according to the condition of the participant. Adapted physical activity will follow the guidelines of the protocols designed for the counseling of leisure time and the prescription of exercise in special populations. Face-to-face, hybrid and online course.
RECR 3685 - Introduction to the Study of Recreation
Three credits. Three hours of lecture a week.
Philosophical principles. History of the recreational movement, government accountability at various levels, voluntary partnerships, leadership, and programs. Development of a recreational concept with particular application to Puerto Rico. Face-to-face, hybrid and online course.

RECR 3686 - Prescription and Treatment of Recreational Therapy
Three credits. Three hours of lecture a week.
Analysis of prescription and different treatment modalities for special populations. Evaluation of the instruments, treatments and activities used in the different sectors. This course will be offered face-to-face, hybrid, distance learning, and online.
RECR 3695 - Leadership and Group Work
Three credits. Three hours of lecture a week.
Basic principles and theoretical foundations of working with directed groups and their value and significance in democratic societies. Methods and techniques used to promote individual and collective development through group experience with an emphasis on organized recreation.
Face-to-face, hybrid and online course. RECR 3715 - Art in Recreation
Three credits. Two hours of lecture and one hour of supervised practice per week.
Basic principles of art theory and practice for the future administrator of recreational programs or services. Analysis of offers in recreational programs that include art-related activities.
Historical panorama of art and its influence on popular aesthetics. RECR 3726 - Outdoor Recreation
Three credits. Three hours of lecture a week.
Study of the relationship between natural resources, recreation and people. Issues impacting areas and resources for outdoor recreation. Special attention to the management and conservation of the environment for recreational purposes. Skills for leading groups outdoors. It requires visits or outings and overnight stays outside the premises. Face-to-face, hybrid and online course.

RECR 3820 - Leisure Education
Three credits. Three hours of lecture a week.
Study of leisure time as a social phenomenon of growing importance in contemporary society and its belonging to formal and informal education. I appreciate free time as an opportunity to reach a rewarding level of life satisfaction. Promote values, attitudes, knowledge and leisure skills that have an impact on intellectual, emotional, physical, metaphysical and social development during the life course. To combine education, as a lifelong process, with daily leisure practices, both for personal use and for professional performance within the various educational environments.
RECR 4006 - Introduction to Therapeutic Recreation
Three credits. Three hours of lecture a week.
History, principles, philosophy, and modalities of therapeutic recreational services. Face-to-face, hybrid and online course.
RECR 4015 - Internship and Seminary in Recreation
Nine credits. One hour of lecture and 24 hours of workshop per week. Prerequisite: Principal's permission. The practice of educational recreation in the different government agencies and private enterprise, the student will actively participate in the program of the cooperating agency. You will be provided with experience in organizing and implementing programs in association with the professional leadership of the agency and on your own under the supervision of the cooperating agency and the university supervisor. It is considered a full load. Face-to-face, hybrid course
y online.

RECR 4025 - Camp Management
Three credits. Three hours of lecture a week. Prerequisite: RECR 3725.
A brief history of the development of organized camps. Planning, organization and management, selection and training of personnel and evaluation of all areas. Basic concepts of safety, health, and risk management. Requirements in Puerto Rico for the operation of camps. Face-to-face, hybrid and online course.
RECR 4045 - Interpreter Services in Recreation Areas
Three credits. Three hours of lecture and workshop per week. Prerequisite: RECR 3685, RECR 3726 or approval from the program coordinator. That the student has a free weekend to do fieldwork. Introduction to the resource of interpretation of recreation areas as a means of educating and expanding the services offered to visitors to museums, historical areas, parks, forests, refuges, places of social and cultural interest and others. Presentation and research of alternatives to facilitate the knowledge, appreciation and enjoyment of a particular place, using its resources (social, cultural or historical events, flora, fauna, geology or pre-history of the place, etc.). This course will be offered face-to-face, hybrid, distance learning, and online.

RECR 4055 - Sport in Recreation
Three credits. Three hours of lecture a week.
Analysis of the nature, values and purposes of various individual and team sports, including aquatic sports, the rules and scoring systems of these are studied, as well as the organization, implementation and evaluation of competitive tournaments. This course will be offered in face- to-face, hybrid, distance and online modalities.
RECR 4065 - Tourism and Recreation
Three credits. Three hours of lecture a week.
Study of tourism as a social phenomenon framed within the field of study of leisure time and recreation, its origins, current and future characteristics and social impact. Study of the components of the system for the development of recreation areas, parks and tourism.
Consideration of physical facilities and programs as important factors in the development of areas for the use of visitors. This course will be offered in face-to-face, hybrid, distance and online modalities.

RECR 4095 - Measurement and Evaluation for Recreation Research
Three credits. Three hours of lecture a week.
Fundamental Considerations in Measurement and Evaluation. Procedures, uses, analyses, strengths and weaknesses of different tests in the field of recreation. Introduction to the fundamentals of data collection, management, and statistical analysis.
RECR 4141 - Administration of Recreation Programs I
Three credits. Three hours of lecture a week.
Fundamentals of administrative practices related to the provision of recreational services including; legal aspects of recreational and park services, principles of planning and operation of facilities, recreation areas and parks, financial and/or budgetary procedures, marketing, public relations, principles of organization and coordination of services, personnel administration and evaluation. Face-to-face, hybrid and online course.
RECR 4142 - Administration of Recreation Programs II
Three credits. Three hours of lecture a week.
Fundamentals of administrative practices related to the provision of recreational services including; legal aspects of recreational and park services, principles of planning and operation of facilities, recreation areas and parks, financial and/or budgetary procedures, marketing, public relations, principles of organization and coordination of services, personnel administration and evaluation. Face-to-face, hybrid and online course.

RECR 4145 - Recreational Services Organization in Puerto Rico *Three credits. Three hours of lecture a week. Prerequisites: RECR 3685, 4141 or 4142 and/or coordinator's permit.* Analysis and evaluation of the state of the recreational services system on the island, including the public and private sectors. Emphasis on the organization and scope of such services; visits to recreational organizations and evaluation of the services they offer. This course is designed as a preamble to the recreation boarding school. Face-to-face, hybrid and online course.
RECR 4156 - Seminar on Problems in Recreation, Leisure and Free Time
Three credits. Three hours of seminar per week. Prerequisite: RECR 3820 or RECR 3685. Study of various topics related to recreation, leisure and free time in Puerto Rico. It identifies and analyzes the processes influencing the provision of contemporary recreational services and new trends in such processes. It also examines current issues that affect Puerto Ricans' leisure time behaviors. It can be repeated up to a maximum of six credits.
TEED 3005 - Material Production Techniques - Deployment Techniques

Two credits. Three hours of lecture and three hours of lab per week.
It familiarizes students with the different types of displays, namely: bulletin board, holdograph, exhibits, and posters. It trains the student in the design and production of these.
TEED 3006 - Material Production Techniques– Transparencies
Two credits. Three hours of lecture and three hours of lab per week.
It familiarizes the student with the methods of producing transparencies, namely: hand- playing, color, harmony, and image transfer. It includes the design and production of transparencies using each of these methods.
TEED 3007 - Material Production Techniques - Still Photography
Two credits. Three hours of lecture and three hours of lab per week.
It familiarizes the student with the different basic types of cameras, their use and handling. It provides training in the process of developing black and white film and in some basic laboratory techniques.
TEED 3008 - Introduction to Educational Technology
Three credits. Three hours of lecture a week.
It analyzes the role of educational technology in contemporary education. It relates the student to the concept of instructional systems, the various materials and technological equipment, their characteristics, potentialities and limitations. It discusses the role they play in teaching, learning, and communication

processes.
TEED 3015 - Evaluation and Selection of Technology Resources Three credits. Three hours of lecture a week. Prerequisite: TEED 3008 or instructor's permit.
It offers students the opportunity to work intensively with the different audiovisual resources in order to learn to evaluate them, to recognize their merits, their limitations and to apply them at those levels or grades for which they are best suited. Familiarize the student with all the local and foreign sources that can supply audiovisual material.
TEED 3016 - Systematic Instructional Design
Two credits. Six hours of lecture per week. Prerequisite: TEED 3008.
Development of basic skills involved in systematic instructional design. Emphasis on day-to-day and topical planning. Analysis of the relationship that must exist between the learning that is intended to be achieved and the dynamics in which the student is involved.
TEED 3017 - Integrating Instructional Technology and Computer into the Elementary Level Curriculum
Three credits. Three hours of lecture a week.
Study of the elements of instructional design to select, evaluate, and correctly use technology in the teaching-learning process. It includes the design and development of low-cost materials using the computer, among others. It provides experiences for the integration of instructional programs into the elementary level curriculum. Some of these are field experiences in various educational settings in which the future teacher can observe, develop and implement teaching-learning experiences that integrate technology to promote student learning. Face-to-face, online course

e hybrid.
TEED 3018 - The Integration of Instructional Technology and Computer into the Secondary Level Curriculum *Three credits. Three hours of lecture a week.*
Study of the elements of instructional design to select, evaluate, and correctly use technology in the teaching-learning process. Includes basic experiences
and various questions about the use of the computer and its integration into the
curriculum. Some of these constitute field experiences in various educational scenarios in which the future teacher can observe, develop and implement teaching-learning experiences that integrate technology in order to promote student learning. Online and hybrid face-to-face course.
TEED 3020 - Production of Instructional Modules
Two credits. Six hours of lecture for five weeks.
Course to train the student in the design and production of an instructional module. It analyzes the relationship between the function of the module and distinctive characteristics.
TEED 3027 - The Technology of Instruction and Computer Use in Early Childhood Education
Three credits. Three hours of lecture a week.
Design, development, and validation of instructional materials that promote the early child's active exploration and curiosity with his or her environment. It includes the production of concrete and iconic materials and the appropriate use of the computer according to the stages of development of the preschool child, the course includes field experiences in various educational scenarios in which the future teacher can observe, develop and implement teaching-learning experiences that integrate technology to promote the learning of the early child. Face-to-face, online and hybrid course.
TEED 3035 - Integrating Telecommunications into the Classroom

Three credits. Three hours of discussion a week.
Study of the use of telecommunications as an effective means for the enrichment of the teaching-learning process. Basic knowledge is imparted to identify, locate and exchange information. Discussion of the vocabulary, equipment, and obstructive strategies that a teacher may use for distance communication.
TEED 3045 - Telecommunications for Education II: Project Design and Websites
Three credits. One hour of lecture and about two hours of discussion per week. Prerequisite: TEED 3035.
Analysis of the benefits it offers for educators and students of online collaborative projects. Design of

instructional projects and development of electronic pages using online telecommunications.
TEED 3125 - Educational Communication
Three credits. Three hours of lecture a week.
Study of the principles of design of educational messages and verbal and non-verbal communication
and visual. It develops in the future professional of education the knowledge and skills necessary to use digital media for the purpose of designing, planning and producing educational messages through printed or electronic materials in which text, images and images are incorporated
y sound. Face-to-face, hybrid and distance learning courses.

TEED 4005 - Material Production Techniques - Screenwriting
Two credits. Three hours of lecture and three hours of lab per week.
It trains the student with the basic elements needed in screenwriting. It also familiarizes them with those forms of expression whose knowledge is necessary to write librettos. In addition, the student is related to those elementary principles in the production of a script for the narration of a series of transparencies.
TEED 4007 - Instructional Technology Program Administration
Three credits. Three hours of lecture a week. Prerequisite: TEED 3008 and 3015.

The most important aspects in the organization, supervision and administration of audiovisual programs, both in elementary and secondary school. Analytical and critical study of existing programs and their possible adaptation to our school system. Principles and practices for vitalizing teaching through the use of audiovisual materials. The duties of the audiovisual education coordinator.
TEED 4009 - Seminar on Educational Technology
Four credits. One hour of lecture and three hours of laboratory time per week.
Planning of an independent study program with audio-visual aids. The use of programmed instruction, 8mm films will be discussed. On cartridges, closed-circuit television systems and the concept of learning resource centers and other related topics.
TEED 4016 - Material Production Techniques– Television
Two credits. Three hours of lecture and three hours of laboratory.
Theory and practice in closed-circuit television production. You will provide laboratory experiences with an emphasis on screenwriting, camera handling, lighting, television visual production, and directing techniques.
TEED 4017 - Material Production Techniques - Audio Experiences

Two credits. Three hours of lecture and three hours of lab per week.
It provides basic knowledge for the production of auditory materials such as recordings on tapes (reel and cartridge, page and sound card). It also includes the selection, evaluation, use and maintenance of recorded material.
TEED 4018 - Introduction to Computers in Education
Three credits. Three hours of lecture a week. Prerequisite: B.A.
Introduction to computer integration in education. Emphasis on evolution, impact
and educational implications, the theories that support their integration, the analysis of studies and research, the evaluation and selection of educational programs. Practice with some programs. Study of the basics of designing a lesson for computers.
TEED 4020 - Computer-Based Learning
Three credits. Three hours of lecture per week; In addition, practical exercises will be required, at the student's expense, in the microcomputer laboratory. Prerequisite: TEED 4018.
Provide the student with the opportunity to produce a lesson to be used on microcomputers using the full potential of the medium. Students interact with different types of computer-assisted instruction, languages, and assessment media available to microcomputers in the educational area.
TEED 4027 - Slide Production for Education

Three credits. One hour of lecture and five hours of laboratory per week. Prerequisite: TEED 3009. Special emphasis is placed on the visualization of ideas in sequence, production approach, script writing, slide production, and still films. It is required to produce a series of slides or a still film.
TEED 4028 - Design and Production of Teaching Materials for the Primary Level

Two credits. Two hours of lecture per week. Prerequisite: Principal's permission.

It aims to develop in the student the basic skills of design and production of simple materials for teaching at the primary level.
TEED 4029 - Educational Radio and Television
Three credits. Three hours of lecture a week.
Principles, practices and the use of radio and television in the field of education. Emphasis on the following aspects: program production, script and guide writing, and other aspects related to the field.
TEED 4030 - Production Techniques: Designing Electronic Presentations for the Classroom
A credit. Prerequisites: None
The advantages and limitations of the means and schedules used for electronic submissions are discussed. The student will design and develop an electronic presentation appropriate for the classroom incorporating multimedia.
TEED 4036 - Educational Film Production
Four credits. Two hours of lecture and three hours of workshop per week.
Introduction to the fundamentals in the planning and production of educational films. Laboratory experience in the use of cameras, production, direction, lighting, editing, sound recording, script presentation and special effects. The film as a means of enriching educational programs.
TEED 4038 - Productivity Software for Microcomputers
Three credits. Three hours of lecture a week. Prerequisite: TEED 4018.
It prepares the teacher in the use of programs that facilitate their administrative work, such as: keeping records of students, drafting documents, preparing brochures and keeping inventories, among others.
TEED 4039 - Educational Technology for Adult Education
Three credits. Three hours of discussion a week. Prerequisite: EDFU 4058. Corequisites: EDPE 4305, 4125 and 3215.
Study of: the different modalities of educational technology and its application in adult education, the basic concepts of instructional design, selection and evaluation of technological resources for instruction. Educational materials will be produced. Learning opportunities and design of educational experiences using Internet and World Wide Web technologies are incorporated.
TEED 4045 - Computer Lab Management
Three credits. Three hours of lecture a week. Prerequisite: TEED 4018.
Development of the administrative competencies necessary to carry out the common activities of a school computer laboratory: preparing inventories, purchasing equipment and materials, planning seminars, preparing budgets, and evaluating and integrating materials into the elementary and secondary school curriculum.
TEED 4046 - Seminar: Trends in Educational Technology
Three credits. Three hours of lecture a week. Prerequisite: TEED 4007.
Analysis of issues and problems of theoretical and practical interest in the field of educational technology. New trends in educational technology, their impact on teaching-learning processes and the development of technological projects are discussed. Emphasis is placed on
research related to the design and development of technology initiatives and their impact on the educational process.
TEED 4047 - Production Techniques: Electronic Design of Publications for the School Environment
Two credits. Four hours of discussion and two hours of lecture per week.
Discussion of the advantages and limitations of electronic publications in the school environment. Analysis of the importance of design and graphic elements in the verbal and visual communication of

printed messages created in the electronic medium of computers. Emphasis on the uses, classific ation, advantages and disadvantages of the different types of typography. Students will manipulate and edit images in various artistic manifestations such as: related concepts, related images, illustrations, *clip arts*, and photography. They will produce school newspapers, newsletters, brochures, manuals, leaflets, among other creations.

TEED 4995 - Innovative Projects in Educational Technology
One to three credits.
The advantages and limitations of the media and programs used for electronic submissions are discussed. The student will design an appropriate electronic presentation for the classroom incorporating multimedia.
TEED 5005 - Theory and Practice of Distance Learning
Three credits. Three hours of lecture a week.
Study and analysis of distance learning theory and practice assessment. It includes the study of methods for the design, elaboration, presentation and evaluation of the distance lesson.
Emphasis on interactive video conferencing.
TEED 5006 - Digital Storytelling in Education and Technology
Three credits. One hour of lecture and two hours of workshop.
The main objective of this course is to provide knowledge about the integration of digital video technology into the curriculum based on theoretical principles and research on the use of digital video technology (DV) and digital dialectics as an educational practice. Students will go through the process of generating an idea as a result of their research on a curricular topic. They will write a mini-proposal for community projects based on the art of digital storytelling and prepare a model for teaching digital storytelling methodology to the classroom. This block of activities will culminate with the filming of the digital films created that will be designed for an electronic portal. They will also explore various technologies for video editing on both PC and Mac platforms. The course includes a content manual with technical and digital production aspects.

COLLEGE OF GENERAL STUDIES

Web page: https://generales.uprrp.edu/
Tel.: (787) 764 0000, ext. 88601
Email:
Address: 12 Ave. Universidad STE 1201 San Juan, P.R. 00925-2532

Administration

Dean: Dr. Carlos J. Sánchez Zambrana
Associate Dean: Dra. Eunice Pérez Medina
Associate Dean of Student Affairs: Mrs. Virgenmarie Vega Zayas
Associate Dean of Administrative Affairs: Mrs. Gisella Rodríguez Ramos
Department Chairs

Interim Director, Department of Biological Science: Dr. Gerardo Arroyo Cruzado

Interim Director: Physical Science Department: Profa. Eileen M. Cruz Pastrana

Interim Director, Social Science Department: Dra. Doris G. Quiñones Hernández

Interim Director, Spanish Department: Dra. Vivian Auffant Vázquez

Interim Director, Humanities Department: Dr. Víctor L. Ruiz Rivera

Interim Director, English Department: leine Hudders

Director Bachelor's in Arts in General Studies Program: Dr. Juan C. Delgado Rodríguez

Program/Area Coordinator

Coordinator Minor in Human Rights: Dr. Waldemiro Vélez Cardona

Coordinator Minor in Women and Gender Studies: Dra. Alexandra Pagán Vélez

Coordinator Minor in Tangible Cultural Patrimony: Dr. Estevão Rosim Fachini
Coordinator Minor Major in Transdisciplinary Studies and Research on Afro descendance: Dr. Pablo L. Rivera
Coordinator Emphasis Area in Transdisciplinary Studies on Music: Dr. Ángel Olmeda Avilés

History

Emerging from the academic and administrative reform of 1942–1943, the Division of General Studies was established and later became the Faculty of General Studies in 1945. Within this Faculty, the Bachelor of Arts in General Education program was inaugurated during the 1955–1956 academic year, graduating from its first class in 1958. Since its inception, the program has been recognized for the quality of its academic offerings, faculty, and students. It remains the only program in Puerto Rico to offer a bachelor's degree in general education. Currently, it includes four minors that reflect engagement with cutting-edge, interdisciplinary, and inclusive areas of knowledge.

Within the university system, the Faculty stands out as a multi- and interdisciplinary academic community where three major fields of knowledge converge: the humanities, the social sciences, and the natural sciences. Language studies are also integrated, with both vernacular Spanish and English taught through literary and linguistic components.

The Faculty of General Studies provides part of the core curriculum and other general education courses for students at the Río Piedras Campus. It also offers a Bachelor's degree in General Studies and other curricular options. Its mission centers on holistic student development, interdisciplinary teaching and research, knowledge integration, and artistic creation. The Faculty enriches the University's cultural and intellectual environment through co-curricular activities, community engagement, and international partnerships and consortia.

The architectural "Ramp" that symbolizes the Faculty's building represents the aspiration for intellectual ascent—an *Anábasis* of youth filled with hope. It also signifies a forward-looking path where the integration of knowledge and the cultivation of critical citizenship, inspired by the philosophy of *Ubuntu*, define the Faculty's vision and mission.

Recognitions and Accreditations

Degrees Offered

- Bachelor of Arts in General Studies

Minors Available

- Minor in Women and Gender Studies
- Minor in Human Rights
- Minor in Transdisciplinary Studies and Research in Afrodescendance
- Minor in Tangible Cultural Heritage Conservation
- Transdisciplinary Emphasis Courses in Music

Student Services

- Physical Sciences Laboratories
- Biological Sciences Laboratories
- Ángel Quintero Alfaro Library
- Student Affairs Office and Counseling Services
- Physical Sciences Research Center
- Biological Sciences Research Center

Upward Bound Program

The Upward Bound Program is funded by the U.S. Department of Education and the University of Puerto Rico. It is designed to provide academic support to 88 economically disadvantaged high school students—potential first-generation college students—from grades 9 through 12 who attend schools near the Río Piedras Campus.

The program's main goals are to foster academic motivation and encourage participants to pursue higher education. Qualified students receive both in-person and virtual services, including:

- Tutoring in science, mathematics, English, and Spanish
- Academic enrichment classes
- Counseling and guidance services
- Workshops (STEAM, foreign languages, physical education, dance, etc.)

- Summer camp
- Conferences (e.g., Leadership Congress)
- Extracurricular activities (theater productions, team-building exercises, sports competitions, academic olympiads, literary contests)
- Opportunities to complete required green contact hours and community service hours
- Test preparation for the College Board's University Admission Test (PAA)
- Financial support for PAA and Advanced Placement Tests (PNA)
- College Transition Seminar
- Job shadowing opportunities
- University campus visits
- Career exploration activities
- Individualized assistance with financial aid applications (FAFSA)
- Student travel and exchange opportunities
- Parent workshops

Student Support Services Program (SSSP)

The Student Support Services Program (SSSP) was established under Title IV of the Federal Higher Education Act and is funded by the U.S. Department of Education. It is designed to support first-generation college students, students from low-income backgrounds, and students with disabilities in successfully completing a bachelor's degree.

A hallmark of the program is its Pre-University Summer Program, which annually selects a cohort of students to participate in a guided transition experience to help them adapt to university life. Upon completion, participants receive ongoing academic support for up to six years.

The program offers a wide range of services, including:

- Academic follow-up and mentoring
- Counseling and guidance
- Tutoring and academic advising
- Financial literacy and economic guidance
- Exposure to cultural activities and educational travel
- Individualized assistance with financial aid applications
- Parent workshops

The federal grant supporting the program is renewed every five years.

Talent Search Program

The Talent Search Program is sponsored by the U.S. Department of Education and is housed within the Faculty of General Studies at the University of Puerto Rico, Río Piedras Campus. It provides educational services to 1,046 students from public schools in the San Juan, Fajardo, and Vieques school districts. The program also supports individuals over the age of 18 who have not completed high school.

Services Offered:

- Tutoring in core subjects and computer literacy

- Personal, academic, and career counseling
- Workshops on academic, personal, career, and cultural topics
- Academic and cultural trips, including visits to universities and workplaces
- Test preparation for the College Board's University Admission Test (PAA)
- College readiness support
- Preparation for placement exams (9th grade) and high school equivalency exams (12th grade)
- Assistance with college admissions and financial aid applications (FAFSA)

Eligibility Requirements:

- Interest in pursuing postsecondary education
- Enrollment in a public middle or high school in the San Juan, Fajardo, or Vieques districts
- Low-income background
- Parents have not earned a bachelor's degree
- Have not completed high school
- Adults interested in resuming their education

Educational Innovations Program (PIE)

The Educational Innovations Program (PIE) was established in 2007 as a result of the restructuring of the Continuing Education Program for Adults (PECA), which had previously been part of the Division of Continuing Education and Professional Studies (DECEP) since its founding in 1972. This restructuring marked the most significant change in the program's 42-year history.

Currently, PIE includes three key initiatives:

- Continuing Education Program for Adults (PECA)
- Academic Support Program for Students with Skill Development Needs (PAAED)
- High-Performance Athlete Recruitment Program (PRAAR)

PIE serves non-traditional students who are admitted to the Río Piedras Campus through a special admissions process. Participants benefit from personal and academic counseling, as well as tutoring in all core subjects.

PECA Admission Requirements:

- Be 21 years of age or older
- Have a high school GPA of 2.00 or its equivalent
- Provide evidence of current or past employment
- Take the College Board entrance exam no later than February of the application year
- Have no prior university-level studies
- Be a U.S. citizen or legal resident

This forward-thinking program serves as a bridge to higher education for students who do not meet traditional admissions criteria. It offers working adults the opportunity to pursue university studies and contribute to the country's development.

PECA recognizes adult life experience as a valuable asset in the learning process. It promotes

dialogic methods, critical thinking, and motivation for learning, integrating professional, social, and cultural aspects of adult life into the educational experience.

Pre-Basic Summer Course Requirement:

Applicants must complete a summer pre-basic course consisting of four subjects: Spanish, English, Mathematics, and Study Habits. A minimum score of 70% is required to pass; for students applying to the Faculties of Natural Sciences or Business Administration, a score of 90% in Mathematics is required. Upon completion, the Admissions Committee—composed of Student Affairs Deans from various faculties—reviews each applicant's academic record to determine admission.

PECA features a dedicated team of tutors in Spanish, English, Humanities, Social Sciences, Biological Sciences, and Mathematics, along with experienced faculty specializing in adult education. The program also includes a Student Affairs Officer and a director who provides continuous academic and administrative support.

Evening Academic Offerings Include:

- Spanish
- Humanities
- Social Sciences
- English
- Mathematics
- University Life Adaptation Workshops (EDCO)

PIE promotes its offerings through student fairs, radio and television programs, and mass media advertising across the island.

Interdisciplinary and Multicultural Institute (INIM)

The Interdisciplinary and Multicultural Institute (INIM) was established to promote international academic exchange, offer language curriculum for international students, and develop non-traditional, interdisciplinary academic programs during regular semesters and summer sessions. INIM operates as an autonomous unit under the Dean's Office of the Faculty of General Studies.

As a unique and innovative initiative within the University of Puerto Rico system, INIM was created in alignment with the UPR's Systemic Strategic Plan. It responds to the need and desire to:

- Provide an international perspective to curricular content and academic experiences, rooted in Puerto Rico and the Caribbean
- Strengthen exchange programs, with a focus on international partnerships
- Establish collaborative efforts with other universities, industry, commerce, and government—both within and beyond Puerto Rico

Admission Requirements

The Bachelor of Arts in General Studies considers the following criteria for first-year student

admission:

- Completion of a high school diploma
- Minimum General Admission Index (IGS) required for the academic year
- Completion of the College Board entrance exam
- Minimum overall GPA of 2.50
- Participation in an academic interview

New Student Application Process:

- Submit the University of Puerto Rico admission application
- Meet the IGS requirement established by the Faculty
- Interview with the Program Director

Readmission

Students seeking readmission to the Bachelor of Arts in General Studies program must meet the following criteria:

- Internal applicants (from the same campus): readmission is generally accepted.
- External applicants (from other campuses or institutions) must:
    - Have completed a minimum of 24 academic credits
    - Hold a cumulative GPA of 2.50 or higher
    - Participate in an interview with the Program Director
    - Submit the readmission application to the Registrar's Office by the deadline indicated in the academic calendar

Reclassification

Students transferring from other faculties within the University of Puerto Rico must:

- Have completed a minimum of 24 academic credits
- Hold a cumulative GPA of 2.50 or higher
- Participate in an interview with the Department Director
- Submit the reclassification application to the Registrar's Office by the deadline indicated in the academic calendar.

Transfer

Students requesting a transfer from another academic unit within the University of Puerto Rico system must:

- Submit the transfer application to the Registrar's Office of their current unit
- Have completed a minimum of 30 academic credits
- Hold a cumulative GPA of 2.50 or higher
- Participate in an interview with the Program director

Transfer from Other Institutions

Applicants seeking admission from other accredited universities or private colleges must meet the following requirements:

- Submit the application to the Admissions Office by February 15 for the First Semester, or by September 15 for the Second Semester
- Have completed a minimum of 30 academic credits
- Hold a cumulative GPA of 2.50 or higher
- Participate in an interview with the Program Director

Special Permissions

Students requesting special permission must submit the authorization form to the Registrar's Office of their current academic unit.

Graduation Requirements

To graduate with a Bachelor of Arts in General Studies, students must:

- Maintain a minimum cumulative GPA of 2.00
- Successfully complete 126 academic credits, distributed as follows:
    - 42 credits in General Education courses
    - 51 credits in core bachelor's degree requirements
    - 18 credits in free electives, which may be taken within the Faculty of General Studies or other faculties
    - 15 credits in an area of emphasis or a structured set of courses
    - Completion of a senior thesis, which demonstrates the development of research skills and integration of knowledge

ACADEMIC PROGRAMS

BACHELLOR OF ARTS IN GENERAL STUDIES

FIRST YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESPA (Depending on the level)	3	ESPA	3
ENGLISH (Depending on level)	3	ENGLISH	3
HUMA	3	HUMA	3
CIBI or CIFI	3	CIBI or CIFI	3
CISO	3	CISO	3
		ESGE 3008 Mathematical Logical Reasoning and Quantitative Analysis	3

SECOND YEAR ***THIRD YEAR***

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESGE 4121 Epistemological Foundations of the Humanities I	3	ESGE 4122 Epistemological Foundations of the Humanities II	3
ESGE 4161 Epistemological Foundations of the Social Sciences I	3	ESGE 4162 Epistemological Foundations of the Social Sciences II	3
Area of emphasis or structured set of courses	3	Area of emphasis or structured set of courses	3
ESGE 3163 Epistemological Problems in the Construction of Knowledge III	3	ESGE 4186 Epistemological Foundations of the Physical Sciences	3
Elective	3	ESGE 4101 Research Methodology and Techniques	3

FOURTH YEAR

FIRST SEMESTER REQUIRED COURSES	CRS.	SECOND SEMESTER REQUIRED COURSES	CRS.
ESGE 4141 Puerto Rican Thought and National Reality	3	ESGE 4142 Puerto Rican Thought and National Reality	3
ESGE 4102 Interdisciplinary Research: Dissertation, Research Experience, Authoritative Work	3	ESGE Integration Seminar (Registration Process)	3
ESGE 4185 Epistemological Foundations of the Biological Sciences	3	Area of emphasis or structured set of courses	3
Elective	3	Elective	3
Elective	3	Elective	3

TOTAL CREDITS 126

Minor in Women's and Gender Studies (15 Credits)

Open to students in all academic majors at the Río Piedras Campus.

Required Courses (9 credits)

Course	Title	Credits
INTD 3036	Feminist Theory and Methodologies	3
INTD 3045	Gender Debates	3
INTD 5115	Advanced Seminar on Gender Studies	3

Elective Courses (Choose 2 courses; 6 credits)

Course	Title	Credits
INTD 3035	Seminar on the History of Women and Gender in Puerto Rico	3
INTD 3037	Gender and Performance	3
INTD 3046	Women's Writings	3
INTD 3055	Introduction to Masculinity Studies	3
INTD 4046	Body Politics	3
INTD 4990	Gender, Sexualities, and Writing	3–6
INTD 4991	Body Practices	3–6

INTD 4992	Gender and Education	3–6
INTD 4993	Gender and Visualities	3–6
INTD 4997	Gender and Philosophy	3–6
INTD 4999	Gender Readings Seminar	3–6

Total Credits Required: 15 credits.

Minor in Tangible Cultural Heritage Conservation (10–13 Credits)

Open to students in all academic majors at the Río Piedras Campus.

Required Courses

Course	Title	Credits
ESGE 3333	Introduction to Artifact Conservation	3
ESGE 4444	Final Project in Conservation	1–4

Science Elective (Choose one)

Course	Title	Credits
CIFI 3074	Materials in Art and Conservation	3
CIFI 3075	Science and Art	3
CIFI 4074	Materials Science in Art	3
CIFI 4075	Science and Technology in Art	3
ANTR 4096	Analysis of Archaeological Materials	3

Elective Course (Choose one)

Course	Title	Credits
BEOF XXXX	Any approved BEOF course	3
COMA 4011	Basic Photography I	3
ART 3815	Painting Processes I	3
ART 3711–3712	Photography Processes I	3
ART 4926	Experimental Paper Workshop I	3
ART 3615	Sculpture Processes I	3
ART 3936	Aqueous Media	3

Total Credits Required: 10–13 credits.

TEACHING FACULTY AND ADMINISTRATIVE STAFF

1. Acevedo Rodríguez, Rafael; Ph.D., State University of New York, 1990; Catedrático.
2. Adams Stone, Jessica; Ph.D., J.D., Tulane University, 2001; Catedrática Asociada.
3. Alonso Fuentes, María E.; Ph.D., University of Massachusetts, 1986; Catedrática.
4. Álvarez Burgos, Rafael H.; MA, New York University, 1984; Catedrático Auxiliar.
5. Álvarez López, Manuel A.; MA, Yale University, 1981; Catedrático Auxiliar.
6. Aponte Ramos, Dolores; Ph.D., Northwestern University, 1992; Catedrática.
7. Armstrong Pedersen, Clifton D.; Ph.D., Universidad de Puerto Rico-Río Piedras,

2006; Catedrático Auxiliar.

8. Arroyo Cruzado, Gerardo; Ph.D., Universidad de Puerto Rico-Río Piedras, 2000; Catedrático.
9. Auffant Vázquez, Vivian; Ph.D., Temple University, 1986; Catedrática.
10. Ayarza Real, Carlos J.; Ph.D., Universidad de Puerto Rico-Mayagüez, 1994 Catedrático Auxiliar.
11. Benítez Laborde, Edna M; Ph.D., State University of New York, 1998; Catedrática.
12. Bollentini Granata, Chiara; Ph.D., Universidad de Milán, 1992; Catedrática
13. Cabán Sosa, Claribel; Ed.D., Universidad de Puerto Rico-Río Piedras, 1999; Catedrática.
14. Cámara Walker, Brenda A.; Ed.D., Universidad de Puerto Rico-Río Piedras, 2006; Catedrática.
15. Collazo Santos, Marta; Ph.D., Universidad de Puerto Rico-Ciencias Médicas, 2001; Catedrática Asociada.
16. Colón León, Virgilio; Ph.D., Johann W. Goethe University, 1993; Catedrático.
17. Colón Parrilla, Wilma V.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2002; Catedrática.
18. Corrales, José R.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1997; Catedrático.
19. Cruz Cortes, Raúl Armando; Ph.D., University of Massachusetts, 1993; Catedrático.
20. Cruz, Norma E.; Ph.D., Indiana University, 1993; Catedrática Asociada.
21. Cruz Lugo, Clarisa A.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1997; Catedrática.
22. Cruz Pastrana, Eileen M.; M.Sc., Rensselaer Polytechnic Institute, 1993; Catedrática Auxiliar.
23. Cucher Kraft, Michael; Ph.D., University of Southern California, 2011; Catedrático Auxiliar.
24. Dávila Santiago, Rubén; Ph.D., École Des Hautes Études, 1980; Catedrático.
25. De la Luz Rodríguez, Gabriel; Ph.D., University of Massachusetts, 2004; Catedrático Asociado.
26. De la Rosa Tirado, Orlando; Ph.D., Universidad Autónoma de México, 1996; Catedrático Auxiliar.
27. Delgado Rodríguez, Juan C.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2009; Catedrático Asociado.
28. Denis Rosario Yvonne; Ph.D., Centro de Estudios Avanzados de Puerto Rico y el Caribe, 2015; Catedrática Auxiliar.
29. Duprey Colón, Marlene; Ph.D., Universidad de Puerto Rico-Río Piedras, 2003; Catedrática Asociada.
30. Dvorsky Sosa, Elizabeth; Ph.D., Universidad de Puerto Rico, 1996; Catedrática.
31. Edwards, Eva de Lourdes; Ed.D., University of Connecticut, 2001; Catedrática Asociada.
32. Emmanuelli Huertas, Johanna M.; Ph.D., University of Texas-Austin, 1987; Catedrática.
33. Fachini, Estevao Rosim; Ph.D., Universidad de Puerto Rico-Río Piedras, 2002; Catedrático.
34. Ferrao Delgado, Luis A.; Ph.D., Universidad Autónoma de México, 1988; Catedrático.

35. Franco Steeves, Marisa; Ph.D., City University of New York, 2002; Catedrática.
36. Fred Rivera, Ivette; Ph.D., City University of New York, 1997; Catedrática.
37. Fuentes Rivera, Ada G.; Ph.D., State University of New York -Stony Brook, 1999; Catedrática.
38. Galanes Rivera, Ileana T.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2006; Catedrática Asociada.
39. García Archilla, Aurelio Ángel; Th.Dr., Princeton Theological Seminary, 1989; Catedrático.
40. García Padilla, María Emilia; Ed.D., Harvard University, 1994; Catedrática.
41. González López, Libia M.; Ph.D., Universidad de Paris I, 1988; Catedrática.
42. Gutiérrez Laboy, Roberto; Ph.D., Rutgers University, 1991 Catedrático.
43. Jaramillo Nieves, Lorna G.; Ph.D., University of Colorado, 2003; Catedrática.
44. Lanza Amaro, Mario; MSc, Universidad de Puerto Rico-Río Piedras, 1995; Instructor.
45. Lebrón Santos, Mayra E.; Ph.D., Universidad Nacional Autónoma de México., 2000; Catedrática.
46. López Alemán, Ramón; D.Sc., Pennsylvania State University, 2001; Catedrático.
47. López Álvarez Carmen A.; Ph.D., Penn State University, 1995; Catedrática.
48. López Ruiz, Lydia A.; M.A., Universidad de Puerto Rico-Río Piedras, 1972; Catedrática.
49. Luna Pérez, Mara; MEd, Universidad de Puerto Rico-Río Piedras, 2003 Catedrática Auxiliar
50. Maldonado Rivera, Manuel; Profesor Emérito.
51. Marsh Kennerley, Catherine R.; Ph.D., University of California-Berkeley, 2001; Catedrática.
52. Martínez Luengo, Dafne M.; Ed.D., New York University, 2001; Catedrática.
53. Morales de Jesús, Ricardo J.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2002; Catedrático.
54. Morales González, José; Ph.D., Universidad Autónoma de Barcelona, 2005; Catedrático.
55. Nazario Velasco, Rubén; Ph.D., Universidad de Puerto Rico-Río Piedras, 1996; Catedrático.
56. Olivares Chicón, Ángel F.; Ph.D., Universidad Estatal de Moscú-Lomonosov, 1980; Catedrático.
57. Ortiz Márquez, Maribel; Ph.D., State University of New York -Stony Brook, 1993; Catedrática.
58. Passerieu, Marc Jean Bernard; Ph.D., Universidad de París-Sorbona, 1996; Catedrático.
59. Pérez Coffie, Carlos A.; Ph.D., Harvard University, 1994; Catedrático Auxiliar.
60. Pérez Martínez, Luis A.; Ph.D., Syracuse University, 1994; Catedrático.
61. Pittmann Doleto, Cynthia; Ph.D., Universidad de Puerto Rico-Río Piedras, 2013 Catedrática Asociada.
62. Posada Marín, Yury; Ph.D., Universidad de Puerto Rico-Río Piedras, 2005; Catedrático Asociado.
63. Quesada González, Orestes; Ph.D., Universidad de Puerto Rico-Río Piedras, 1993; Catedrático.

64. Quiñones La Fuente, Luis G; Ph.D., Universidad de Puerto Rico-Ciencias Médicas, 2001; Catedrático.
65. Ramos Rosado, Wanda I.; Ed.D., Universidad de Puerto Rico-Río Piedras, 2009, Catedrática Auxiliar.
66. Ramos Vaquero, Wanda, Catedrática.
67. Resto Rodríguez, Edgard R.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1988; Catedrático.
68. Reyes Guzmán, Manuel de J.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1999; Catedrático.
69. Ríos Orlandi, Ethel M., Catedrática.
70. Ríos Villarini, Nadjah; Ph.D., University of Texas, 2004; Catedrática.
71. Rodríguez Centeno, Mabel M.; Ph.D., Colegio de México, 1997; Catedrática.
72. Rodríguez Fraticelli, Carlos U.; Ph.D., University of California, 1983; Catedrático.
73. Rodríguez Lara, Jorge R.; Ph.D., Universidad de La Habana, 1994; Catedrático Asociado.
74. Rodríguez Plaza, Evelyn; Ed.D., Universidad de Puerto Rico-Río Piedras, 2004; Catedrática Asociada.
75. Rosa Vélez, Ángel L.; Ph.D., New York State University, 1992; Catedrático.
76. Rosim Fachini, Estevao; Universidad de Puerto Rico-Río Piedras, 2002; Catedrático.
77. Ruiz Rivera, Víctor L.; Ph.D., City University of New York, 1991; Catedrático.
78. Sánchez Zambrana, Carlos J.; Ph.D., Universidad Nacional Autónoma de México, 1987; Catedrático.
79. Santiago, Janine; Ph.D., State University of New York, 2003; Catedrática Asociada.
80. Santos Febres, Mayra del P.; Catedrática.
81. Savvinov, Alexey A.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2005; Catedrático.
82. Smith Artis, Dorsia J.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2009; Catedrática.
83. Torres Martínez, Juan A.; M.A., City University of New York, 1981; Catedrático.
84. Vala Beauchat, Madeleine A.; Ph.D., University of Michigan, 2004; Catedrática.
85. Vargas Ramos, Everlidis; Ed.D., Universidad de Puerto Rico-Río Piedras, 1997; Catedrática Asociada.
86. Vázquez Miranda, Viveca; M.A., New York University, 1983; Catedrática.
87. Vázquez, José; Ed.D., Universidad de Puerto Rico-Río Piedras, 2003; Catedrático.
88. Vélez Cardona, Waldemiro; Ph.D., Universidad Autónoma de Barcelona, 1998; Catedrático.
89. Verson Vadillo, Lidia A.; Ph.D., University of Pennsylvania, 1999; Catedrática.
90. Vicente Prado, Carlos Luis; Ph.D., Universidad de Puerto Rico-Río Piedras, 1993; Catedrático.
91. Vilches Norat, Vanessa; Ph.D., Brown University, 1990; Catedrática.

GENERAL STUDIES COURSES

CIBI 3005 - Biological Sciences for Preschool and Elementary School Teachers

Three credits. Three hours of lecture and two hours of lab per week.

This course is an alternative, in biological sciences, to fulfill the natural sciences requirement of the general education component. It is designed for preschool and elementary school teacher candidates. It studies the nature of science, the unity and diversity of organisms, cellular organization and function, the continuity of life, and organisms and their natural environment. The study of these topics is aimed at the development of the core concepts of organization, interaction and continuity. The biological topics studied are analyzed from an interdisciplinary perspective.
Includes lab experiences.

CIBI 3006 - Interdisciplinary Course in Biological Sciences with an Emphasis on Environmental Conservation I
Three credits. Three hours of discussion and two hours of lab per week.
The course is an alternative in biological sciences to the natural sciences requirement of the general education component aimed at high school students in environmental design and available to other students. Its goal is to contribute to the integral formation of the student as a human being through the interdisciplinary study of biological sciences. Priority is given to the dialogic method and the development of skills that allow the student to better understand the world and himself. Guest lecturers specializing in the social sciences and architecture will participate. Core concepts of the discipline will be discussed, such as: organization, interaction, homeostasis, continuity and evolution and the relationship of these concepts with the social sciences and other areas of knowledge. The subject of bioethics receives special attention. The course requires three hours of discussion and two hours of weekly lab activities, which can be substituted with fieldwork or off-site travel during weekends. Face-to-face, hybrid and online course.
CIBI 3007 - Interdisciplinary Course in Biological Sciences with an Emphasis on Environmental Conservation II
Three credits. Three hours of discussion and two hours of lab time a week. Prerequisite: CIBI 3006.
A biological sciences course whose goal is to contribute to the integral information of the student as a human being through the interdisciplinary study of biological sciences with an emphasis on environmental issues. The dialogic method and the development of skills that allow the student a better understanding of the world and of himself, to solve problems and make informed decisions are privileged. Talks and workshops will be offered with specialists in environmental, social and urban planning issues. Priority enrollment in the course will be given to students with a bachelor's degree in environmental design, but it is available to students from other areas of specialization. The basic concepts of ecology are discussed and analyzed, which will allow the course to focus on the appreciation, conservation and management of natural resources in Puerto Rico. Sustainable development, sustainable communities, the development of urban forests and eco-cities will also be discussed. Face-to-face, hybrid and distance learning courses.
CIBI 3008 - Ecology and Sustainable Urbanism
Four credits. Four hours of discussion a week.
This elective course provides a view of the world from a multi- and interdisciplinary perspective where the student is introduced to the interaction between communities of organisms, including humans, and their environment. Various strategies are discussed as possible solutions to the problems that arise in the unsustainable use of land and its resources by human beings. Through the dialogic method, the controversies that exist between antagonistic sectors of society such as: ecology, urban planning, public policies and economics are debated. In addition, topics such as levels of complexity in the biosphere, biodiversity, landscape ecology, and sustainable urban design and planning are studied. Educational strategies that will be used include computer technology, field trips, research, and oral presentations.

CIBI 3015 - Research in Biology for the Development of Scientific Literacy: Mechanisms of Homeostatic Regulation *Three credits. Three hours of lecture and two hours of lab per week.*
This course is an alternative in biological sciences, to the natural sciences requirement of the general education component. The common thread of the course will be the study of a process of homeostatic

regulation and how it manifests itself in humans and other animals. Based on the process chosen to be studied in the semester, the topics of nature of science, physiology: structure and function and the cell are developed. The development of scientific culture in students is promoted through study and research in the biological sciences. Students will exercise their ability to integrate and disseminate knowledge through bibliographic research and laboratory experiences. The central axis of this educational approach is the student and his or her critical reasoning process. Through the research carried out, the student has the opportunity to evaluate the socio-historical conditions, as well as the theoretical bases that promote the development of scientific thinking. Face-to-face, hybrid and distance learning courses.

CIBI 3016 - Fundamentals of Biology: Interaction and Continuity of Life

Three credits. Three hours of discussion and two hours of laboratory per week.
This course is an alternative, in biological sciences, to the natural sciences requirement of the general education component. Its goal is to contribute to the integral formation of the student through the study of biological sciences from a multi- and interdisciplinary perspective. The dialogic method is privileged and the technology of reading analysis, research, laboratory experiences and cooperative teaching-learning is used. It stimulates the development of skills that allow the student to better understand the world and himself. The following topics are discussed and analyzed: ecology, reproduction, genetics and organic evolution. Face-to-face, hybrid and online course.

CIBI 3017 – The Biological Science Vision and the Endeavor through film

Three credits. Three hours of discussion and two hours of laboratory per week.
Interdisciplinary course designed as an alternative to meet the natural sciences requirement of the general education component of the university baccalaureate. Through the dialogic method and practical laboratory experiences, the student will analyze the vision that is presented about the biological sciences and the scientific work in commercial cinema. The course covers five topics: 1) biology, the study of life, a natural science 2) the organization of life. 3) the continuity of life and interaction with the environment, reproduction, genetics and nervous system, 4) evolution, how did we become homo sapiens? and 5) ecology, the biosphere, we are part of a living planet. Each topic will be addressed using a concept of current affairs that will be worked from the popular vision presented in the films, contrasting it with the scientific vision presented through texts using an interdisciplinary approach. The student will be able to make a critical analysis of the way in which science is presented in the cinema as a means of communication to the general population, thus allowing them to develop a scientific culture.

CIBI 3018 - Origin and Evolution of Life
Three credits. Three hours of discussion and two hours of laboratory per week.
This course is an alternative in biological sciences to the natural sciences requirement of the general education component. It studies theories of the origin and evolution of life and how they have revolutionized the thinking of the natural sciences, humanities, and social sciences. Biological concepts are studied using a multi- and interdisciplinary educational approach. Through the dialogic method, the following topics are discussed: the nature and methodology of the biological sciences, the origin of biomolecules and cells, principles of genetics, the origin of species by natural selection by Charles Darwin, neo-Darwinism and human evolution. Lab experiences are included.

CIBI 3025 - Investigation in biology for the development of scientific literacy: environmental, evolutive and genetic issues
Three credits. Three hours of lecture and two hours of lab per week.
This course is an alternative in biological sciences, to the natural sciences requirement of the general education component. The topics of ecology, evolution, reproduction, and genetics will be developed. The

central theme of the course could revolve around biotechnology, environmental problems, conservation, and the relationship of evolutionary processes at different levels of organization in nature, among others. The development of scientific culture in students is promoted through study and research in the biological sciences. Students will exercise their ability to integrate and disseminate knowledge through bibliographic research and laboratory experiences. The central axis of this educational approach is the student and his or her critical reasoning process. Through the research carried out, the student has the opportunity to evaluate the socio-historical conditions, as well as the theoretical bases, that promote the development of scientific thinking. Face-to-face, hybrid and distance learning courses.

CIBI 3026 - Fundamentals of Biology: Organization and Homeostasis of Organisms

Three credits. Three hours of discussion and two hours of laboratory per week.

The course is an alternative, in biological sciences, to the natural sciences requirement of the general education component. Its goal is to contribute to the integral formation of the student through the study of biological sciences from a multi- and interdisciplinary perspective. The dialogic method is privileged and technology, reading analysis, research, laboratory experiences, and cooperative teaching and learning are used. It stimulates the development of skills that allow the student to better understand the world and himself. The following topics are discussed and analyzed: nature and methodology of the biological sciences, chemical characteristics of organisms, cellular basis of life, and homeostasis at the level of the organism. Face-to-face, hybrid and online course.

CIBI 3027 - Climate Change and Caribbean Ecological Systems

Three credits. Three hours of discussion and two hours of laboratory work per week.

This course is an alternative in biological sciences to fulfill the natural sciences requirement of the general education component. It provides a vision of the world from a multi- and interdisciplinary perspective where the student is introduced to the interaction between human beings and their environment. Through the dialogic method and scientific research projects, issues related to ecology and scientific discoveries associated with climate change and its effect on the Caribbean will be addressed. The main topics to be covered are: nature of the biological sciences, Caribbean ecology and climate change and its impact on the Caribbean. Includes lab activities and field trips. Face-to- face, hybrid and distance learning courses.

CIBI 3028– Science, Biotechnology and Society

Three credits. Three hours of discussion and two hours of laboratory work per week.

This course is an alternative in biological sciences to fulfill the natural sciences requirement of the general education component. Through the dialogic method, topics related to scientific discoveries and their biotechnological applications are discussed from a multi- and interdisciplinary perspective. Diverse educational experiences are promoted with the purpose of contributing to the integral formation of the student in such a way that he or she can evaluate the way in which biotechnological development impacts society and how society influences biotechnological advancement. The main topics to be covered are nature of the biological sciences, chemistry of life, molecular genetics and biotechnology. Lab experiences are included. Face-to-face, hybrid and distance learning courses.

CIBI 3035 - Ecosystems and Biodiversity

Three credits. Three hours of discussion and two hours of lab per week.

This course is an alternative, in biological sciences, to fulfill the natural sciences requirement of the general education component. It provides an integrative vision between nature and human beings. Through the dialogic method, topics will be discussed where the student is introduced to the ecological diversity and the richness of species in their environment. Diverse educational experiences will be promoted with the purpose of fostering in the student a vision and attitude towards the use of nature's resources in a sustainable way. Educational strategies include field trips, laboratory and field research, oral reports, and reading analysis. The main topics to be addressed are: levels of organization of living things, ecology and ecosystems, biogeochemical cycles, biodiversity, speciation mechanisms and environmental problems. Face-to-face, hybrid, distance and online course.

CIBI 4006 - Forensic DNA Analysis: Legal and Anthropological Impact Studies
Three credits. Three hours of discussion and one hour of lab per week.
Prerequisites: Have completed a required course in biological sciences (CIBI) or its equivalent, or an introductory course in biology and/or chemistry.
This course is offered to students in the faculty of natural sciences as an alternative to fulfill the requirements of the natural sciences component in the faculty of general studies. This interdisciplinary course is an elective in biological sciences and aims to help students become familiar with scientific and technical aspects that act as catalysts in the evolution of social and cultural structures. The dialogic method is used for the presentation and discussion of the various topics. The course includes laboratories in which the student will be in contact with the techniques used in DNA testing through demonstrations and practical experiences. The novel forensic techniques of DNA analysis and the historical, ethical and legal aspects related to them constitute the central theme of the course. The adoption of forensic DNA methodology by molecular anthropologists and their contribution to this area of knowledge is also discussed. The following main topics are discussed: forensic sciences, forensic DNA analysis, and molecular anthropology. Face-to-face, hybrid and online course.

CIBI 4105 - Seminar on Current Controversies in the Biological Sciences

Three credits. Three hours of seminar per week. It can be repeated up to a maximum of six credits.

Seminar of variable content, option to fulfill the requirement of general education in natural sciences aimed at students of the faculty of natural sciences. Current biological issues that give rise to controversies and debates of scientific, technological, social, ethical and humanistic relevance in the national and global context are discussed. Connections are established between the biological topics discussed and other disciplines of knowledge. The student is required to carry out a research project that will be supervised by the professor. The research work will be presented orally and in writing. Face-to-face, hybrid, distance learning and online course.

CIBI 4175 - Social and Bioethical Aspects of Organ Transplant
Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: CIBI 3001, 3002 and/or general biology 1 and 2.
The focus of this course is science, technology and society. It will examine basic scientific concepts, biological/physiological aspects, and the technological advances that have led to the development and utilization of organ transplants and how the use of this technology has impacted society. Normal processes and maintenance of the state of homeostasis will be discussed and what happens when this homeostasis is disturbed, and disease ensues. These concepts will be emphasized to illustrate how scientific knowledge is constructed, and the history of the development of transplants, worldwide and in P.R., and how they have affected the existence of human beings will be presented. The core topic of the course will be organ transplantation, with special emphasis on how it has been developed in the two existing centers in P.R. From an inter- and multidisciplinary perspective, the social, ethical and moral problems that they entail will be discussed, including the concept of death.
CIBI 4991 - Interdisciplinary Issues in the Biological Sciences
One to Six credits. One to six hours of discussion a week.
Elective course of credits and variable topics in which thematic areas of the biological sciences are discussed, through an interdisciplinary approach, characterized by their pertinence, relevance and controversy in contemporary society. Emphasis is placed on the analysis of the applications and implications of the biological sciences and the technologies associated with them in daily work and in informed decision-making.
CIFI 3001 - Introduction to the Physical Sciences I
Three credits. Three hours of lecture and one lab period per week.
The course aims to teach the structure and objectives of scientific knowledge through the discussion and

analysis of original scientific papers. These include selections from most of the prominent scientists who have played a distinguished part in the development of science as a body of knowledge. Celestial and terrestrial motions and the structure of matter are the main problems studied.

CIFI 3002 - Introduction to the Physical Sciences II
Three credits. Three hours of lecture and one lab period per week.
The course aims to teach the structure and objectives of scientific knowledge through the discussion and analysis of original scientific papers. These include selections from most of the prominent scientists who have played a distinguished part in the development of science as a body of knowledge. Celestial and terrestrial motions and the structure of matter are the main problems studied.

CIFI 3003 – Foundations of Significant Changes in the Physical Sciences: Copernican and Newtonian Revolution
Three credits. Three hours of discussion and two hours of lab time a week.
This course is an option to fulfill the physical sciences requirement of the natural sciences component of general studies. It includes the study of. The relationship between the concepts of space, time and motion as exemplified in the study of celestial and terrestrial motions from the perspective of the ancient Greek theories of motion up to the modern conceptions of Newtonian mechanics. The emphasis on the social, historical and epistemological aspects in the construction and development of scientific knowledge provide unity to the course. Laboratory experiences are included to illustrate the subject matter.(c)
CIFI 3004 – Foundations of Significant Changes in the Physical Sciences: Relativistic and Quantum Revolution
Three credits. Three hours of discussion and two hours of lab time a week.
This course is an option to fulfill the physical science requirement of the natural science component of general education. It includes the study of the interrelationship between the concepts of space, time, and motion. These concepts are studied from the perspective of revolutions in modern physics. The transformation of the properties and nature of time and space from Newton to relativistic theory and quantum mechanics is studied in detail. The social, historical, and epistemological aspects of the process of creation and development of scientific knowledge are emphasized, providing unity to the course. Laboratory experiences that illustrate the theme of the course are included.
CIFI 3005 - Basic Course of General Education in Physical Sciences
Three credits. Three hours of lecture and two hours of lab per week. Prerequisite: You must have permission from the faculty of pedagogy.
The fundamental principles of the physical sciences are studied from the point of view of general education. Emphasis is placed on the process of critical analysis and the acquisition of fundamental scientific knowledge.
CIFI 3006 - Computer Literacy
Three credits. Three hours of lecture and discussion and two hours of lab time per week.

The use of the microcomputer as a valuable tool for the refinement of logical and systematic thinking so that students improve their general skills in posing and solving various problems; acquiring a realistic view of the structure, capacity, usefulness, scope and limitations of computers; the attainment of a general knowledge of the historical development of computers, their role in information processing, their social impact, and their cultural and ethical implications.
CIFI 3007 - Physical Sciences and Cybermusic
Three credits. Three hours of discussion and two hours of lab per week.
Interdisciplinary course, designed as an option to meet the natural sciences requirement of the general education component. It incorporates aspects of the physical sciences, humanities, and technologies. The fundamentals of acoustics, the development of musical scales throughout history and technologies applied to music are studied. The student is expected to integrate the topics studied so that he or she appreciates music beyond the aesthetic aspect. The methodology of the course is primarily based on the discussion of

assigned readings.
CIFI 3008 - Computer Science with Logo for Non-Scientists: Intermediate Programming
Three credits. Three hours of lecture a week. Prerequisites: An introductory computer literacy course (college level) and permission from the principal.

Introduction to the principles and methods of computer science using logo (lcsi version). Its presentation and discussion will take place in a different context from that followed in the courses of the major and its technical applications to the natural sciences and commerce. It makes the powerful ideas of computer intermediate programming available to those who are interested in using them as an educational tool, with an eye toward the refinement of mental habits, methods of formal thinking, analytical and synthesis skills, critical and systematic thinking, and reflection on one's own thinking.
CIFI 3010 - Elements of Physical Science for Nutritionists and Dietitians
Three credits. Three hours of discussion and one hour of laboratory work per week.

Topics from the physical sciences are presented, including topics in mechanics and thermodynamics, as well as some aspects of the philosophy of science. Motion and its relative phenomena are studied in the light of ancient cosmological theories and the Newtonian synthesis that lead to the development of the concept of work, energy and the laws of thermodynamics. Emphasis on logic and epistemological aspects in the construction and structure of scientific knowledge. Laboratory activities and applications in the area of nutrition.

CIFI 3013 - Physical Sciences, Technology and Society: Foundations and Interrelationships: Nuclear Science and Technology
Three credits. Three hours of discussion and two hours of laboratory per week.
This course is an option to fulfill the physical sciences requirement of the general education component in natural sciences. Topics from the physical sciences and associated technology are studied through the integration of knowledge at three levels: the epistemological analysis of science and technology; the historical and social development of the thematic content; and the critical examination of the problems associated with the applications, which includes ethical, environmental and social aspects. Its thematic content is: atomic theory of matter in the form of atomic models; ionizing, electronic and nuclear radiation; and instruments and apparatus related to the measurement, production and application of radiation energy in various contexts. The course includes laboratory experiences.
CIFI 3014 - Physical Sciences, Technology and Society: Foundations and Interrelationships: Information Science and Technology
Three credits. Three hours of discussion and two hours of lab time a week.
This course is an option to fulfill the physical sciences requirement of the general education component in natural sciences. Topics of the physical sciences and associated technologies are studied, through the integration of knowledge at three levels: its epistemological and sociological analysis; the historical and social development of the thematic content; and the critical examination of the problems associated with information technologies, which includes ethical, cultural and social aspects. Among the topics examined in detail are the gravitational and electromagnetic properties of matter and its technological products as the basis of the computer revolution. The course also includes laboratory experiences.
CIFI 3016 - Physical Sciences, Nanotechnology and Society
Three credits. Three hours of discussion and two hours of lab time a week.
This course is an alternative in physical sciences to fulfill the natural sciences requirement of the general education component. Topics of nanoscience and the nanotechnology associated with it are studied through the integration of knowledge at three levels: its epistemological analysis, the historical development of the thematic content and the critical examination of the problems associated with its applications, which includes ethical, environmental and social aspects. The thematic content revolves around materials science from the atomic theory of matter. To this end, students are provided with fundamentals and practices that allow them to achieve scientific culture in these fields. Includes lab

experiences.
CIFI 3026 - Origin and Evolution of the Earth
Three credits. Three hours of discussion and two hours of laboratory per week.
This course is an alternative in physical sciences to fulfill the natural sciences requirement of the general education component. Evolution will be discussed, from an epistemological approach, in the context of the transformations of the universe, of our solar system and of the earth, to the appearance of self-replicating molecules. Through the study of cosmological, terrestrial and molecular evolutionary processes, the student will understand aspects such as: the organization of matter, the interaction of systems and the continuity of processes of change. The processes that are part of the evolution of life will be studied using a multi- and interdisciplinary approach. Includes laboratory experiences.

CIFI 3031 - Basic Chemistry Principles I
Three credits. Three hours of lecture and one hour of demonstration per week. Prerequisite: Principal's permission.
Study of the development of atomic theory with emphasis on the basic concepts of chemistry from the perspective of general education.
CIFI 3032 - Basic Chemistry Principles II
Three credits. Three hours of lecture and one hour of demonstration per week. Prerequisite: Director's Permit and CIFI 3031.
Study of the development of atomic theory with emphasis on the basic concepts of chemistry from the perspective of general education.
CIFI 3036 - Energy, Environment and Conservation
Three credits. Three hours of discussion and two hours of lab per week. Prerequisite: Principal's permission.
This course is an alternative in physical sciences to fulfill the natural sciences requirement of the general education component. Through the dialogic method, concepts, principles and methodologies used in the construction of knowledge in the physical sciences pertinent to energy, environment and conservation are studied. Fundamental concepts in the physical sciences will be studied to define energy, work, and power. The history and development of the concept of heat will be examined. The laws of thermodynamics will be studied to understand problems with the use of different energy sources and their polluting effects. Conceptual tools from the physical sciences will be used to analyze and understand the energy and environmental reality of Puerto Rico, from a scientific, socio- historical and ethical perspective. Events related to these topics will be discussed and practical suggestions will be given on how to conserve energy and the environment. Includes laboratory experiences.
CIFI 3037 - Climate Change and Its Global Implications
Three credits. Three hours of discussion and two hours of laboratory per week.
This course is an alternative in physical sciences to fulfill the natural sciences requirement of the general education component. It studies the earth, its systems and global climate change. The complexity of the Earth system is analyzed, addressing the construction of knowledge about the environment, the scientific and technological factors that underlie development on a planetary scale, our impact on the Earth's climate and its implications. Conceptual models and visualizations are incorporated, such as the use of systemic and dynamic modeling as a technological tool. Biochemical cycles and anthropogenic impact on the environment are examined. The topics are treated from an interdisciplinary perspective, highlighting ethical aspects. The student investigates the implications of global climate change. It includes technological and laboratory experiences.
CIFI 3041 - Foundations of Scientific Knowledge I
Three credits. Three hours of lecture a week. Prerequisite: For pharmacy students.

The course includes some of the main topics related to the foundations of the natural sciences and scientific knowledge.

CIFI 3042 - Foundations of Scientific Knowledge II
Three credits. Three hours of lecture a week. Prerequisite: CIFI 3041.

Examination of some central problems of the philosophy of science, the nature of scientific explanation and prediction, confirmation and falsification as a criterion of demarcation of a scientific theory, causality, induction and contrast.

CIFI 3055 - Foundations and Development of the Physical Sciences: Movement
Three credits. Three hours of lecture and two hours of laboratory time per week.
This course is an option to fulfill the physical science requirement of the natural science component of general education. It includes the study of concepts, principles and methodologies used in the construction of knowledge in the physical sciences. Original scientific works are analyzed and discussed with a view to appreciating how scientific discourses are constructed, deconstructed, and reconstructed. Epistemology runs through content, emphasizing the system of the universe and motion. The socio-historical context in which the processes of formation of scientific knowledge take place is discussed. Includes laboratory experience. Face-to-face, hybrid and online course.

CIFI 3065 - Foundations and Development of the Physical Sciences: Atomic Theory
Three credits. Three hours of lecture and two hours of laboratory time per week.

This course is an option to fulfill the physical science requirement of the natural science component of general education. It includes the study of concepts, principles and methodologies used in the construction of knowledge in the physical sciences. Original scientific works are analyzed and discussed with a view to appreciating how scientific discourses are constructed, deconstructed, and reconstructed. The development of atomic theory and the socio-historical context that permeates it are studied in order to respond to the central problem, which is the explanation of the physical and chemical behavior of matter. Includes lab experiences. This course will be offered in face-to-face, hybrid, and online modalities.
CIFI 3115 - Fundamentals and Origin of Classical Mechanics: Selected Concepts and Principles
Three credits. Three hours of discussion and two hours of lab time a week.
This course is an option to fulfill the physical science requirement of the natural science component of general education. Emphasis is placed on the study of motion, giving attention to concepts such as superposition of forces and static equilibrium, among others, including the rotation of rigid bodies. Epistemology and some aspects of the socio-historical development of classical mechanics serve as the basis for working with selected concepts and principles of this discipline, and with the method used in the construction of scientific knowledge. Some original works are analysed and discussed with a view to appreciating how scientific discourses are constructed, destroyed and reconstructed. Includes laboratory experiences.
CIFI 4005 - Comparative Views of the Origins of Physical Reality, Matter and the Universe.
Three credits. Three hours of discussion per week.

The course is aimed at students of the faculty of natural sciences, as an option to fulfill the natural sciences requirement of the component in general education. This lab-free seminar will study the content, development, and physical foundations that underpin various modern cosmogonic views in the areas of cosmology, evolutionary biology, and physics of fundamental interactions. Topics such as: the theory of the "Big Bang", the formation of the solar system, the emergence of life and intelligence on earth, the ultimate constitution of matter, the fundamental nature of physical reality, the possibility of other dimensions or other universes, the possibility of time machines, the exploration of space, and the relationship between science and religion will be examined. Modern scientific theories will be treated as attractive stories accessible to
non-experts. Frequent use will be made of technological learning resources. Face-to-face, hybrid and

online course.

CIFI 4043 - Man and Scientific Creation I
Three credits. Three hours of discussion a week. Prerequisite: Principal's permission. Comparative examination of what has constituted empirical science in different epochs, made from the perspective of man as maker and builder of scientific knowledge. The emphasis is on
the dynamic nature of science, both in its substantive contents and in its overall work. Emphasis on contrasting the conceptions of science of antiquity, the Middle Ages and the modern (20th century).

CIFI 4044 - Man and Scientific Creation II
Three credits. Three hours of discussion a week. Prerequisites: Director's Permit and CIFI 4043.

Comparative examination of what has constituted empirical science in different epochs, made from the perspective of man as maker and builder of scientific knowledge. The emphasis is on the dynamic nature of science, both in its substantive contents and in its overall work. Emphasis on contrasting the conceptions of science of antiquity, the Middle Ages and the modern (20th century).

CIFI 4995 - Interdisciplinary Topics in the Physical Sciences
One to six credits. One to six hours of discussion per week.
Course aimed at students of the faculty of natural sciences, option to fulfill the natural sciences requirement of the component in general education. Seminar, without laboratories, on variable topics that will address a particular area of the physical sciences that provides the student with opportunities to establish interdisciplinary bridges with other areas of study and to develop research, analysis, literature search, critical discussion, and argumentation skills, with reliable evidence. The student will learn about specific content of current relevance and emphasis will be placed on how to establish bridges and comparisons with academic disciplines that can impact and be impacted by the topics under study in the course, especially in relation to the major areas of knowledge: humanities, social sciences, natural sciences and associated technologies. The student can repeat the course with another topic. This course was previously CIFI 4015.
CIFI 4996 - Undergraduate Research in Physical Sciences
One to three credits. One to three hours of discussion and 4 to 12 hours of research a week. Prerequisite: Authorization from the head of the department.
Elective course that offers the high school student a research experience led by professors attached to the department of physical sciences in a subject area of their interest. The course fosters the development of competencies in scientific research and highlights the connections between the areas of study of the physical sciences and their ethical and technological context. The student will develop their project in various work scenarios, such as research laboratories, libraries, computer centers, among others, until they complete the total number of scheduled hours. This course is not a substitute for the general education requirement in the area of natural sciences. The course is variable credits and can be repeated with different research projects up to a maximum of 6 credits.

CISO 3121 - Introduction to Social Sciences
Three credits. Three hours of lecture a week.
This course begins the study of the fundamental problems of contemporary society. It consists of readings, discussions, and conferences around three objectives: the analysis of the process of socialization or incorporation of the individual into his or her culture; the exploration of the historical and social background and the beginnings of modern Western culture, situating Puerto Rico within such a process of its development; definition of the main political, economic and cultural problems in the contemporary world. Face-to-face, hybrid and online course.

CISO 3122 - Introduction to Social Sciences

Three credits. Three hours of lecture a week.
This course begins the study of the fundamental problems of contemporary society. It consists of readings, discussions and lectures around three objectives: the analysis of the process of socialization or incorporation of the individual into his or her culture; the exploration of the historical and social background and the beginnings of modern Western culture, situating Puerto Rico within political, economic and cultural problems in the contemporary world. Face-to-face, hybrid and online course.

CISO 3125 - Interdisciplinary Perception of the Body as an Object of Study
Three credits. Three hours of seminar per week.
The body as an object of study will be the subject of conceptual reflection from the interdisciplinary perspective of biology, anthropology and history. We will study the expressive manifestations of the body (organic, gestural and artistic) through class discussion and experimentation. The body will be assumed as an object of study where aesthetic, gestural and corporal expression manifests importance for both knowledge and conceptualism. In addition to studying the scientific and philosophical character of the body, it is important to study its sensitive expression in a simultaneous and integrated way. Methodologically, we propose to change the dialogic element with practical experience as the characteristic objective of the course.
CISO 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 so far and culminating with research in which each student applies a theory to the analysis of a specific country.

CISO 5995 - Interdisciplinary Seminar on the Social Sciences
One to three credits. One to three hours of seminar per week.
The seminar opens a space for the presentation and discussion from an interdisciplinary approach of topics that are currently the object of research in the social sciences, that are part of contemporary debates and that are not the subject of analysis in other courses. In it, the academic community has the opportunity to participate in research on very specific topics that are being developed or have already been developed by professors (leading to the preparation of publications, conferences or doctoral theses). The seminar has a variable theme; Each semester the professor in charge of the seminar defines the topics and research to be addressed, as well as the methodology to be used. To adapt to the characteristics of each seminar, the duration of the seminar
y corresponding credits may also vary each semester.
ESGE 3005 - Introduction to Mathematical Reasoning
Three credits.
Introduction to some elements of set theory, to the development of number systems, and their relation to some of the problems in the foundations of mathematics. Different ways of looking at mathematics and its relationship with other disciplines of knowledge.

ESGE 3007 - Problems of Human Ecology
Three credits. Three hours of lecture a week. Prerequisite: CIBI 3001-3002 or equivalent.

An interdisciplinary analysis and study of interrelated factors that cause more serious ecological problems.

ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis
Three credits. Three hours of discussion a week.
General Education Course. Option to meet the requirement of the logical-mathematical reasoning and

quantitative analysis component. The course develops mathematical logical reasoning as well as quantitative analysis and its relationship to other disciplines through the discussion of application examples. It addresses aspects of the history and development of mathematics that characterize it as a formal science. It also includes elements of logic, set theory, number systems, consumption mathematics, probability, and data analysis. Face-to-face, hybrid and online course.

ESGE 3009 - Mathematics: Reasoning and Application
Three credits. Three hours of discussion a week.
Course designed as an option to meet the requirement of logical-mathematical thinking and quantitative analysis of the general education component. The importance of rational thinking, logic, and mathematics in everyday life is considered. It includes basic logic and math techniques, operations with numbers, and basic algebra concepts, statistics, and probability in widespread use in our society. It promotes an appreciation of the role that quantitative thinking plays in a comprehensive interdisciplinary education.

ESGE 3015 - Seminar: Perspectives on Biological Research y most recent medical
Two credits.
Presentation of some of the most recent and important biological and medical advances with a great impact on society and study of their implications. Among others, the following diseases of genetic origin, sex determination, transplants, pesticides and herbicides, cancer, mind control, etc., will be studied. For the presentation of each advance, people from the medical and scientific community who are involved in research in each area will be invited.

ESGE 3016 - Seminar: Power Generation and Environmental Issues
Three credits.
This seminar aims to put into perspective the relationship between the different forms of electricity generation and environmental quality. It will also discuss the effects on environmental quality of possible future methods of generating electricity, such as solar energy. Specific topics:
1) generation of electric power by burning oil and its effects on environmental quality; (2) nuclear power generation and its effects on environmental quality; 3) electric power generation using solar energy and its environmental effects; 4) Comparison of the different ways of generating energy and their environmental effects.

ESGE 3018 - Introduction to the Study of Personal and Family Law Three credits. Three hours of lecture a week. Prerequisite: third- and fourth-year undegraduate students.
The rights. Concept, classifications and sources of law. The value of jurisprudence. Summary and analysis of judicial decisions. The rights of the individual. The person. Birth, extinction and limitation of personality (capacity). The domicile. Study of family institutions: marriage, including both personal aspects and property regime, concubinage, divorce, paternity and filiation, parental authority, custody, maintenance between relatives, emancipation and guardianship.

ESGE 3019 - Interdisciplinary Seminar: Topics of Molecular Biology in Relation to Man, His Body, Social Behavior, Creativity
Two credits.
The seminar will consist of the discussion of a series of topics of contemporary interest and that are based on molecular biology. Some of the topics are: genetic manipulations, their scope, limitations, regulation and supervision; the molecular biology of depressive states, experimental aspects, their effect on the physical and mental state, and on the sociability and creativity of man; the molecular biology of cancer, its control, the effects of environmental factors; molecular biology and its use in the diagnosis of aberrations.

ESGE 3020 - Music and Technology in the Twentieth Century
Three credits. Three hours of lecture and discussion per week.
An introductory, interdisciplinary examination of the development of technology and its historical role in the creation of music over the past half-century. The course will explore the way in which technological

invention, emergence of electric instruments and equipment has impacted the constituent formal elements of music, particularly the harmonic and melodic aspects. It will study how technology has been a catalyst for the most innovative musical processes of our times, and how social, economic and political elements have influenced this creation. The course will focus on the study of four areas that have been most impacted by the development of technology; the electric guitar, the electric bass, keyboards and the recording studio.

ESGE 3021 - Great Works in Puerto Rican Culture
Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122 or HUMA 3101- 3102 or equivalent.
Interdisciplinary studies of great works of Puerto Rican culture through various works of sociology, history and literature.
ESGE 3022 - Great Works in Puerto Rican Culture
Three credits. Three hours of lecture a week. Prerequisite: CISO 3121-3122 or HUMA 3101- 3102 or equivalent.
Interdisciplinary studies of great works of Puerto Rican culture through various works of sociology, history and literature.
ESGE 3023 - Socio-salsa: Fundamentals of Urban Caribbean Musicology
Three credits. Three hours of lecture and discussion per week.
This introductory and interdisciplinary course studies the genre called salsa from an interdisciplinary lens with special emphasis on its protagonist entities that have shaped and still make up its own worker-musical staff. It integrates scientific social research, in the light of the basic principles of musicological research with a view to developing critical thinking in students in a transdisciplinary way. Stellar moments or fundamental milestones in the emergence of the so-called salsa that tend towards a content analysis of those songs of social struggle within this category or musical concept will be presented. Interactive experiences are carried out with the protagonists of the salsa environment, stimulating the creation of interdisciplinary socio-biographies of composers, arrangers,
instrument manufacturers, performers and broadcasters that, in a propaedeutic way, facilitate the preparation of a portfolio of socio-musical work.

ESGE 3025 - The Sense of the Human in Contemporary Thought
Three credits.
The course will revolve around the concept of the human body and some of the ways in which it is possible for us to conceive of it. The fiscalist theory will be analyzed, whose materialist interpretation understands the human being in terms of the reduction of mental functions to physiological ones.
The phenomenological approach to the theme of the body will also be seen in the works of Maurice Merleau Ponty and Gabriel Marcel. Finally, the evolutionary view of the body that stems from the paleontological studies of Pierre Teilhard de Chardin will be studied.
ESGE 3030 - Origin and development of sauce
Three credits. Three hours of lecture, discussion, workshop and research per week.
Introductory and interdisciplinary study of general education about the musical forms or manifestations that make up the category called salsa, based on the ethnomusicological approach. The repertoire and its broader relationship with culture and society are studied in order to better understand music as an activity of the human species through readings, discussions, audiovisual resources, research and workshops, among other didactic strategies. This will be achieved through the study of genres specific to the category, such as son, guaracha, danzón, chachachá and mambo. Face-to-face, hybrid and online course.

ESGE 3031 - Great Works on the Feminist Vision in the Puerto Rican Novel

Three credits. Three lecture hours per week Prerequisite: HUMA 3101-3102 or ESPA 3101- 3102 or equivalent.

Study of the position of women in the Puerto Rican novel.

ESGE 3032 - Great Works on the Feminist Vision in the Puerto Rican Novel

Three credits. Three lecture hours per week Prerequisite: HUMA 3101-3102 or ESPA 3101- 3102 or equivalent.
Study of the position of women in the Puerto Rican novel.

ESGE 3035 - Introduction to Health Sciences
Three credits. Three hours of lecture a week.
It provides the student with the opportunity to develop skills in the analysis, reflection, and interpretation of health problems in terms of the human being as a bio-psychosocial entity in interaction with his or her environment. Emphasis on examining health issues in Puerto Rico. The main method of discussion of original readings will be used, enriched by lectures, fieldwork, interviews and visits to institutions that intervene with health problems.
ESGE 3037 - Danzón: music and dance workshop
A credit. Two hours of lecture, rehearsals, performances and workshop per week. Prerequisites: the student must have an adequate command of vocal, instrumental or dance technique; audition in front of the teacher/director.
Workshop for musicians and dancers who are interested in being part of a project organized as an orchestra and dance corps specialized in danzón. The instrumental, vocal and dance aspects of this genre will be emphasized. Historical themes, anatomical aspects and acoustic qualities of the stages and instruments will be studied, which will be integrated into the rehearsals, illustrated lectures and concerts. Standard musical pieces will be performed and others that will be added to the repertoire as the sequence progresses. It can be repeated up to seven times.
ESGE 3038 - Writing in English: Reflection and Reasoning
Three credits. Three hours of discussion a week. Prerequisite: Basic English or equivalent.

Required course for the major component of the Bachelor's Degree in General Studies. Using the *Writing as a Process Approach (*WPA), this course takes a critical look at the dominant discourses, uses of language, and practices that enjoy ideological leadership and constitute powerful factors in the construction of reality, with the purpose of discovering the relationship between language, thought, and social practices. It is an interdisciplinary course that integrates literature, linguistics, cognitive sciences and other areas of knowledge to problematize discourse. The WPA leads students to reflect on how writing helps them refine their thoughts through the analysis of their written works.

ESGE 3041 - Introduction to Interdisciplinary Studies
Three credits. Three hours of lecture a week. Prerequisite: HUMA 3201-3202 or equivalent, or a major works course.
Study of great works of Western thought and how they affect and structure the artistic, scientific (natural) humanistic creation of modern man.
ESGE 3042 - Introduction to Interdisciplinary Studies Three credits. Three hours of lecture a week. Prerequisite: HUMA 3201-3202 or equivalent, or a major works course.
Study of great works of Western thought and how they affect and structure the artistic, scientific (natural) humanistic creation of modern man.
ESGE 3046 - Interdisciplinary course on the problems of man in the twentieth century. The Post-Technological Society
Three credits. Three hours of lecture a week.
The problems of twentieth-century man and his vision of the post-technological society of the near future will be studied. This topic of study will be viewed from the perspective of the different fields of the work of man in this century: the natural sciences, the social sciences, philosophy, ethics, art. The course is

developed in cycles, each one taught by a teacher who is an expert in the subject matter of that cycle. There will be a teacher in charge of coordination.
ESGE 3047 - Theories and Problems of the University in Today's World
Three credits.
This course is aimed at the study, analysis and comparison of the most important problems affecting the development of university education today in Europe, the United States, Latin America and Puerto Rico. It will cover the topic of the university's mission in a problematic way based on the reading and discussion of texts, essays, and articles that are key to the formulation of the topic.
ESGE 3055 - Municipal Planning in Puerto Rico
Three credits. Three hours of lecture a week.
Analyze planning as an instrument for the development of services offered by municipal governments.
ESGE 3061 - Major legal works
Three credits. Three hours of lecture a week. Prerequisite: a major works course or its equivalent.
Interdisciplinary study of major works in the field of law seen from philosophical, ethical, aesthetic and sociological perspectives.
ESGE 3062 - Major legal works
Three credits. Three hours of lecture a week. Prerequisite: a major works course or its equivalent.
Interdisciplinary study of major works in the field of law seen from philosophical, ethical, aesthetic and sociological perspectives.
ESGE 3082 - Great Works of Black People in Puerto Rican Literature
Three credits. Three hours of lecture a week. Prerequisite: ESPA 3101- 3102 or equivalent.

Study of the great works that represent the contribution of the Puerto Rican black (as object and as subject) to our literature.
ESGE 3101 - Great Works: The Myth of Don Juan
Three credits. Prerequisite: Two years of humanities is recommended.
Study of the development of myth in literature, music, and other areas of human endeavor through lectures, reports, and class analysis of the dramas of Tirso, Molière, and Zorrilla. **ESGE 3102 - Great Works: The Myth of Don Juan**
Three credits. Prerequisite: Two years of humanities is recommended.
Study of the development of myth in literature, music, and other areas of human endeavor through lectures, reports, and class analysis of the dramas of Tirso, Molière, and Zorrilla.
ESGE 3111 - English Drama Workshop
Three credits. Three to four hours of lab time a week. Prerequisite: ENGLISH 3101-3102 or 3221-3222 or equivalent.
Students act, direct, and produce one- or two-act scenes and comedies. The whole class, with the teacher, will give positive critique of the scenes when necessary.
ESGE 3112 - English Drama Workshop
Three credits. Three to four hours of lab time a week. Prerequisite: ENGLISH 3101-3102 or 3221- 3222 or equivalent.
Students act, direct, and produce one- or two-act scenes and comedies. The whole class, with the teacher, will give positive critique of the scenes when necessary.
ESGE 3121 - Major political and social planning works
Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.
It relates the student to the great works that deal with the origins, evolution and basic concepts of political science and its relationship with social planning.
ESGE 3122 - Major political and social planning works
Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.

It relates the student to the great works that deal with the origins, evolution and basic concepts of political science and its relationship with social planning.

ESGE 3130 - Writing as a Reasoning Process
Three credits. Prerequisite: ESPA 3001-3002.
Process of reasoning and linguistic construction in the production of academic and professional writings; principles of written communication theory; theory and practice of planning, limitation and development of guiding ideas; Coherent structuring and revision of expository writings. Face- to-face, hybrid and online course.
ESGE 3131 - Puerto Rican Culture and Folklore
Three credits. Three hours of lecture a week.
A panoramic historical-critical and analytical view of the cultural evolution and the folkloric phenomenon of Puerto Rico. Lectures, readings, excursions, field research and interviews with personalities of interest for these studies.
ESGE 3132 - Puerto Rican Culture and Folklore
Three credits. Three hours of lecture a week.
A panoramic historical-critical and analytical view of the cultural evolution and the folkloric phenomenon of Puerto Rico. Lectures, readings, excursions, field research and interviews with personalities of interest for these studies.
ESGE 3135 - Music, Culture and History of Africa
Three credits. Three hours of lecture, discussion, workshop and research.
Introductory and interdisciplinary study of African musical cultures in their particular social and historical contexts, based on the ethnomusicological approach. The topics to be studied will be based on data and concepts taken from sciences such as archaeology, mythology, linguistics, climatology, geography and musicology. The sound map of the continent will be analysed after identifying the different musical regions and their musical characteristics. Themes from traditional music such as atsíä, fontomfrom, and agahû, among others, and non-traditional musics such as high life, juju, and sukusu are examined.
ESGE 3136 - Caribbean Music Seminar: Music in Cuba
Three credits. Three hours of seminar per week.
Seminar with an interdisciplinary and introductory approach in which Cuban music is studied from the sixteenth century to the present. The main topics to be discussed are: sacred music, popular and concert music, music education, and the relationship of music with other disciplines. A more precise concept of the historical process of Cuban music and how it has influenced Caribbean culture will be worked on.
ESGE 3141 - Interdisciplinary Seminar: Women's Issues
Three credits. Three hours of lecture a week.
The status of women has been drastically affected because of changing historical circumstances, biological discoveries and concepts, transformations in social and economic institutions and cultural values. The course aims to analyze these changes in the condition of women, especially Puerto Rican women, to understand the circumstances that have produced them, to discover their immediate effects, and to try to develop projections about their long-term effects. The course will be developed through the study of original sources and through individual or group projects that are complemented by lectures on general topics.
ESGE 3142 - Interdisciplinary Seminar: Women's Issues
Three credits. Three hours of lecture a week.
The status of women has been drastically affected because of changing historical circumstances, biological discoveries and concepts, transformations in social and economic institutions and cultural values. The course aims to analyze these changes in the condition of women, especially Puerto Rican women, to understand the circumstances that have produced them, to discover their immediate effects, and to try to develop projections about their long-term effects. The course will be developed through the study of original sources and through individual or group projects that are complemented by lectures on general topics.

ESGE 3143 - Integration Seminar I
A credit. Three hours of seminar per week.

Analysis of topics related to BEG courses in an inter- and transdisciplinary manner. Students will plan one of the activities per semester.
ESGE 3144 - Integration Seminar II
A credit. Three hours of seminar per week. Prerequisite: ESGE 3143 and authorization from the seminar coordinator. General Education Courses of the BEG.
Analysis of topics related to BEG courses in an inter- and transdisciplinary manner. Students plan one of the activities per semester.
ESGE 3145 - Music, Culture & History of the Caribbean
Three credits. Three hours of lecture, discussion, workshop and research.
Introductory and interdisciplinary study of Caribbean musical cultures in their particular social and historical contexts, based on the ethnomusicological approach. It will study how and why music in the Caribbean has multiple manifestations influenced by European, African, Amerindian and Asian antecedents. A combined strategy of lectures, workshops and research on various topics of music in the Caribbean will be used. The topics of autochthonous ethnicities, miscegenation, transculturation and intra-Caribbean migrations, among others, and their links with the different musical repertoires to be studied, are addressed. These will be traditional oral music, commercial music, and academic or concert music.
ESGE 3146 - Music, Culture and History of Mexico
Three credits. Three hours of seminar per week.
This is an introductory and interdisciplinary course about the diverse traditions of Mexican music based on the ethnomusicological approach. The different repertoires will be described and analyzed with representative recordings of indigenous, mestizo, commercial and academic music. The convergences of music with other disciplines such as archaeology, linguistics, history and religion will be studied, without discarding such important topics as the technology of sound recordings and the music market.
ESGE 3151 - Women in the Social Process: Interdisciplinary Analysis
Three credits. Three hours of lecture and discussion per week.
Analysis of the historical-social processes that forge the social situation of women in contemporary society and the development of feminism as a social movement.
ESGE 3152 - Women in the Social Process: Interdisciplinary Analysis
Three credits. Three hours of lecture and discussion per week.
Analysis of the historical-social processes that forge the social situation of women in contemporary society and the development of feminism as a social movement.
ESGE 3161 - Problems in the construction of knowledge I
Three credits. Three hours of discussion a week.
Required course for the major component of the Bachelor of General Studies (PBEG) program. The course introduces students to the discussion of the fundamentals of scientific, social and humanistic thought, from a multi, inter and transdisciplinary logic. Through the reading and discussion of original works and interpretations, aspects of the history of knowledge and science are addressed, from its origins in Greek Civilization to the debates between Rationalism and
Empiricism. In addition, epistemological aspects of the disciplines are addressed, as a methodological guide for the construction of knowledge. Possibility of equivalence with ESGE 4011.

ESGE 3162 - Problems in the construction of knowledge II
Three credits. Three hours of discussion a week. Prerequisite: ESGE 3161.
Required course for the major component of the Bachelor's degree program in general studies. The course introduces students to the discussion of the fundamentals of scientific, social and humanistic thought, from a multi, inter and transdisciplinary logic. Through the reading and discussion of original works and interpretations, aspects of the history of knowledge and science are addressed, from the scientific revolution of the seventeenth century to the end of the nineteenth century, devoting special attention to the construction of the mechanistic paradigm, the theory of progress, evolutionary theory and the questioning of the modern representation of reality.
Epistemological aspects of the disciplines are addressed as a methodological guide for the construction of

knowledge.
ESGE 3163 - Problems in the Construction of Knowledge III *Three credits. Three hours of discussion a week. Prerequisite: ESGE 3162 or program director's authorization.* Required course for the major component of the Bachelor's degree program in general studies. The course introduces students to the discussion of the foundations of scientific thought and some of its social and humanistic implications, from a multi, inter and transdisciplinary perspective. Through the reading and discussion of original works and interpretations, aspects of the history of knowledge and science are addressed, focusing on the scientific revolution of the twentieth century and the beginning of the twenty-first century, with special attention to the physical sciences, biology and the epistemology of science. In addition, epistemological aspects of the disciplines are addressed, as a methodological guide for the construction of knowledge.
ESGE 3201 - Interdisciplinary Seminar: Socio-Humanistic Issues Relevant to Engineering I
Three credits. Three hours of seminar per week.
It is a seminar on variable topics aimed at first-year engineering students. It reflects and discusses in a critical and interdisciplinary way on socio-humanistic issues that have a direct impact on the engineering profession. Relevant historical periods of science and technology and their social, humanistic, and philosophical consequences are examined. Ethical reflections are included, presenting the student with situations that society is currently facing, due to the dizzying scientific and technological progress and the social challenges that this implies. The seminar incorporates a research component that allows for the rigorous study of aspects that generate concerns or concerns in students. Original writings and articles from refereed media are examined. Given the interdisciplinary nature of the seminar, it is offered by an interdisciplinary team in the shared teaching format.
ESGE 3202 - Interdisciplinary Seminar: Socio-Humanistic Issues Relevant to Engineering II.
Three credits. Three hours of seminar per week. Prerequisite: admission to the articulated engineering program of UPR-RP or authorization from the program coordinator.
It is a seminar of variable topics aimed at first-year engineering students, in which the following topics will be discussed: telecommunications, the social impact of scientific and technological development, controversies related to the field of genetic engineering, intellectual property and its protection, among others. All topics will be discussed, including ethical reflections on them and from an interdisciplinary perspective. A research component is incorporated, emphasizing the analysis of the characteristics of research designs, selection of designs according to the nature of the problem under study, methods of organization and data analysis, structuring of bibliographic records, as well as the presentation of research results. Original writings, including articles from peer-reviewed media, are also examined. Given the interdisciplinary nature of the seminar, it is offered by an interdisciplinary team in the shared teaching format.

ESGE 3305 - The Use of Technology in Research
Three credits. Three hours of discussion and two hours of lab time a week.
Required course for the major component of the Bachelor's degree program in general studies. Its purpose is to provide students with the tools and applications for searching and handling data, texts, and images. The student acquires experiences in the use of new technologies and the internet to carry out academic research. In addition, it will provide experiences to carry out research in the areas of humanities, social sciences and natural sciences using the current technological resources in these areas. To this end, the course will provide the epistemological foundations and practical laboratories to achieve literacy in the use of technology that can be used as a fundamental tool in their research work.

ESGE 3333– Introduction to Artifact Conservation
Three credits. Three hours of lecture a week.
Introductory and mandatory course for students aspiring to the Minor Major in Tangible Heritage Conservation. It begins with a historical overview of conservation and restoration, legal and ethical aspects, both local and international, and then addresses the agents of deterioration and how to control them. It studies what a conservation project is and how it is formed, from the registration of the piece and

its handling, to the techniques of analysis of the state of conservation and documentation. The intervention process is broken down considering practical aspects, materials and instruments, requirements of the owner of the device, the maintenance plan and the presentation of the piece. The contribution of the different areas of knowledge to the conservation of tangible heritage is considered. The dialogic method is favored through the study of real cases for the conservation of artistic works. It is offered in face-to-face or hybrid mode.

ESGE 3995 - Study Tour

One to six credits. Prerequisite: To have passed the first year of general education and in particular, the following courses: HUMA 3101-3102; ESPA 3101-3102; or its equivalent, INGL 3031-3032 or its equivalent, CISO 3121-3122.

Study of the history, development of nationality, culture, political and economic system, artistic and religious development of various countries in various parts of the world. It includes preparatory academic sessions for travel and visits to various countries.

ESGE 4001 - Great Philosophical Works

Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101-3102 or equivalent.

Analysis of representative works of Western philosophical thought and their development in modern thought.

ESGE 4002 - Great Philosophical Works

Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101-3102 or equivalent. Analysis of representative works of Western philosophical thought and their development in modern thought.

ESGE 4005 - Independent Study

Three to six credits per semester or lecture hours by agreement between the student and the professor. Prerequisite: Be at least a third-year student.

Independent study conducted under the supervision of a teacher specialized in the student's area of interest.

ESGE 4006 - Independent Study

Three to six hours per semester or lecture hours by agreement between the student and the professor. Prerequisite: Be at least a third-year student.

Independent study conducted under the supervision of a teacher specialized in the student's area of interest.

ESGE 4007 - Interdisciplinary Course in Linguistics

Three credits. Three hours of lecture a week. Prerequisite: Major Works Course.

Interdisciplinary approach and study of linguistics. Emphasis on the relationship with the new philosophy and the philosophy of science and with the socio-linguistic and psycholinguistic.

ESGE 4015 - Philosophical Experience and Religious Experience: Contrasts and Convergences

Three credits. Three hours of lecture a week.

Study of the essential characteristics of philosophical and religious experiences with emphasis on the various forms of relationship that have been elaborated between them.

ESGE 4021 - Great Works of Western Art

Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101- 3102.

Social History of Art; The study of the great works of Western art within their historical-social context and their philosophical and aesthetic premises.

ESGE 4022 - Great Works of Western Art

Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101- 3102.

Social History of Art; The study of the great works of Western art within their historical-social context and their philosophical and aesthetic premises.

ESGE 4031 - Great Literary and Philosophical Works Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101-3102 or 3201-3202 or equivalent.
Analysis of the existential, philosophical, psychological and sociological meaning of the literary work. An attempt is made to grasp its historical foundation and its transtemporal validity.
ESGE 4032 - Great Literary-Philosophical Works
Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101-3102 or 3201-3202 or equivalent.
Analysis of the existential, philosophical, psychological and sociological meaning of the literary work. An attempt is made to grasp its historical foundation and its transtemporal validity.
ESGE 4042 - Great Works of Religious Thought
Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101-3102 or equivalent.
Analysis of important aspects of religious thought through the discussion of some works of great interest in this area. Topics: 1) the phenomenon, 2) God, 3) the problem of evil.
ESGE 4045 - The Development of Critical Thinking Skills as a Goal of General Education
Three credits.
Study of theories and models of critical thinking. Theoretical study is combined with exercises for the development of critical thinking skills and attitudes.
ESGE 4052 - Literary Creation Workshop: Poetry
Three credits. Three hours of lecture a week. Prerequisite: Have passed a basic Spanish course. Original poems by the workshop participants will be evaluated in groups, under the direction of the teacher, so that both the individual and the group can discover, in the process, the key elements of a good poem.
ESGE 4061 - Great Poetic Works
Three credits. Three hours of lecture a week. Prerequisite: ESPA 3101- 3102.
Poetry as a way of knowledge from its scientific, sociological and psychic perspectives. **ESGE 4062 - Great Works of Poetry**
Three credits. Three hours of lecture a week. Prerequisite: ESPA 3101- 3102.
Poetry as a way of knowledge from its scientific, sociological and psychic perspectives. **ESGE 4071 - Great Works of Ethics and Law**
Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.
Analysis of the major controversies between ethics and law through historical facts.

ESGE 4072 - Great Works of Ethics and Law
Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122.
Analysis of the major controversies between ethics and law through historical facts.

ESGE 4075 - Ethical and Humanistic Aspects of the Medical Sciences and Professions
Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101-3102; CISO 3021- 3022.
Study of the ethical and humanistic aspects related to the medical and biomedical sciences and professions. Disease and health will be examined from a humanistic perspective and in its social dimension to establish the ethical bases that should guide the conduct of medical professionals, biomedical researchers and institutions that provide health services. Representative works from medical and philosophical literature will be analyzed, films and documentaries that illustrate the problems will be discussed, and real cases will be discussed.
ESGE 4077 - Human Rights in the Contemporary World
Three credits. Three hours of lecture, discussion and debates per week.
Study of the historical origin of human rights, their development and the validity and importance they acquire in the contemporary world, especially in the great debates of our time. Face-to-face, hybrid and online course.
ESGE 4091 - Great Works of Depth Psychology
Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122 and PSIC 3005. Analysis of representative works of depth psychology, relating them, among other things, to the cultural environment.
ESGE 4092 - Great Works of Depth Psychology

Three credits. Three hours of lecture a week. Prerequisite: CISO 3121- 3122 and PSIC 3005. Analysis of representative works of depth psychology, relating them, among other things, to the cultural environment.
ESGE 4101 - Research Methods and Techniques
Three credits.
Course requirement for the major component of the Bachelor of General Studies (PBEG) program. The course addresses aspects of the methods and techniques used in qualitative and quantitative research and the paradigms that underpin them. Situations or problems that allow the application and integration of the knowledge acquired in other courses of the PBEG major are analyzed and the fundamentals of the research process are discussed. Participants will develop competencies that allow them to get involved in research processes, in the context of the preparation of dissertations, theses or other similar experiences.

ESGE 4102 - Essay
Three credits. Prerequisite: ESGE 4101 or 4111.
Research will be carried out in a particular field of human endeavor under the supervision of a counselor. The dissertation will be written in Spanish unless the dissertation committee allows the use of another language.
ESGE 4105 - The Use of Legislative and Legal Sources in Research
Three credits. Two hours of lecture and one hour of laboratory time per week.
Knowledge of the sources needed to conduct legal research and their importance. The content of the course will emphasize the research method and the skills that the researcher must possess.
ESGE 4112 - Interdisciplinary Research Course
Three credits. Prerequisite: A math course or permission from the director.
Introduction to the general aspects of research from an interdisciplinary perspective. This course will synthesize and integrate various aspects of the disciplines that have to do with research, problem formulation and documentation.
ESGE 4121 - Epistemological Foundations of the Humanities I
Three credits. Three hours of discussion a week.
Required course for students in the third or fourth year of the baccalaureate in general studies. The course will provoke discussion and reflection on epistemological problems in the field of humanities, which have maintained their validity throughout the history of the disciplines: perception, memory, a priori knowledge and testimony. Notions such as: knowledge, belief, justification, truth, ways of knowing, evidence, reality, representation, rigor and skepticism will be examined.
ESGE 4122 - Epistemological Foundations of the Humanities II
Three credits. Three hours of discussion a week. Prerequisite: ESGE 4121.
Required course for students in the third or fourth year of the baccalaureate in general studies. The course will provoke discussion and reflection on epistemological problems in the field of humanities that have remained valid throughout the history of the disciplines: nature and scope of knowledge, skepticism, inference, and induction. Notions such as: types of knowledge, belief, justification, truth, certainty, doubt, chance, intuition, mimesis, method, probability, revision and fallibility will be examined.
ESGE 4125 - Great Works of Economic Thought
Three credits. Prerequisite: CISO 3121-3122.
This course will study the great works of economic thought in the 19th and 20th centuries.

ESGE 4141 - Puerto Rican Thought and National Reality I
Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

An examination of how Puerto Rican writers of different generations have approached and interpreted the stages of Puerto Rican national development, and particularly the main features of the country. Face-to-face, hybrid and online course.
ESGE 4142 - Puerto Rican Thought and National Reality II
Three credits. An hour and a half of lecture and an hour and a half of discussion per week.

An examination of how historians, writers, and visual artists of different generations have approached and interpreted the stages of Puerto Rican national development, especially during the 20th and 21st centuries. They comprise a rich European, African and American heritage that, in turn, has managed to create a culture of its own, which identifies Puerto Ricans. This course will be offered face-to-face, hybrid, and online.

ESGE 4152 - Women's Writing in Puerto Rican and Universal Literature

Three credits. One hour of lecture, one hour of discussion, and one hour of independent study per week. Literary texts of various genres and periods produced by women will be studied. Special focus will be placed on Puerto Rican literature, but pertinent texts from other nationalities will also be studied. These texts of women's writing will be approached from the various perspectives offered by literary criticism.

ESGE 4161 - Epistemological Foundations of the Social Sciences I

Three credits. Three hours of discussion a week.

Required course for third- or fourth-year students of the Baccalaureate of General Studies (PBEG) program. The course discusses the epistemological foundations of social scientific thought, from a multi, inter and transdisciplinary logic. Through the reading and discussion of original works and subsequent interpretations, important aspects of the theory of knowledge in the social sciences are addressed, focusing on its modern development from the end of the nineteenth century and during the first half of the twentieth century.

ESGE 4162 - Epistemological Foundations of the Social Sciences II

Three credits. Three hours of discussion a week. Prerequisites: ESGE 4161.

Required course for third- or fourth-year students of the Bachelor of General Studies (PBEG) program. The course discusses the foundations of social scientific thought and its interaction with other epistemological proposals, from a multi, inter and transdisciplinary logic. Through the reading and discussion of the original works and subsequent interpretations, important aspects in the foundation and theory of knowledge in the social sciences are addressed, focusing on their contemporary development during the second half of the twentieth century and the beginning of the twenty-first century. Face-to-face, hybrid and online course.

ESGE 4185 - Epistemological Foundations of the Biological Sciences

Three credits. Three hours of discussion a week.

Required course for third- or fourth-year students of the Bachelor of General Studies (PBEG) program. The course discusses the foundations and historical evolution of biological thought and its relationship to other disciplines. Through the discussion of the main currents of biological thought, the Cartesian proximal mechanistic view and the Darwinian historical view, the course allows us to identify the singularity of biology and characterize the ontological, epistemological and methodological response that this discipline proposes for the explanation of biological phenomena. Face-to-face, hybrid and online course.

ESGE 4186 - Epistemological Foundations of the Physical Sciences

Three credits. Three hours of discussion a week.

Discussion of ontological, methodological and epistemological aspects of knowledge of the physical sciences, focusing on the second half of the nineteenth century and the first half of the twentieth century. Through problem solving and the use of different didactic resources, students will learn about and apply fundamental epistemological concepts and develop university-level critical analysis, creation, research and dissemination skills. The course stimulates group learning. This course is required for students in their third year or older in the Bachelor of Arts program in general studies.

Students from other programs may enroll.

ESGE 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.

ESGE 4444 - Final Project in Conservation

1 to 4 credits. Prerequisite: ESGE 3333

Interdisciplinary course, which can be taken on more than one occasion, up to a maximum of 4 credits, depending on the complexity of the project, and is taken once per level of progress (possible levels 1 to 4). It is required for students in the Minor Major in Cultural Heritage Conservation. The student is guided in the definition and execution of their conservation project, which includes the practice of intervention in the object and culminates with the written report of the intervention in an artistic or archaeological piece of cultural interest. The student is offered some possibilities of where to go to carry out the intervention work, under the guidance of a curator. The choice of the topic, type of object to be dealt with and the curator-tutor will be the student's, once they receive recommendations from the professor or the academic advisor of the Minor Major in Conservation of Cultural Heritage. It is offered in face-to-face or hybrid mode.

ESGE 4995 - Interdisciplinary Seminar

One to three credits. One to three hours of lecture per week. Prerequisite: Principal's permission.

Flexible interdisciplinary seminar in which both the content and the number of credits will vary depending on the topic covered by the visiting professor and the time available to cover it.

ESGE 5995 - Interdisciplinary Seminar: Comparative and Emerging Issues

One to six credits. One to six hours of seminar per week. Prerequisites: authorization from the director of the Bachelor's Program in Management Studies, after evaluation of the student's academic record. Graduate students will need permission from their program director if the course is considered an elective for their degree.

This seminar analyzes those topics that emerge as significant spaces for debate and knowledge production, or that, even if they pre-exist, are particularly relevant at the present time and that also have a considerable impact on the contemporary world. Emphasis will be placed on topics that involve interdisciplinarity, the study of frontier issues and problems between the major areas of knowledge, as well as the use of comparative analysis methodologies. During the development of the seminar, all participants, students and facilitators, must make presentations based on studies and research on the previously agreed topics, the participants will contribute to identify and develop relevant topics and methodologies that could be the basis for the implementation of lines of action that tend to enrich teaching and research.

ESPA 3003 - Fundamentals of Language and Discourse

Three credits. Three hours of lecture and three hours of workshop per week.

The theoretical and practical study of vernacular language is essential for the integral development of knowledge. Built in the context of a general education program, it serves three purposes: the specificity of the discipline; an interdisciplinary projection and a cognitive experience. During the first semester, emphasis is placed on language as an object of study. The study of various linguistic levels (phonological, morphosyntactic and lexical-semantic), within the framework of Hispanic language and culture, makes students aware of the need to rethink their discourse from the formal register of language. The semester closes with a sample of essay texts that encourage reflection and serve as a stimulus to produce oral and written discourses that will confront them with their own linguistic process. This is the first-year Spanish course, with workshop, for students who obtain 504 or less in CB and can be offered in person, hybrid and distance learning.

ESPA 3004 - Fundamentals of Language and Discourse

Three credits. Three hours of lecture and three hours of workshop per week. Prerequisite: ESPA 3003.

The theoretical and practical study of vernacular language is essential for the integral development of knowledge. Built in the context of a general education program, it serves three purposes: the specificity of the discipline and cognitive experience. This semester focuses on language as a knowledge-building subject. The study of various discourses (narrative, descriptive, expository and argumentative) is done through the reading and analysis of literary and non-literary texts, such as film, photographic, plastic

texts, the texts are in Spanish and preferably contemporary. They are studied as types of discourses without assigning a normative function to gender. This is the first-year Spanish course, with workshop, for students who obtain 504 or less in the College Board. This course is offered in person, hybrid and online.

ESPA 3017 - Black Women in Puerto Rican Literature
Three credits. Three hours of discussion a week.
This course is an option to fulfill the literature requirement of the general education component. Literary texts, fundamental in Puerto Rican cultural discourse, that address the theme of black women are analyzed. It also examines the representation of black and mulatto women in canonical and non-canonical texts. It reflects on the role that black women have played in Puerto Rican literature from a gender, race, and class perspective. A multi- and interdisciplinary approach is favored in the analysis of prose and poetry texts from a sociological and historical approach.
ESPA 3018 - War in Literature
Three credits. Three hours of discussion a week.
This course is an option to fulfill the literature requirement of the general education component, in which the subject of war is addressed from a contemporary and interdisciplinary literary perspective. Although some classic texts on certain armed conflicts (the Peloponnesian War) are analyzed, it concentrates on contemporary texts that point to new approaches to the relationship between the most important military conflicts of the twentieth century and their representation in literature. In addition, photographic/pictorial texts that have accompanied the imaginary of these conflicts and which are alluded to in many of the literary texts are analyzed. Finally, issues related to the politics of bodies during armed conflicts and their representation in literature (torture, rape, execution and abduction) are discussed.
ESPA 3019 - Puerto Rican Literature and Cultural Nationalism
Three credits. Three hours of discussion a week.
This course is an option for the general education component literature requirement. The course explores how the discourse and imaginary of Puerto Rican cultural nationalism was constructed since the 1950s, a time of creation and development of key institutions and founding discourses of the commonwealth. The emphasis of the study is the didactic literature that was given in the project that premiered the cultural policy of the Muñocista state, the division of education of the community (1949), and the literary production of the generation of the fifties. The course examines a diverse corpus including; examples of the division's cultural production (film, photography, and posters): as
well as contemporary perspectives, which help to understand the complexity of the strategies and devices of cultural nationalism to its repercussions in today's Puerto Rico.

ESPA 3035 - Literature and the City: San Juan and New York
Three credits. Three hours of lecture a week.
This course is an option to fulfill the literature requirement of the general education component. It is divided into two major units: "the modern city: San Juan, Puerto Rico" and "the multicultural city: New York". These are preceded by a theoretical unit in which cities in general are reflected on from an interdisciplinary perspective: socio-anthropological, historical and literary. Approaches from literary criticism and cultural studies are used to examine the relationship between literature and the city, using mainly works from Latin American and Puerto Rican literatures of the second half of the twentieth century. In each of these units, topics and authors will be studied that take into account both the theoretical and practical aspects. Each unit of the course includes an extracurricular activity that contributes to the student's overall experience in the city.
ESPA 3036 - Fiction and History: Twentieth Century Spanish-American Novel
Three credits. Three hours of discussion a week.
This course is an option to fulfill the literature requirement of the general education component. The course focuses on the study— applied to Hispanic American narrative— of contemporary literary and historiographical theory and criticism, to examine the relationship between history and literature. The ambiguous relationship between history and fiction and, consequently, between literary narrative and

historiography or historical narrative, is one of the axes of reflection of the course, approached from the field of literature. Its structure corresponds to the units that examine the "genre of the historical novel", "history" and the rapprochement between "narrative and historiography".

ESPA 3037 - The Spanish Civil War in Literature
Three credits. Three hours of discussion a week.
This course is an alternative to fulfill the literature requirement of the general education component. A repertoire of literary texts inspired by the Spanish Civil War is studied, which includes various genres (short story, poetry, novel, theater, chronicle, essay) and a wide variety of narrators (intellectuals, poets, artists, politicians, soldiers) with the purpose of exploring the complexity of the historical event and its consequences both on the national and international scenes. Literary representations of the Civil War in texts written by Spaniards, North and South Americans and other Europeans will be addressed. On the other hand, the texts will be analysed from an interdisciplinary perspective, in relation to other artistic expressions such as cinema, photography, posters, painting and documentaries.
ESPA 3101 - Basic Spanish I
Three credits. Three hours of lecture a week.
Designed for students who, through the results of their entrance exam, demonstrate that they possess considerable limitations in the mastery of the vernacular. In addition to reading and analyzing the content of literary texts, the course includes fundamental material for the development of language skills through practical exercises. (c) Face-to-face, hybrid and online course.
ESPA 3102 - Basic Spanish II
Three credits. Three hours of lecture a week. Prerequisite: ESPA 3101.
Designed for students who, through the results of their entrance exam, demonstrate that they possess considerable limitations in the mastery of the vernacular. In addition to reading and analyzing the content of literary texts, the course includes fundamental material for the development of language skills through practical exercises. (c) Face-to-face, hybrid and online course.

ESPA 3111 - Spanish Honors Course
Three credits. Three hours of lecture a week.
It is offered to students who have demonstrated superior preparation in the literary linguistic aspect. It follows the same lines as the basic course, but in a deeper and more intense way. The student will have an adequate handle on research techniques and the writing of essays.
ESPA 3112 - Spanish Honors Course
Three credits. Three hours of lecture a week.
It is offered to students who have demonstrated superior preparation in the literary linguistic aspect. It follows the same lines as the basic course, but in a deep and intense way. The student will have an adequate handle on research techniques and the writing of essays.
ESPA 3136 - Literature and Religion: The Religious Myth
Three credits. Three hours of discussion a week.
This course is an option to fulfill the literature requirement of the general education component. The study of literature is approached from an interdisciplinary approach (religion, literature and society). It exposes forms and themes of religion in literary writing, as well as attending to the literalness of sacred writing. Cesar Vallejo, José Martí, Pablo Neruda, Miguel de Unamuno, Marcio Veloz Maggiolo, Juan Bosch, José Saramago, Octavio Paz, Abelardo Díaz Alfaro, Gabriel García Márquez, (among others) will be addressed from the religious myth, as well as the demystification through the literariness of sacred writing in stories from the Koran, the Bible, and the Tanakh. The analysis of the works will be based on various literary theories that argue about the correspondence between literary writing and the religious-theological notion (Octavio Paz, Marshall Berman, Stephane Lupasco).
ESPA 3217 - Dominican Literature: Imaginaries about the Immigrant
Three credits. Three hours of discussion a week.
This course is an option for the literature requirement of the general education component. The course

studies how the imaginary of the Dominican immigrant is constructed in the literature of the Dominican Republic of the twentieth century, the beginning of the twenty-first, and its diaspora. At the same time, it examines the theoretical literature around the construction of the collective imaginary and how this construct formulates, fixes beliefs and "myths", relating or confronting them with that migrant.
The course also explores some representations of these imaginaries in journalistic and cinematographic texts. The extraliterary, historical and cultural resources that construct and support the imaginary of the subjects in the texts are analyzed. It includes the study of other emerging imaginaries of resistance/rapprochement. The approach is interdisciplinary: it addresses the literary, linguistic, sociological, political and cultural aspects.
ESPA 3225– The Representation of Drugs in the Literature
Three credits. Three hours of lecture a week.
Study of the way in which addiction and drugs have been represented in a diverse sample of mostly Hispanic American literary texts: poetry, essays, short stories, short stories and novels. The study is framed in an interdisciplinary reflection that intersects literary considerations in terms of their relationship with other discourses such as sociological, filmic and philosophical. This course is an alternative to fulfill the literature requirement of the general education component.
ESPA 3306 - Literature and the City: "Genres", "Cultures" and "Spaces"
Three credits. Three hours of lecture a week.
This course is an option to fulfill the literature requirement of the general education component. It is divided into three units in which the themes of "genders", "cultures", and "spaces" that have characterized the city since the second half of the twentieth century are examined. Approaches from literary criticism and cultural studies are used to examine the relationship between literature and the city, using mainly works from Latin American and Puerto Rican literatures of the second half of the twentieth century. Each unit of the course includes an extracurricular activity that contributes to the student's holistic experience in the city.
ESPA 3380 - Literature and Writing from the Margins
Three credits. Three hours of lecture a week. Prerequisites: any of the first-year Spanish levels (6crds): ESPA3003-3004, ESPA 3101-3102, ESPA 3111-3112, or certification exam no. 88, year 2003-2004.
This course is an option to fulfill the general education literature requirement. It deals with the reading of literary and non-literary texts since the twentieth century, leading to the written production of students, from their experiences and circumstances. Reading will serve as a guide from reading comprehension to the development of personal writing. Based on the paradigm of intersectionality, readings with thematic axes that shape the human being and society will provoke a creative response to the voice of otherness and personal experiences with diversity and questions to canonical discourses. Reading and writing are conceptualized as processes of self-knowledge and self-regulation in which the sociocultural environment converges with one's own experiences, as proposed by the Student's Personal Narrative (SPN). It can be offered in face-to-face, hybrid or distance learning.
ESPA 3511 - Contemporary Puerto Rican Cultural Debates Three credits. Three hours of lecture a week. Prerequisites: It is required to have passed 6 credits in any of the first-year levels of Spanish: ESPA 3003-3004, ESPA 3101-3102 and ESPA 3111-3112.
This course is an option to fulfill the general education literature component requirement. This course addresses the contemporary debates of Puerto Rican culture from the late nineties to the present, both in our archipelago and in the diaspora, from theoretical-critical perspectives of cultural studies and feminisms (decolonial, intersectional and transfeminism). The study of the cultural field of the late 20th and early 21st centuries represent a rupture in the discussions about Puerto Ricans because established notions about national knowledge and imaginaries (language and identity, Hispanism, the magisterial voice of the intellectual, in short, keys to cultural nationalism) were
questioned. The course works on the framework of institutional, intellectual, artistic and popular discourses around these canonical constructions of Puerto Ricanism from the critical and profound debates of that time (postmodernity, neonationalism, diaspora, feminism, gender, globalization

(transnational/trans-Caribbean), race, inequality, criticism of independence and nationalism, multiplicity of identities, hybridity, paternalism) to the new approaches and more productive proposals (intersectional perspectives, queerness, motherhood and masculinities, disaster capitalism, and climate change, for example). Face-to-face course.

ESPA 3513 - Puerto Rican Literature and Diverse Cultural Expressions in the United States
Three credits. Two hours of lecture and one hour of discussion per week. Prerequisites: Pass any of the first-year levels of Spanish. ESPA
3003-3004, ESPA 3101-3102, ESPA 3111-3112.
This course is an option to fulfill the general education literature component requirement. The course will discuss, from an inter/transdisciplinary perspective, a sample of the Puerto Rican literary corpus produced in New York at two moments: the early twentieth century and the decades of the '60s and '70s. In addition, it will examine the most recent literary productions and various cultural manifestations in that city and beyond. It begins with a historical background that contextualizes Puerto Rican migration to the United States since the early twentieth century to examine the relationship between migration and national discourse. Then, it considers the periodization of Puerto Rican literature in the United States and discusses foundational texts from the early twentieth century, the Nuyorican Aesthetics, and a sample-link to later cultural expressions. In the final section, various cultural manifestations produced from the '80s to the present day are discussed. This face-to- face course satisfies the literature requirement of the general education component.
ESPA 3535 - Literary Debates: Seminar on Variable Topics Three credits. Three hours of lecture a week. Prerequisites: Have passed the first year of Spanish (6 credits) ESPA 3003-3004,
ESPA 3101 and 3102
and ESPA 3111 and 3112.
This seminar constitutes a space for the presentation and discussion of topics that are currently the object of research in the study of literature, an interdisciplinary approach. It offers the opportunity to share research that the academic community is developing or has developed for the preparation of publications, conferences or doctoral theses. All courses prepared for this seminar will qualify for the literature component of the baccalaureate. Face-to-face course.
ESSI 3001 - Spanish Language as a Second Language: Conversational I
Two credits. Two hours of discussion a week. Prerequisites: Placement test.
Course designed for participants of INIM programs with little or no knowledge of the Spanish language. It complements the regular core courses. It focuses on the development of speaking and listening comprehension, with emphasis on the use of common idiomatic phrases, vocabulary acquisition, and pronunciation.
ESSI 3002 - Spanish Language as a Second Language: Conversational II
Two credits. Two hours of discussion a week. Prerequisites: ESSI 3001 or placement test.

Course designed for participants of INIM programs with basic knowledge of the Spanish language. It complements the regular intermediate courses. It focuses on the expansion of speaking and listening skills, with emphasis on the use of idiomatic phrases, the acquisition of more specialized vocabulary, and fluency in speaking.
ESSI 3121 - Spanish Language as a Second Language: Basic Level I
Three credits. Three hours of discussion a week. Prerequisites: Placement test.

Intensive course designed for participants of INIM programs who are native speakers of other languages and who have little or no knowledge of the Spanish language. This course is framed within Puerto Rican society and culture and focuses on the spoken and written use of Spanish in everyday situations.
ESSI 3122 - Spanish as a Second Language: Basic Level II Three credits. Three hours of discussion a week. Prerequisites: ESSI 3121 or proof of location.

Second part of the basic level. Intensive course designed for participants of INIM programs who are native speakers of other languages and have little knowledge of the Spanish language. This course is framed within Puerto Rican society and culture and focuses on the development of the ability to communicate, with greater emphasis on listening and reading comprehension of simple texts.
ESSI 3123 - Spanish language as a second language: intermediate level I
Three credits. Three hours of discussion a week. Prerequisites: ESSI 3122 or placement test.

Intensive course designed for participants of INIM programs who are native speakers of other languages and who have a basic level of knowledge of the Spanish language. This course is framed in Puerto Rican society and culture and focuses on the expansion of oral and written expression skills, as well as listening comprehension and reading of texts on different current topics.
ESSI 3124 - Spanish Language as a Second Language: Intermediate Level II
Three credits. Three hours of discussion a week. Prerequisites: ESSI 3123 or placement test.

Second part of the intermediate level. Intensive course designed for participants of INIM programs who are native speakers of other languages and who have an
intermediate-basic level of knowledge of the Spanish language. This course is framed in Puerto Rican society and culture and focuses on the most complex written and oral expression and reading comprehension of texts of various genres.
ESSI 3125 - Spanish Language as a Second Language: Advanced Level
Three credits. Three hours of discussion a week. Prerequisites: ESSI 3124 or placement test.

Intensive course designed for participants of INIM programs who are native speakers of other languages and who have an intermediate level of knowledge of the Spanish language. This course is framed within Puerto Rican society and culture and focuses on written and oral expression for academic purposes, as well as text comprehension and analysis.
ESSI 4005 - Spanish Language as a Second Language: Editorial Team
Three credits. Three hours of discussion a week. Prerequisites: ESSI 3124 or placement test.

Course designed for participants of INIM programs who are native speakers of other languages and who have an intermediate-advanced level of knowledge of the Spanish language. It focuses on the development of composition skills for social, personal, and academic purposes. It is based on the reading of model texts and the study of morphosyntactic elements and particularities of Spanish grammar of greater complexity.
HUMA 3013 - Looking at the West: From Greece to Byzantium
Three credits. Three hours of lecture and discussion per week.
This course is an option to fulfill the humanities requirement of the general education component. It proposes to approach Western culture from an epistemological, chronological, multi- and interdisciplinary perspective and is organized by thematic threads. It begins in Athens with the speech of Socrates, stops in Republican Rome and culminates with St. Augustine and Byzantine Art, history, literature, philosophy, plastic arts, architecture, music, law, politics, economics and religion, are studied seeking to generate an integrating vision. It promotes the development of linguistic skills, research, critical analysis and ethical and aesthetic sensitivity. They are analyzed through problematic approaches, texts, works of art and architecture, stage pieces and films, among others.
Face-to-face, hybrid, distance learning and online course.
HUMA 3014 - Looking at the West: From the Middle Ages to Globalization
Three credits. Three hours of lecture and discussion per week.
This course is an option to fulfill the humanities requirement of the general education component. It proposes a critical approach to various manifestations of Western culture from a chronological, epistemological, multi- and interdisciplinary perspective. It is organized by thematic threads, from the medieval theocentric period through Renaissance humanism, the scientific revolution, the industrial revolution, delving into the worldview of the contemporary era. History, literature, philosophy, visual arts,

architecture, music, law, politics, economics, cinema, thought and religious struggles are examined from an epistemological and integrative perspective of knowledge; promoting the development of linguistic, thinking, communication and research skills, and the development of ethical and aesthetic sensitivity. Face-to-face, hybrid, distance learning and online course.

HUMA 3017 - How to Look at Images and Other Artifacts

Three credits. Three hours of discussion a week.

Course designed as an option to fulfill the arts requirement of the general education component of the high school of the Rio Piedras campus. It approaches the arts from an interdisciplinary perspective to explore the meaning and functioning of images and artifacts, through the detailed examination of their material features. The premise is that this examination will open the door for the object to guide us to the critical, theoretical, and historical questions pertinent to its explanation. The observation process, together with the reading of theoretical and literary texts, will be the space for reflection and analysis of the course. In this framework, students will also be encouraged to examine their own thinking and learning processes. Face-to-face, hybrid, distance learning and online course. **HUMA 3018 - Classical Mythology in Art**

Three credits. Three hours of discussion a week.

The course is designed as an option to fulfill the arts requirement of the general education component. It approaches the arts from an interdisciplinary perspective with the purpose of exploring the nature and history of Greco-Roman mythology. This history has been perpetuated through the centuries, in the work of the great artists and thinkers of the West and testifies in myth to the presence of universal truths about human life and reality. Reference is made to the descriptions of myths in order to relate them to artistic representations expressed through painting, sculpture, architecture, cinematography, among others. Face-to-face, hybrid, distance learning and online course.

HUMA 3025 - Art in museums and other spaces

Three credits. Three hours of discussion a week.

The course is designed as an option to fulfill the arts requirement of the general education component. Examine the fascinating world of museums, public or private, and the nature of their collections. From a multi- and interdisciplinary perspective, it discovers its importance for research, the enjoyment of aesthetics, its didactic function, and its multiple expressions: artistic, historical, religious, political, scientific, and technological, among others. It studies the origins and evolution of the institutions that have guarded the artistic, cultural, bibliographic and documentary assets of humanity over the centuries: museums, galleries, archives, film libraries, libraries and other repositories. Explore the various spaces in which heritage assets are preserved, from the Paleolithic to their most recent exhibitions in cyberspace. Face-to-face, hybrid, distance learning and online course.

HUMA 3033 - Issues and Problems of Western Culture I

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

Interdisciplinary course designed as an option to complete the humanities requirement of the general education component. It examines Western culture through a selection of themes and issues. The West is presented as a process of signification of the cultural imaginary as opposed to the non-Western. The analysis is based on discussions, readings and research of four concepts: the West, memory, progress and expansionism. Face-to-face, hybrid, distance learning and online course.

HUMA 3034 - Issues and Problems of Western Culture II

Three credits. Three hours of lecture and discussion per week. Prerequisites: HUMA 3101 or HUMA 3113 and HUMA 3033.

Interdisciplinary course designed as an option to complete the humanities part second requirement of the general education component. It examines Western culture through a selection of themes and issues. The West is presented as a process of signification of the cultural imaginary as opposed to the non-Western. The analysis is based on discussions, readings and research of four concepts: governments and forms of governance, globalization and globalizations, judgments and prejudices, and alienation, living and dying in the West. Face-to-face, hybrid, distance learning and online course.

HUMA 3041 - Western Music and Culture: From the Greek to the Baroque World

Three credits. Three hours of discussion a week.

The course is an option to fulfill the arts requirement of the general education component. It introduces the musical phenomenon into the history of Western culture, from its Greek origins to the Baroque. Through a comparative, multi- and interdisciplinary approach, the course offers the opportunity to master, in a perceptual, conceptual and creative way, the internal relationship that unites the musical arts to the cognitive, historical, social and intercultural process up to the 1750s. Course to be presented face-to-face, hybrid, distance and online.

HUMA 3042 - Western Music and Culture: From Classicism to the Present

Three credits. Three hours of discussion a week.

The course is an option to fulfill the arts requirement of the general education component. They introduce the musical phenomenon into the history of Western culture, from musical classicism to the present day. Through a comparative, multi- and interdisciplinary approach, the course offers the opportunity to master, in a perceptual, conceptual and creative way, the internal relationship that unites the musical arts to the cognitive, historical, social and intercultural process. Face-to-face, hybrid, distance learning and online course.

HUMA 3101 - Introduction to Western Culture I

Three credits. Three hours of lecture a week.

Critical reflection on the most important fundamental aspects of Western culture from the perspective of the various humanistic disciplines such as art, history, literature, philosophy and religious ideas, through the analysis of the most significant original works and texts, with particular emphasis on ancient Greece and its relationship with the present time. Face-to-face, hybrid, distance learning and online course.

HUMA 3102 - Introduction to Western Culture II

Three credits. Three hours of lecture a week.

Critical reflection on the most important fundamental aspects of Western culture from the perspective of the various humanistic disciplines such as art, history, literature, philosophy and religious ideas through the analysis of the most significant original works and texts with particular emphasis on ancient Rome, the origins of Christianity and the passage from the Hellenistic period to the Middle Ages and their relationship with the present era. Face-to-face, hybrid, distance learning and online course.

HUMA 3106 - Christianity and the Ancient World

Three credits. Three hours of discussion a week.

This course is an option to fulfill the humanities requirement of the general education component of the Rio Piedras campus. The course explores the history of Christianity in relation to two cultural matrices: the Hebrew background and the Greco-Roman background. It therefore focuses on the relationship between the dominant cultures of antiquity and the subjugated cultures, emphasizing the popular classes and their moral and spiritual needs. Examine the literature, art, and archaeological remains of Christianity and its surroundings. This intensive, interdisciplinary course allows us to examine a wide range of cultural expressions, such as education, law, philosophy, history, government policy, religion, the history of family life, and others. It covers the core concepts of the humanities curriculum and spans from c. 200 BC to the early Middle Ages. Face-to-face, hybrid, distance learning and online course.

HUMA 3113 - Discourses and Representations of the City I: Antiquity

Three credits. Three hours of discussion a week.

Interdisciplinary course designed as an option to complete the humanities requirement of the general education component. The city of antiquity is studied through readings, audiovisual resources, discussions, fieldwork and research exercises, among other teaching strategies. The city will be examined from different disciplines or discourses from its origins in Egypt, Mesopotamia and the Indus basin, through the pre-Columbian cities of America, to the Greek polis. Face-to-face, hybrid, distance learning and online course.

HUMA 3114 - The Discourses of the City II: Antiquity and the Middle Ages

Three credits. Three hours of discussion a week. Prerequisites: HUMA 3101, HUMA 3113, HUMA 3033.

Interdisciplinary course designed as an option to complete the second part of the humanities requirement of the general education component, in which discourses and representations of the city in antiquity and

the medieval world are studied. The city is examined from different disciplines and through various strategies, including the reading and discussion of texts, audiovisual resources, fieldwork and research exercises. Geography focuses on Rome and Byzantium, among other cities, always in counterpoint to the city and the various aspects of today's urban experience. Face-to-face, hybrid, distance learning and online course.

HUMA 3121 - Transatlantic Literature: From Conquest to Baroque
Three credits. Three hours of discussion a week.
This course is designed as an option to fulfill the literature requirement of the general education component. It establishes a historical, critical and analytical overview of transatlantic literature, with emphasis on the study of the representation of exchanges, clashes and/or cultural reactions that arise as a result of the conquest of America. Due to its interdisciplinary nature, the reading, analysis and discussion of literary works will be complemented by the study of other theoretical texts (philosophical, literary, political, legal)
or cultural manifestations (visual, musical, etc.) That they help to configure a more integrated and critical image of the various power dynamics that make up this literate cartography of transatlantic crossings from the period of the conquest to the Baroque. Face-to-face, hybrid,
a a distance and online.

HUMA 3122 - Transatlantic Literature: From Enlightenment to Contemporaneity.
Three credits. Three hours of discussion a week.
This course is designed as an option to fulfill the literature requirement of the general education component. It establishes a historical, critical and analytical overview of transatlantic literature with an emphasis on the study of the representation of cultural exchanges, clashes and/or reactions that arise on "both sides of the Atlantic" from the eighteenth century to the present. The reading, analysis and discussion of the literary works will be complemented by the study of other artistic and cultural manifestations that help to figure a broader picture of the various power dynamics that make up this literate cartography of the transatlantic crossings. Face-to-face, hybrid, distance learning and online course.
HUMA 3136 - Ancient Hebrew Culture in the Mediterranean Context
Three credits. Three hours of discussion a week.
This course is an option to fulfill the humanities requirement of the general education component of the Rio Piedras campus. Ancient Hebrew culture is examined in its physical and cultural environment. From an inter- and transdisciplinary perspective, the course will examine the literature, history, ideological framework, cross-cultural transactions, and the enduring impact on Western cultures of this important root of our civilization. It will make use of the methodology of literary criticism, archaeology, linguistic examination, and religious and cultural anthropology. Covering the period from 3000BC to 500AD, it will emphasize its relationship with other neighboring cultures, such as the Mesopotamian, Egyptian, and Aegean. It traces the development of Hebrew thought from its origins, through the period of the great empires, to the Hellenistic and Roman periods, and casts a rapid view of the later development of Judaism to the present.
HUMA 3201 - Introduction to Western Culture III
Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101 - 3102.

Critical reflection on the Western cultural process from the Middle Ages to the Renaissance, emphasizing the areas of literature, philosophy, art, history, and religious ideas through the analysis of the most representative works and texts of those periods and their relationship with the contemporary world.
HUMA 3202 - Introduction to Western Culture IV
Three credits. Three hours of lecture a week. Prerequisite: HUMA 3101- 3102.

Critical reflection on the Western cultural process from the eighteenth century to the present day,

emphasizing the areas of literature, philosophy, art, history and religious ideas through the analysis of the most representative works and texts of those times.
HUMA 3211 - Western Culture: Medieval and Renaissance
Three credits. Three hours of discussion a week.
The course is designed as an option to fulfill the humanities requirement of the general education component. It analyzes the conflicts, changes, and transformations faced by the peoples of Western Europe during this fascinating historical period: from the Middle Ages to the Renaissance, the "discovery," conquest, and colonization of the New World, and the beginnings of the Modern Era. From interdisciplinary perspectives, it examines the realities of a fragmented Europe, after the end of the Roman Empire, the new visions, powers and problems of the Catholic Church, the new dimensions and possibilities of the human being in the Renaissance, and the development of a new economic order, the product of great changes; All in necessary dialogue with other cultures, specifically the Byzantine Empire and Islam. Face-to-face, hybrid, distance learning and online course.
HUMA 3212 - Western Culture: Modern and Even Contemporary Era

Three credits: three hours of discussion per week.
The course is designed as an option to fulfill the humanities requirement of the general education component. It begins with the rationalism of the late seventeenth century and culminates with the perspectives that mark the cultural panorama of the present. From a multi- and interdisciplinary perspective, guided by thematic threads, the Western intellectual and social production of the periods that we define as "modernity and postmodernity" is analyzed. Aspects of the scientific revolution of the late seventeenth century are critically examined; the enlightened culture of the eighteenth century; the French Revolution and American independence; the sensibility of the Romantic movement; the rise of capitalism and the industrial revolution; the consolidation of the bourgeois subject, naturalism, realism and the historicist discourse of the nineteenth century; the avant-garde movements and the great conflicts of the 20th century; the problematization of the modern and postmodern project. Face-to-face, hybrid, distance learning and online course.
HUMA 3215 - Space and Culture: The Medieval Cathedral
Three credits. Forty-five minutes of lecture, one hour and fifteen minutes of discussion and one hour of workshop per week.
This course is designed as an option to fulfill the Humanities requirement of the General Education component. It uses the space of the medieval cathedral to explore/study how human beings of the Late Middle Ages developed and related to it, from the perspectives of the various humanistic disciplines. Based on the study of original works, the arts (architecture, fine arts, music, theater), history, sciences, power, literature, religion, education, philosophy and the development of vernacular and transportation, construction and information technologies will be addressed. From the space of the medieval cathedral, links will be drawn with other historical moments and with Puerto Rican contemporaneity. Face-to-face, online, hybrid and distance learning course.
HUMA 3501 - Art and Culture of India from the 24th Century B.C. to the 12th Century A.D.
Three credits. Three hours of lecture a week.
The course is designed as an option to fulfill the arts requirement of the general education component. It approaches Indian art and culture from inter- and trans-disciplinary perspectives. Works of art and representative cultural manifestations from 2,300 B.C. to the 12th century A.D. will be studied. It covers
the beginnings of the Harappan civilization, the art and aesthetics of Hinduism and Buddhism, the rock culture of Buddhists, Hindus and Jains, and the development of the Hindu temple in South India. Emphasis will be placed on the richness and diversity of Indian art and on the understanding of its philosophical-religious and socio-political context. A dialogue will be fostered on the convergences and divergences between the arts of the East and those of the West.

HUMA3502 - Indian Art and Culture from the 10th to the 21st Century A.D.

Three credits. Three hours of discussion a week.
The course is designed as an option to fulfill the arts requirement of the general education component. Representative works of art and cultural manifestations of India, from the 10th to the 21st century, will be studied from inter- and transdisciplinary perspectives. It encompasses North Indian temples, Islamic art, the Hindu Meenakshi temple in Mudarai. Tamil Nadu in the south; colonial and contemporary, religious and secular art. Emphasis will be placed on the richness and diversity of art and its cultural manifestations, on the understanding of their philosophical, religious, historical, political, economic, social and socio-political context. A dialogue will be fostered on the convergences and divergences between the arts of the East and those of the West.

INEL 3105 - Analysis of electronic systems
Three credits. Three hours of lecture a week. Prerequisite: MATE 3152 Calculus II or its equivalent. Analysis of direct current and alternating current circuits: laws and concepts that characterize their behavior. Op-amps; Sinusoidal steady-state analysis: phasor concept; Power analysis of single-phase circuits.
INGE 3011 - Engineering Graphics I
Two credits. One hour of lecture and three hours of lab per week. Prerequisites: Admission to RRP's pre-engineering program.
Language principles: fundamentals of delineation, analysis, and solution of spatial problems, symbols, and standards, with applications in engineering. Freehand drawing as a tool for visualization. Principles of orthographic projection, sections, auxiliary views, and conventional practices. Pictorial drawings: axonometric, oblique and perspective. Introduction to descriptive geometry. Hand drawn and computer aided.
INGE 3016 - Computer Algorithms and Programming
Three credits. Three hours of lecture a week. Correquisite: MATE 3151.
Development of algorithms and their implementation using a high-level structured language. Programming techniques applied to the solution of engineering and mathematical problems.
INGE 3017 - Computer Graphics
Two credits. Two hours of lecture and two hours of labs per week. Prerequisites: INGE 3011 (Engineering Graphics I) or INGE/INME 3809 (Creative Design I).
Fundamentals of engineering graphics through the use of computers. Description of equipment, development of programs and databases, use of commercial solid modeling programs and databases, modeling of geometric figures and documentation.
INGE 3031 - Engineering Mechanics: Statics
Three credits. Three hours of lecture a week. MATE 3151 correquisite.
Analysis of force systems, the laws of equilibrium, analysis of simple structures, loads, distributions, friction, centroids and moments of inertia.
INGE 3032 - Engineering Mechanics: Dynamics
Three credits. Three hours of lecture a week. Prerequisites: INGE 3031 and FISI 3171. Kinematics of rigid body particles; relationships between force, mass, and acceleration; work and energy; momentum and momentum.
INGE 3045 - Materials Science for Electrical Engineers
Three credits. Three hours of lecture per week prerequisite: QUIM 3002.
Principles that determine the properties of conductors, semiconductors and insulators: electrochemical properties, diffusion, electrical conduction, thermal conduction, magnetic and optical properties.
INGE 3809 - Creative Design I
Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisites: admission to the articulated transfer program in engineering at the UPR-RP.
Introduction to engineering problem-solving methods and design processes as a systematic methodology. Introduction to basic engineering standards and graphic communication conventions. Fundamentals of graphical visualization including freehand drawing of three- dimensional and two-dimensional objects. Fabrication of conceptual models in three dimensions. Use of computer-aided modeling as a tool for

visualization and analysis of engineering problems.
ENGLISH 3161 - Basic English Intensive I
Three credits. Three hours of discussion a week. Prerequisite: 469 or less on the CEEB-ESLAT exam (ACFTL Proficiency Guidelines). Corequisites: INGL3136
This course fulfills the English requirement for the general education component. It is designed for the development of basic English skills necessary for text comprehension and intelligible oral and written communication. Language skills are developed through writing and conversation.
The discussion of interdisciplinary texts promotes oral and critical thinking skills. Writing reinforces reading, speaking, and listening skills, so students can express ideas through effective articulation of vocabulary and grammar. The course requires lab sessions. Face-to-face, hybrid, distance learning and online course.

ENGLISH 3162 - Basic English Intensive II
Three credits. Three hours of discussion a week. Prerequisites: INGL 3161 and INGL 3163. Corequisites: INGL 3164.
This course fulfills the English requirement for the general education component. The development of basic language and critical thinking skills presented in the Intensive Basic English Course I continues. The integration of these skills to achieve an effective communication of ideas on related topics is highlighted. Writing, reading, speaking, and listening skills are integrated and strengthened through reading and analyzing stories. Class discussion of these works of fiction provides the context for developing vocabulary, inviting interaction, and engaging students in the exchange of ideas through essay writing. The course requires lab sessions. Face-to-face, hybrid, distance learning and online course.
ENGLISH 3101 - Basic English I
Three credits. Three hours of lecture a week.
Organized to address the student's immediate needs in English language proficiency, while strengthening their cultural and professional growth. Development of reading and writing skills. Face-to-face, hybrid, distance learning and online course.
ENGLISH 3102 - Basic English II
Three credits. Three hours of lecture a week.
Organized to address the student's immediate needs in English language proficiency, while strengthening their cultural and professional growth. Development of reading and writing skills. Placement criteria: CEEB-ESLAT score of 460-569. Face-to-face, hybrid, distance learning and online course.
ENGLISH 3103 - Intermediate English I
Three credits. Three hours of lecture a week. For students who have average English language proficiency. Analysis of selected readings, such as essays, fiction, poetry, or drama, and writing practice with attention to grammar and idiomatic expressions.
ENGLISH 3104 - Intermediate English II
Three credits. Three hours of lecture a week.
Analysis of selected readings, such as essays, fiction, poems, or drama, and practice in writing with attention to grammar and idiomatic expressions.
ENGLISH 3123 - Computer-Aided Academic Writing
Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week. Prerequisite: ESLAT 581-680 (COLLEGE BOARD)
This is a two-semester course in writing using the computer that meets the first-year English requirements. The purpose of the course is to develop those writing, reading, and reasoning skills that are necessary for students to successfully complete their college courses. The course introduces effective reading strategies and academic essay writing techniques in the disciplines of social sciences, natural sciences and the humanities. The purpose of the computer is to facilitate the writing process in its different stages in order to obtain a more original, complete, coherent and polished final product.
ENGLISH 3124 - Computer-Aided Academic Writing
Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week. Have

passed the first semester.
This is a two-semester course in writing using the computer that meets the first-year English requirements. The purpose of the course is to develop those writing, reading, and reasoning skills that are necessary for students to successfully complete their college courses. The course introduces effective reading strategies and academic essay writing techniques in the disciplines of social sciences, natural sciences and the humanities. The purpose of the computer is to facilitate the writing process in its different stages in order to obtain a more original, complete, coherent and polished final product.
INGL 3011 - Honours English I
Three credits. Three hours of lecture a week.
It is offered to students with good command of the English language and who wish to do advanced work in the language. Literary genres are studied and written profusely. Students who successfully pass this course do not need to take any other undergraduate English courses unless required by their faculty. Face-to-face, hybrid, distance learning and online course.

INGL 3012 - Honours English II
Three credits. Three hours of lecture a week.
It is offered to students with good command of the English language and who wish to do advanced work in the language. Literary genres are studied and written profusely. Students who successfully pass this course do not need to take any other undergraduate English courses unless required by their faculty.
ENGLISH 3135 - The Journey in Literature
Three credits. Three hours of discussion a week.
This course is an alternative to fulfill the literature requirement of the general education component. The narrative of the journey is analyzed in a variety of texts, including fiction, non-fiction, prose, drama, film, and poetry, in order to understand the relationship of these works to the themes of self- discovery, cultural identity, personal achievement, and the search for meaning. Students and teacher will look at the narrative masters of the journey, in literary texts as a window into various issues. The course can be varied to emphasize a type of journey, a specific time, a related theme, or representations of travel in a specific literary genre. The teacher will use one or more of the following approaches: scientific discovery, gender, sexual preference, personal and national identity, race, colonialism, postcolonialism, and philosophy.
ENGLISH 3151 - The Human Condition in Literature: Interdisciplinary Perspectives I

Three credits. Three hours of lecture a week.
Optional course to meet the literature requirement of the general education component. A variety of topics about the human condition, related to identity, love, and their value conflicts in daily life are examined from the perspectives of literature and other disciplines, such as the social sciences, communications, arts, natural sciences, and humanities. Through an interdisciplinary approach, students explore the construction of knowledge and its interrelationships. They critically evaluate and analyze their environment through writing and oral discussions, allowing them a better understanding of themselves and the other. Students develop their writing and communication skills through short papers or studies, creative reviews and assignments, interactive class discussions and presentations, and a research paper.
ENGLISH 3152 - The Human Condition in Literature: Interdisciplinary Perspectives II

Three credits. Three hours of lecture a week.
Optional course to meet the literature requirement of the general education component. A selection of contemporary issues on the human condition related to the concept of alienation, justice, and ethics are examined from the perspective of literature and other disciplines, such as the social sciences, humanities, communications, arts, and natural sciences. Students explore the construction of knowledge in a variety of texts and their relationship to their environment. They learn to critically evaluate and analyze through reading, class discussions, and writing. The development of technological and research skills is promoted through research work, where students select, evaluate and use information from different sources.

Improvement of communication and writing skills is encouraged through short papers, outlines, creative assignments, interactive class discussions, and presentations.

ENGLISH 3211 - Advanced English I
Three credits. Three hours of lecture a week. Prerequisites: Score of 4 or 5 on the College Board placement exam.
Development of reading, discussion, and writing skills through experience, interpretation, and evaluation of short stories, modern drama, poetry, and essays. Introduction to library research skills related to the study of literature.
INSI 3001 - Basic Communication in English I
Three credits. Three hours of discussion a week.
Intensive course designed for students of the interdisciplinary and multicultural institute (INIM) who lack and/or possess little knowledge of English. This course will focus on oral communication, reading and writing English in social contexts. Emphasis will be placed on the development of communication skills.
INSI 3002 - Basic Communication in English II
Three credits. Three hours of discussion a week. Prerequisite: INSI 3001.
Intensive course designed for students of the Interdisciplinary and Multicultural Institute (INIM) who have a basic or limited knowledge of English. This course will focus on oral communication, reading and writing English in social contexts. Emphasis will be placed on continuing to develop the communication skills studied in the Basic Communication in English course.
INSI 3101 - Intermediate Communication in English I
Three credits. Three hours of discussion a week. Prerequisites: INSI 3002.
Intensive course designed for students of the Interdisciplinary and Multicultural Institute (INIM) with intermediate beginner knowledge of English. In this course, emphasis will be placed on oral communication, reading and writing of English in social contexts. Emphasis will be placed on the development of communication skills.
INSI 3102 - Intermediate Communication in English II
Three credits. Three hours of discussion a week. Prerequisite: INSI 3101.
Intensive course designed for students of the Interdisciplinary and Multicultural Institute (INIM) with intermediate knowledge of English. This course emphasizes oral communication, reading, and writing skills of English in social contexts. Emphasis will be placed on continuing to develop the communication skills studied in the English Intermediate Communication I course.
INSI 3301 - English for Professional Development I
Three credits. Three hours of lecture a week. Prerequisite: placement exam offered by INIM. Course designed for students of the Interdisciplinary and Multicultural Institute (INIM) in which listening comprehension and oral production in English are developed. It promotes confidence in speaking English in people who are looking for a job or who work in the labor field. Emphasis is placed on internal institutional communication. Effective oral communication is stimulated through various exercises. In addition, reading and writing skills are developed by providing flexible guides that can be adjusted to different employment situations. Participants will do electronic research in search of oral and written forms of effective and useful communication.
INSI 3302 - English for Professional Development II
Three credits. Three hours of lecture a week. Prerequisites. INSI 3301.
Course designed for students of the Interdisciplinary and Multicultural Institute (INIM) in which the development of the communication skills initiated in the English for Professional Development I course is continued. These skills are necessary for people who are looking for a job or who are working in the field. Communication external to the institution is emphasized. Effective oral communication is stimulated through various exercises related to work situations. It also aims to strengthen and broaden reading and writing proficiency by providing flexible guides that can be adjusted to different situations in the workplace. Participants will do electronic research in search of oral and written forms of effective and useful communication.

INSI 3401 - Conversational English I
A credit. One hour of discussion a week. Prerequisites: placement exam offered by INIM. Conversational English course designed for students of the Interdisciplinary and Multicultural Institute (INIM) with no or limited knowledge of English. Oral communication skills are developed within various social contexts.
INSI 3402 - Conversational English II
A credit. One hour of discussion a week. Prerequisites: placement exam offered by INIM (interdisciplinary and multicultural institute).
Conversational English course designed for students of the Interdisciplinary and Multicultural Institute (INIM) with a basic knowledge of English. This course provides the student with more practice in the use of the English language. Dialogues are used to reinforce vocabulary and structural patterns. Students are encouraged to apply vocabulary and structural patterns to new situations.
INSI 3403 - Conversational English III
A credit. One hour of discussion a week. Prerequisites: placement exam offered by INIM. Conversational English course designed for students of the Interdisciplinary and Multicultural Institute (INIM) with an intermediate or advanced level of English. It offers the student more practice in the use of the English language. Continued development of listening skills is emphasized to strengthen students' listening skills. This course increases and strengthens the vocabulary and structural patterns acquired in past experiences with the English language while providing an opportunity to generate new and more complex structures.
INSI 3405 - Writing in English
Three credits. Three hours of discussion a week.
Writing course designed for students of the Interdisciplinary and Multicultural Institute (INIM) with an intermediate or advanced level of English. Develop English writing with an emphasis on effective style and critical analysis. The formal elements of the essay and the development of arguments will be examined. Students will work accurately and clearly on the wording.
INTD 3045 - Introduction to Gender Debates
Three credits. Three hours of lecture a week.
This core course of the minor focuses on the tension between theories that seek to explain gender as a social construct and the development of feminism as a political struggle. The course consists of 5 units that will articulate a theoretical matrix that fosters the understanding of the sex/gender relationship.
INTD 3036 - Feminist Theories and Methodologies
Three credits. Three hours of lecture a week.
This course examines some fundamental texts of feminist thought, as well as various genealogies and critical conceptions, and delves into debates on feminist epistemology. Students will become familiar with the feminist critique of different fields of knowledge. Some of the recurring themes of feminist theorizing and its relationship to the political struggles of women and lgbttqiap+ communities will be addressed. Importance will also be given to anti-racist, decolonial, community, and transfeminist feminist struggles. This course will be offered in face- to-face, hybrid and online modalities.
INTD 5115 - Gender Studies Advanced Independent Study Seminar or Course
Three credits. Three hours of lecture a week. The course has three strands or options - seminar, internship, independent study.
Elaboration of research, practice project designs or strengthening a particular area of study. A work proposal will be formulated with the themes and objectives of the curricular sequence of women's and gender studies. (c)
INTD 3035 - Seminar on History, Women and Gender in Puerto Rico in the Twentieth Century
Three credits. Three hours of seminar per week.
Elective course that aims to analyze a sample of historical approaches in which the study of the categories of women and gender reveals special specificities, so it is necessary to investigate them from their own perspectives. The main themes are (1) work as liberation or oppression, (2) political action, (3) legality, health, and religion, and (4) literature.
INTD 3037 - Gender and Performance: The Body Gets Updated

Three credits. Three hours of seminar per week.
Elective course in which the history of representation through contemporary dance will be studied, from a gender perspective. It is a theoretical and practical seminar, leading to the approach of a scenic experience of individual creation where the primordial elements are the body and movement. The work proposal is in turn framed in an intellectual experience that theorizes aspects of the history of the representation of the sexed body in contemporary performance.
INTD 3046 - Women's Writings
Three credits. Three hours of lecture a week.
Analysis of the literary corpus written by women based on the theorization that has been made about women's writing. A historical perspective will be used and literary genres such as the diary, autobiography, epistolary novel and testimony will be explored.
INTD 3055 - Introduction to the Study of the Male Gender
Three credits. Three hours of lecture a week.
The approaches, theories and paradigms that have served as the basis for masculine gender studies are analyzed, to explore the central referents of what is usually called "hegemonic masculinity ".
INTD 4046 - Politics of the Body and Revolution
Three credits. Three hours of lecture a week.
This interdisciplinary course explores the political and sociocultural construction of the body in modernity, addressing the contradictions inherent in that construction. Legal, medical, literary, commentary and social chronicle, cinema, art and caricature texts are studied, with attention to textual pornography.
INTD 4990 - Seminar on Gender, Sexualities and Writing Three credits. Three hours of seminar per week. The course can be repeated up to three times as long as the topic is different.
This umbrella seminar opens spaces to elucidate the relationship between gender, sexualities and writing from an interdisciplinary perspective. The course approaches gender from a diversity of texts that are not limited to the literary to investigate the ways in which gender and sexualities are interpreted from the space of representation implied by writing. The seminar also examines the ways in which gender is mediated by other categories such as race, class, nationality, among others. The course aims to cover specific topics of gender studies such as alterity, politics of the body, subject, identity, among others. The seminar involves an essential research component. Subject-specific courses taught under umbrella will serve to satisfy elective requirements of the curriculum sequence in women's and gender studies. The course can be repeated up to three times as long as the topic is different.

INTD 4991 - Seminar on Body Practices
One to six credits. Three hours of seminar per week.
This umbrella seminar explores the relationship between body practices and knowledge production from an interdisciplinary perspective. It approaches body-centered sociocultural practices through feminist and queer methodological strategies. It can be approached from a variety of disciplines and practices, such as the performing arts, performance, visual arts, sports, or other body-centered practices. The body is understood here as biased by gender, sexuality, race, and class. The course approaches research with and from the body as a producer of knowledge, memory, archive, alterity, subjectivity and identity. It involves a research component. The subject-specific courses taught under this umbrella will serve to satisfy the elective requirements of the curriculum sequence in women's and gender studies. The course can be repeated up to three times as long as the topic is different.

INTD 4992 - Seminar on Gender and Education
Three credits. Three hours of seminar per week.
This double-coded umbrella seminar explores the relationship between education and gender studies from an interdisciplinary perspective. The course approaches concepts such as difference, diversity and otherness in connection with the constitution of gender, sexuality and race identities/subjectivities. It approaches current debates on these issues by considering formal or informal educational contexts, and

from practical and theoretical perspectives. It opens possible research topics that arise from discussions on inequalities, androcentrism in knowledge, as well as theories and practices based on democracy and human rights. It can be approached from a variety of disciplines, including pedagogy, history, anthropology, sociology, philosophy, arts, and literature. Courses on specific topics taught under this umbrella can be held up to three times as long as the subject is different.

INTD 4993 - Seminar on Gender and Visualities

One to six credits. Three hours of seminar per week.

This umbrella seminar will serve as an interdisciplinary space to investigate the visual arts from a gender perspective. Considering art history, visual studies, and artistic practice, the course provides the possibility to examine visual culture considering key aspects such as the representation of sex/gender/sexuality/race/class, body politics, alterity, subject and identity, construction and denaturalization of gender, among others. Through the seminar, students will be exposed to the visual arts as a possible space for reflection and knowledge in and for academic research. The courses of specific subject taught within this umbrella that will change every semester can be repeated up to three times as long as the topic is different.

INTD 4997 - Seminar on Gender and Philosophy

Three credits. Three hours of seminar per week.

This umbrella seminar opens spaces to elucidate the relationship between gender from the specific areas of philosophy, such as ontology, epistemology, ethics, aesthetics, philosophy of science, philosophy of language, political philosophy, theology, among others. In addition, the course is designed to cover specific topics of gender and gender studies such as alterity, body politics, subject and identity, among others. The course involves a research component. The subject-specific courses taught within this umbrella will serve to satisfy the electives required of the curricular sequence in women's and gender studies. The course can be repeated up to three times as long as the topic is different.

INTD 4999 - Reading Seminar on Gender Studies

One to six credits. One to six hours of seminar.

This umbrella seminar includes the discussion and analysis of a series of readings around the studies of gender, sexuality, race and class, from their intersectional character. Approaching them from an interdisciplinary perspective, the course can deal with topics related to history, social sciences, literature, art, science, philosophy, among others, examining the scope and limits of their various approaches. It explores the current debates on these issues, as well as the previous discourses that formed their foundations. The specific thematic focus of the course will change each semester. Depending on the particular topic chosen, the course examines the possible research topics that emerge from the discussions. The course can be taught with varying credits allowing for anything from short intensive seminars to lengthy courses.

COLLEGE OF HUMANITIES

Webpage: http://humanidades.uprrp.edu/
Tel. (787) 764-0000, ext. 89739
Email: humanidades.rrp@upr.edu
Address: Buildings Felipe Janer, Luis Palés Matos, Sebastián González García, Eugenio María de Hostos, Agustín Stahl y Antonio S. Pedreira
Facultad de Humanidades
13 Ave. Universidad Ste. 1301
San Juan, PR 00931-2533

Administration

Dean Dra. Agnes M. Bosch Irizarry
Associate Dean: Dr. Luis A. García Nevares
Associate Dean of Graduate Studies: Dra. Laura Bravo López
Associate Dean of Student Affairs: Sra. Julissa Rodríguez Rivera
Associate Dean of Administrative Affairs: Sr. Carlos Juan García García
Department Chairs
- Department of Fine Arts: Dr. Raymond Cruz Corchado
- Department of Drama: Dr. Nicolás Luzzi Traficante
- Department of Hispanic Studies: Dr. Emilio R. Báez Rivera
- Department of Philosophy: Dra. Dialitza Colón Pérez
- Department of History: Dr. Marcial Ocasio Meléndez
- Department of English: Dr. Richard A. Swope
- Department of Foreign Languages: Dra. María D. Villanua Vega
- Department of Comparative Literature: Dra. Marian E. Polhill
- Department of Music: Dr. Irvin Santiago Díaz

Program/Area Coordinators
- Program inInterdisciplinary Studies: Dra. Sunny Cabrera Salcedo
- Program in Art History: Dra. Mercedes Trelles Hernández
- Graduate Program in History: Dra. María del C. Baerga Santini
- Graduate Program in English: Dr. Patrick-André Mather
- Graduate Program in Hispanic Studies: Dra. María L. Lugo Acevedo
- Master's Program in Cultural Management and Administration: Dra. Mareia Quintero Rivera
- Graduate Program in Linguistics: Dra. Alma Simounet Bey
- Graduate Program in Comparative Literature: Dr. Antoine Phillippe
- Graduate Program in Translation: Dra. Zaira Rivera Casellas
- Seminar José Emilio González: Sr. José A. Robledo González
- Seminar Federico de Onís: Dr. Miguel A. Náter Maldonado
- Center for Historical Research: Dr. Marcial Ocasio Meléndez
  History

The Faculty of Humanities was founded in 1943 and has since beinthe leading center for academic, research, and creative humanistic production in the country. Its mission is to provide students with a broad education in the humanities, emphasizing a particular area of interest at the undergraduate level and offering top-tier preparation in theory and research within each graduate specialty. Additionally, it offers the academic and intellectual WITHditions for graduates—trained in critical and creative thinking—to pursue advanced studies or enter the workforce in professions and other activities enriched by knowledge, sensitivity, and values aligned with the humanistic perspective. At every level, students receive the best

comprehensive and specialized training in their respective disciplines, with a core humanistic foundation, and develop the necessary skills to succeed in their chosinfields.

The Faculty of Humanities seeks to promote the study and appreciation of the great works of humanity within a historical and cultural framework, approached through a critical and interpretive lens. The humanities opindoors in all imaginable and unimaginable directions, as they most directly touch the fibers of individual and social sensitivity, historical memory, broad cultural understanding, and communication as an essential pathway for social and political interaction, both nationally and internationally. Within this vision, all human activity should be framed—from those that form part of the canon and tradition to those WITHsidered more everyday and emerging—in a new sociohistorical, global, and multicultural WITHtext, interWITHnected by technological innovations.

The Faculty of Humanities includes undergraduate and graduate departments and programs, many of which are unique and pioneering 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 does the Program of Interdisciplinary Studies (PREI), which complements the bachelor's degree with a master's in Cultural Management and Administration (MAGAC). The Graduate Programs in Linguistics and Translation offer master's degrees. Additionally, the Art History Program and the Departments of Fine Arts, Foreign Languages, Music, and Drama offer bachelor's degrees in their respective disciplines.

The Faculty's role extends beyond its own programs, offering a range of art and literature courses that form part of the General Education component of the campus, as well as core requirements and electives for other faculties, such as the Faculty of Education and the Faculty of Communication and Information, among others.

The Faculty of Humanities houses documentary collections such as the Federico de Onís Seminar and the Center for Historical Research—two important repositories for documents and research. Seminars in Art History, Philosophy, Music, and English enrich the research experience in these fields. The Faculty also provides exhibition and performance spaces for artistic endeavors in visual arts, music, theater, and dance, including the Francisco Oller Art Gallery, Gallery 209, the Julia de Burgos Theater, and the Music Department Auditorium. Due to the nature of its disciplines, the Faculty maintains a close relationship with the UPR Theater, the Aula Magna of our University. In all these spaces—as well as in the Quadrangle, the Rotunda, and the Baldorioty de Castro Plaza—the creative and artistic work of greatest reach on campus is produced and showcased by students, faculty, local and international artists, both renowned and emerging, in classical and experimental repertoires.

The Faculty also offers opportunities to participate in theatrical and musical groups such as the Touring Theater, the University Choir, the WITHcert Choir (Coralia), the Symphonic Band, the Lyric Theater, the Chamber Orchestra, the Criollo Ensemble, and the Classical Guitar, Clarinet, Flute, Popular Music, and Jazz ensembles. These are complemented by student organizations from various disciplines. The research and creative work of our academic community is disseminated through print and digital media, including *Tonguas*, *Diálogo*, *Op. Cit. Revista del Centro de Investigaciones Históricas*, *Historia y Sociedad*, *Revista de Hispanic Studies*, *Cuadernos de Lingüística*, *Bambalinas*, and *Sargasso*.

Recognitions and Accreditations

The Faculty of Humanities has beinwidely recognized by national and international institutions for the academic and artistic work of its faculty and students. It has received grants from the National Endowment for the Humanities, the National Endowment for the Arts (NEA), the Puerto Rican Foundation for the Humanities (FPH), and the Mellon Foundation. Additionally, the Teatro Rodante has beinhonored at international festivals, such as the 22nd Ibero-American Festival of WITHtemporary Theater in Almagro. The Department of Drama was recognized for its excellence in undergraduate acting

training by the University Resident Theatre Association (URTA).

The UPR WITHcert Choir, Coralia, has performed alongside the Puerto Rico Symphony Orchestra in various WITHcerts, including the Casals Festival, and has received several international awards. Among the most notable recent recognitions are:

- The prestigious Florilège Vocal International Competition in Tours, where they won multiple awards across different categories;
- The European Grand Prix for Choral Singing in Hungary, where they were finalists; and
- The International Choral Competition Guido D'Arezzo, where they earned third place in the secular category.

Degrees Offered

- Bachelor of Arts with majors in:
  Visual Arts, Drama, Hispanic Studies, Interdisciplinary Studies, Philosophy, History, Art History, English, Modern Languages, Comparative Literature, and Music.
- Master of Arts with specializations in:
  Hispanic Studies, Philosophy, History, English, Linguistics, Comparative Literature, Translation, and Cultural Management and Administration.
- Doctor of Philosophy (Ph.D.) with specializations in:
  Hispanic Studies, History, and English

Student Services

- Advising and Academic Support
  Guidance and academic advising services are available through the Assistant Dean's Office for Student Affairs and Orientation.
- Spaces for Creation and Dissemination
  - Jorge Enjuto Hall
  - Music Auditorium
  - Francisco Oller Gallery
  - Gallery 209
  - Julia de Burgos Experimental Theater
  - Teatrito
- Laboratories
  - Electronic Music Laboratory
  - Piano Laboratory
- Student Technology Service Centers
  - English Department Writing Center
  - Foreign Languages Media Library
  - Center for Applied Music Technology (CETAM)
  - Computer Lab for Student Use
- Study and Research Units
  - Center for Historical Research
  - Federico de Onís Seminar in Hispanic Studies
  - Cristóbal Ruíz Seminar in Art History

- Ludwig Schajowicz Seminar in Philosophy
- Lewis C. Richardson Seminar in English
- José E. González Multidisciplinary Seminar

Admission Requirements

New Admissions

- The minimum required admission GPA is reviewed annually and varies by academic program; it typically ranges betwein2.50 and 2.80.
- The Departments of Fine Arts, Music, and Drama admit students based on demonstrated skills.
- The Department of Fine Arts requires a portfolio review. For more information, please call 787-764-0000, extensions 89434 or 89396.
- The Department of Music requires an audition and placement test. If the student does not meet the required level, they must pass the course MUSI 3175: Introduction to Sight Reading and Dictation. For details, WITHtact the Department of Music at 787-764-0000, extensions 89740 or 89774.

Readmissions

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

- Must have passed the Humanities year-long course (HUMA 3101–3102) or its equivalent.
- Must have maintained a minimum GPA of 2.50, except for the Bachelor's 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

(For students from other faculties within the campus or from other WITHcentrations within the Faculty)

- Must have completed at least 30 credits at the time of applying for reclassification.
- Must have passed six credits in humanities courses from the Faculty of General Studies (HUMA 3101–3102 or their equivalent).
- Must have maintained a minimum GPA of 2.50, except for:
  - Bachelor's in Interdisciplinary Studies, which requires a minimum GPA of 2.80
  - Bachelor's in Drama and Modern Languages, which require a minimum GPA of 3.00

Department of Music – In addition to meeting the requirements listed above, students must have passed the courses MUSI 3175: Introduction to Sight Reading and Dictation I and MUSI 3176: Introduction to Sight Reading and Dictation II. Applicants who meet the admission requirements will be invited to an interview with the department director.

Transfer Students

(From other units within the University of Puerto Rico system)

- Must have completed at least 30 credits at the time of applying for transfer.
- Must have passed six credits in basic humanities courses (HUMA 3101–3102 or their equivalent).
- Must have maintained a minimum GPA of 2.50, except for:
  - Bachelor's in Interdisciplinary Studies, which requires a minimum GPA of 2.80
  - Bachelor's 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 University of Puerto Rico system)

- Must have completed at least 30 credits at the time of applying for transfer.
- Must have maintained a minimum GPA of 2.50, except for:
    - Bachelor's in Interdisciplinary Studies, which requires a minimum GPA of 2.80
    - Bachelor's in Drama, which requires a minimum GPA of 3.00
    - Bachelor's in Modern Languages, which requires a minimum GPA of 3.50

Note: If the student is transferring from a private institution, the credits earned there are not automatically validated. The student must complete 12 credits at the Río Piedras Campus and thinrequest credit validation through the Assistant Dean's Office for Student Affairs of the Faculty of Humanities. The maximum number of credits that can be validated is 30.

Graduation Requirements

- Must be officially classified within the Faculty of Humanities.
- Must have a graduation GPA and WITHcentration GPA of 2.00 or higher, and have completed 129 credits.
- Must meet the residency requirement—students must complete at least 36 of the last 48 credits at the Río Piedras Campus.

Academic Programs
Program Description
(Note: You may want to include the specific program descriptions here. Let me know if you'd like help translating those as well.)
Fine Arts
Mission:
To provide a comprehensive education that harmonizes general humanistic education with specialized training in the visual arts. In addition to fostering intellectual development and critical thinking through the arts, the program's educational strategies aim to promote study, creation, and independent research in the visual arts. It also encourages the dissemination of research and creative projects directed toward both the local and global communities, and promotes social responsibility through artistic expression.

Drama
Mission:
The Department of Drama at the Río Piedras Campus of the University of Puerto Rico, part of the Faculty of Humanities, offers students a WITHcentration in theatrical arts. Since its founding in 1941 as a dramatic group led by Leopoldo Santiago Lavandero, the Department of Drama has evolved into a complex academic unit offering courses in Theater History, Dramatic Theory, Acting, Pantomime, Lighting, Scenography, Costume Design, Diction, Theater Production, Stage Direction for Teachers, and courses in dance, movement, and body expression.
Through a rigorous academic program, the Department of Drama aims to promote the value of theater in society and its WITHtribution to Puerto Rico's cultural development. Its goal is to introduce the university community to representative works of world theater. It provides WITHcentration students with foundational knowledge of the theatrical arts and the opportunity to experience firsthand the challenges and complexities of theatrical practice in all its dimensions. The Department serves as a workshop where both traditional and experimental theatrical techniques are practiced by and for students. This blend of

tradition and innovation WITHtinuously fosters creative activity.

Hispanic Studies

Mission:

The Department of Hispanic Studies, part of the Faculty of Humanities at the University of Puerto Rico, offers a WITHcentration in Hispanic Language and Literature. Since its founding in 1927, it has served as a meeting place for
creators, researchers, linguists, and literary critics from Puerto Rico, Spain, and the Americas. It has played a leading role in the study of literary and linguistic phenomena in all their complexity, through the interdisciplinary analysis offered in its literature and Hispanic linguistics courses and research seminars. It has beinthe principal academic center for the study of Puerto Rican, Ibero-American, and Spanish culture, language, and literature. The program also includes a graduate component—Master's and Doctoral degrees—with a strong international reputation.

Interdisciplinary Studies

Mission:

The Interdisciplinary Studies Program serves a student population whose academic interests do not align with the offerings of a single department. Through the study and application of theoretical and methodological principles from various disciplines, students explore diverse areas, topics, and problems. The program provides a broad cultural foundation that enables students to pursue careers in a variety of fields or WITHtinue graduate studies in disciplines such as law, translation, gender studies, film and literature, and other specialties that integrate knowledge or perspectives from multiple disciplines.
The program is committed to providing a high-quality undergraduate education, both in theory and in the practice of knowledge. It fosters the holistic development of students and promotes their leadership.

Philosophy

Vision:

To cultivate the study of Philosophy among students through a broad and systematic approach, with the methodological rigor that characterizes our our intellectual discipline in addressing any theoretical or practical question.

History

Mission:

To foster the holistic development of its students through teaching and learning experiences that promote intellectual curiosity, critical thinking, appreciation and cultivation of ethical and aesthetic values, as well as reflection and social responsibility. Its purpose is to provide a high-quality education centered on research, and to offer an excellent academic program that provides a comprehensive vision of knowledge—harmonizing general education with specialized training, while embracing new trends in Cultural History.

Modern Languages

Mission:

To equip students with the skills to learn, use, and appreciate one or more foreign languages, enabling them to perform competently in a variety of academic, social, and professional settings—both orally and in writing. The program also aims to cultivate linguistic competencies

and knowledge in literary, cultural, and professional domains, as well as the development of research skills. Furthermore, it aspires to prepare students to become citizens capable of establishing effective communication links that foster interaction with other cultures.

Art History

Mission:

To offer an academic program focused on the study, research, and creation of the arts, aimed at training professionals and scholars in the field of Art History.

Comparative Literature

Mission:

Comparative Literature is a dynamic, porous, and self-critical academic discipline that WITHstantly redefines both its object of study and its reading and research protocols. The practice of comparative literature involves learning multiple languages, critically valuing the act of translation, understanding diverse literary traditions or textual networks, and skillfully applying specific theoretical tools. These three elements WITHverge in the development of a particular way of reading that is not subordinated to the imperatives of a single linguistic, national, generic, disciplinary, or chronological tradition.

Historically, methodologies for studying literature—rhetoric, poetics, literariness—have evolved from value-based analysis to literary history, from textual commentary to structuralist formalism, from deWITHstruction and its rhetoric of aporias to cultural studies. More recently, in the era of debates on multiculturalism and globalization, Comparative Literature has emphasized the importance of attending to the productive tensions that arise from particularisms. What is compared and how it is compared largely responds to paradigm shifts that influence the diversity of the humanistic field.

The Department of Comparative Literature at the University of Puerto Rico, Río Piedras, seeks to leverage its location at the Caribbean crossroads as a unique site for the production of literary and humanistic knowledge.

Music

Mission and Vision:

The Department of Music promotes education in music from a humanistic perspective. This education encourages the student's holistic development through musical analysis, research, creation, and performance. Through these academic activities, we provide tools for the appreciation of musical art to students in both WITHcentrations—Humanities and Education—as well as to those from other departments and faculties. Additionally, the Department maintains WITHcert series featuring various ensembles that serve both the University and the broader local and international community.

English

Vision:

To create an integrated program that appreciates and studies English as a global language and as a set of linguistic and professional expression skills; dedicated to the research, creation, and dissemination of knowledge—analytical, critical, and theoretical as well as creative, cultural, and communicative—within the WITHtext of WITHtemporary Puerto Rican, Caribbean, Latin American, and international realities.

Mission:

To provide students with a learning and development experience in the English language and the Anglophone world. Through the study of literature, linguistics, and communication, we foster in students intellectual curiosity, critical thinking skills, a comprehensive view of knowledge, and a variety of writing and reading styles within an interdisciplinary framework.

ACADEMIC PROGRAMS

Curricular Sequences

BACHELOR IN ARTS WITH A MAJOR IN PLASTIC ARTS
Area of emphasis: Image Design and Technologies

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	ARTE 3515 - Design Processes I	3
ARTE 3911 - Foundations of Visual Arts I: Two-Dimensionality	3	ARTE 3912 - Foundations of Visual Arts II: Three-Dimensionality	3
Total	**15**	**Total**	**15**

Second year

First Semester	**Crs.**	**Second semester**	**Crs.**
ARTE 3913 - Foundations of Visual Arts III: The fourth dimension	3	ARTE 3073 - Digital Video I	3
ARTE 3731 - Photography Process I	3	ARTE 3063 - Sonic Art I	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
MUSI o TEAT*	3	MUSI o TEAT*	3
Free elective	3		
Total	**18**	**Total**	**15**

*The student will take 3 crs. in MUSI y 3 crs. In TEAT.

Third year

First Semester	**Crs.**	**Second semester**	**Crs.**
ARTE 3071 - Digital Animation I	3	ARTE 4998 - Topics in WITHtemporary Artistic Practice	3
Guided elective in area of emphasis	3	Guided elective in area of emphasis	3
Free elective	3	Free elective	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (the same language)	3

INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
Total	**18**	**Total**	**18**

Fourth year

First Semester	**Crs.**	**Second semester**	**Crs.**
ARTE 4971 - Creative Research Workshop I	3	ARTE 4972 - Creative Research Workshop II	3
LITE	3	Free elective	3
FILO	3	FILO	3
HIST	3	HIST	3
Free elective	3	Free elective	3
Total	**15**	**Total**	**15**

Total credits	**129**

Area of Emphasis: WITH temporary Visual Arts Practices

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	ARTE 3515 - Design Processes I	3
ARTE 3911 - Foundations of Visual Arts I: Two-Dimensionality	3	ARTE 3912 - Foundations of Visual Arts II: Three dimensional	3
Total	**15**	**Total**	**15**

Second year

First Semester	**Crs.**	**Second semester**	**Crs.**
ARTE 3913 - Foundations of Visual Arts III: The fourth dimension	3	ARTE 3815 - Painting processes I	3
ARTE 3401 - Painting I	3	ARTE 3615 – Sculpture Processes I	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
MUSI o TEAT*	3	MUSI o TEAT*	3
Free elective	3		
Total	**18**	**Total**	**15**

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

Third year

First Semester	**Crs.**	**Second semester**	**Crs.**
ARTE 3315 - Printmaking Processes: Relief	3	ARTE 4998 - Topics in WITHtemporary Artistic Practice	3
Guided elective in the area of emphasis	3	Guided elective in the area of emphasis	3
Free elective	3	Free elective	3

CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
Foreign Language I	3	Foreign Language II (the same language)	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
Total	**18**	**Total**	**18**

Fourth year

First Semester	**Crs.**	**Second semester**	**Crs.**
ARTE 4971 - Creative Research Workshop I	3	ARTE 4972 - Creative Research 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	**15**	**Total**	**15**

Total credits	**129**

BACHELOR IN ARTS WITH A MAJOR IN HISPANIC STUDIES

Area of emphasis: General

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART o MUSI o TEAT*	3
		ESPA (course to be chosinfrom the area of Writing or Literary Creation)	3
Total	**15**	**Total**	**18**

*The student will take 3 crs. in HART, 3 crs. in MUSI and 3crs. 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: From the Baroque to the Avant-Garde	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
One course to choose from: ESPA 4265 – Latin American Literature, ESPA 4221 – Latin American Literature I, ESPA 4222 – Latin American Literature II	3	ESPA (elective in Hispanic Studies)	3
ESPA (course to select from the area of Linguistics)	3	A course to choose from ESPA 4267 – Puerto Rican Literature, ESPA 4231 - Puerto Rican Literature I, ESPA 4232 -	3

		Puerto Rican Literature II	
Foreign Language I	3	Foreign Language II (the same language)	3
Total	**15**	**Total**	**15**

Third year

First Semester	**Crs.**	**Second semester**	**Crs.**
FILO (Philosophy)	3	FILO (Philosophy)	3
ESPA (elective in Hispanic Studies)	3	ESPA (elective in Hispanic Studies)	3
Free elective from the College of Humanities	3	Free elective of the . de Humanidades	3
HIST (History)	3	HIST (History)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
LITE (Comparative Literature)	3	Free elective	3
Total	**18**	**Total**	**18**

Fourth year

First Semester	**Crs.**	**Second semester**	**Crs.**
HART o MUSI o TEAT*	3	HART o MUSI o TEAT*	3
ESPA 4886 – Introduction to literary theory or ESPA (elective in Hispanic Studies)	3	ESPA 4887 – Seminar on research methods and writing oftstion; ESPA 4066 - Linguistic Research Seminar **	3
ESPA (elective in Hispanic Studies)	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	**15**	**Total**	**15**

*The student will take 3 crs. in HART, 3 crs. In MUSI y 3 crs. In TEAT.
** Students interested in Linguistics who take the course ESPA 4066 do not need to take ESPA 4886. Instead, they will take an elective in ESPA. The course ESPA 4066 requires a prerequisite of 9 credits in Hispanic Linguistics courses, which must include 6 credits chosinfrom ESPA 4236, ESPA 4116, or ESPA 4008.

Total credits	**129**

Area of emphasis: Hispanic Linguistics

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
		ESPA (course to be chosinfrom the area of Writing or Literary Creation)	3

Total	**15**	**Total**	**18**

*The student will take 3 crs. in HART, 3 crs. in MUSI y 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: From the Baroque to the Avant-Garde	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
One course (3 credits) to be chosINfrom: ESPA 4265 – Latin American Literature, ESPA 4221 – Latin American Literature I, or ESPA 4222 – Latin American Literature II	3	ESPA (elective in hispanic linguistics)	3
ESPA 3013 – Introduction to linguistics - Compendium	3	One 3-credit course to be selected from: ESPA 4267 – Puerto Rican Literature, ESPA 4231 – Puerto Rican Literature I, or ESPA 4232 – Puerto Rican Literature II	3
Foreign Language I	3	Foreign Language II (the same language)	3
Total	**15**	**Total**	**15**

Third year

First Semester	**Crs.**	**Second semester**	**Crs.**
FILO (Philosophy)	3	FILO (Philosophy)	3
One 3-credit course to be selected from: ESPA 4236 – Spanish Morphosyntax, ESPA 4116 – Spanish Lexico-Semantics, or ESPA 4008 – Spanish Phonology and Phonetics	3	One 3-credit course to be selected from: ESPA 4236 – Spanish Morphosyntax, ESPA 4116 – Spanish Lexico-Semantics, or ESPA 4008 – Spanish Phonology and Phonetics	3
Free elective from the College of Humanities	3	Free elective of the College of Humanities	3
HIST (History)	3	HIST (History)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
LITE (Comparative Literature)	3	Free elective	3
Total	**18**	**Total**	**18**

Fourth year

First Semester	**Crs.**	**Second semester**	**Crs.**
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
ESPA 4011 - Hispanic Linguistics: Spanish Diachrony	3	ESPA 4066 – Linguistics Research Seminar	3
Elective in Hispanic Linguistics	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	**15**	**Total**	**15**

Total credits	**129**

Area of emphasis: Spanish Literature

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART o MUSI o TEAT*	3
		ESPA (course to be chosINfrom the area of Writing or Literary Creation)	3
Total	**15**	**Total**	**18**

*The student will take 3 crs. in MUSI y 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: From the Baroque to the Avant-Garde	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
One course to be selected from: ESPA 4265 - Hispanic American Literature; ESPA 4221 - Hispanic American Literature I, ESPA 4222 - Hispanic American Literature I	3	ESPA (elective in Spanish Literature)	3
ESPA (course to select from the area of Linguistics)	3	One course to be selected from: ESPA 4267 - Puerto Rican Literature; ESPA 4231 - Puerto Rican Literature I or ESPA 4232 - Puerto Rican Literature II	3
Foreign Language I	3	Foreign Language II (the same language)	3
Total	**15**	**Total**	**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
Free elective from the College of Humanities	3	Free elective from the College of Humanities	3
HIST (History)	3	HIST (History)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
LITE (Comparative Literature)	3	Free elective	3
Total	**18**	**Total**	**18**

Fourth year

First Semester	Crs.	Second semester	Crs.
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
ESPA 4886 - Introduction to Literary Theory	3	ESPA 4887 - Seminar on Research Methods and Thesis Writing	3
ESPA (elective in Spanish Literature)	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	**15**	**Total**	**15**

Total credits	**129**

Area of emphasis: Hispanic American/Puerto Rican Literature

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
		ESPA (course to be chosinfrom the area of Writing or Literary Creation)	3
Total	**15**	**Total**	**18**

*The student will take 3 crs. in MUSI y 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: From the Baroque to the Avant-Garde	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
One course to be selected from: ESPA 4265 - Hispanic American Literature, ESPA 4221 - Hispanic American Literature I, ESPA 4222 - Hispanic American Literature II	3	ESPA - Elective in Hispanic American/Puerto Rican Literature	3
ESPA (course to select from the area of Linguistics)	3	One course to be selected from: ESPA 4267 - Puerto Rican Literature , ESPA 4231 - Puerto Rican Literature I o ESPA 4232 - Puerto Rican Literature II	3
Foreign Language I	3	Foreign Language II (the same language)	3
Total	**15**	**Total**	**15**

Third year

First Semester	Crs.	Second semester	Crs.
FILO (Philosophy)	3	FILO (Philosophy)	3

ESPA - Elective in Hispanic American/Puerto Rican Literature	3	ESPA - Elective in Hispanic American/Puerto Rican Literature	3
Free elective of the College of Humanities	3	Free elective de la Facultad de Humanidades	3
HIST (History)	3	HIST (History)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
LITE (Comparative Literature)	3	Free elective	3
Total	**18**	**Total**	**18**

Fourth year

First Semester	**Crs.**	**Second semester**	**Crs.**
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
ESPA 4886 - Introducción a la Literary Theory	3	ESPA 4887 - Seminar de métodos de investigación y redacción de tesina	3
ESPA - Elective inHispanic American/Puerto Rican Literature	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	**15**	**Total**	**15**

Total credits	**129**

BACHELOR IN ARTS WITH A MAJOR IN PHYLOSOPHY

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI, TEAT*	3
Total	**15**	**Total**	**15**

*The student will take 3 crs. in HART, 3 crs. inMUSI y 3 crs. inTEAT

Second year

First Semester	**Crs.**	**Second semester**	**Crs.**
FILO - Elective inFilosofía	3	FILO (Antigua)	3
FILO 4031 - Lógica I	3	FILO - Elective infilosofía	3
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
Foreign Language I	3	Foreign Language II (the same language)	3
Free elective from the College of Humanities	3	Free elective	3

First Semester	Crs.	Second semester	Crs.
Total	**18**	**Total**	**18**

Third year

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
FILO (Modern)	3	FILO (Modern)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Free elective	3	Free elective	3
HIST (History)	3	HIST (History)	3
FILO (Antigua)	3	FILO (XXth Century and WITHtemporary)	3
Total	**18**	**Total**	**18**

Fourth year

FIRST SEMESTER	Crs.	SECOND SEMESTER	Crs.
FILO (XXth Century and WITHtemporary)	3	FILO (Elective in Philosophy)	3
FILO (Elective in Philosophy)	3	FILO (Elective in Philosophy)	3
LITE (Comparative Literature)	3	Free elective	3
Course on Style and Writing (see curriculum)	3	Free elective	3
Free elective	3		
Total	**15**	**Total**	**12**

Total credits	**129**

BACHELOR IN ARTS WITH A MAJOR IN HISTORY

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUS o TEAT*	3
Total	**15**	**Total**	**15**

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

Second year

First Semester	Crs.	Second semester	Crs.
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3

First Semester	Crs.	Second semester	Crs.
HIST - Elective in History of Puerto Rico	3	HIST - Elective in History of Puerto Rico	3
HIST 4225 - Theory of History	3	HIST 4226 - Methodology of Historical Research	3
Total	**15**	**Total**	**15**

Third year

First Semester	Crs.	Second semester	Crs.
Foreign Language I	3	Foreign Language II (the same language)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
LITE (Comparative Literature)	3	HART, MUSI o TEAT*	3
HIST - Elective in the area of emphasis	3	HIST - Elective in the area of emphasis	3
HIST - Elective in other geographic areas or thematic history courses	3	HIST - Elective in the area of emphasis	3
Free elective from the College of Humanities	3	Free elective	3
Total	**18**	**Total**	**18**

Fourth year

First Semester	Crs.	Second semester	Crs.
HART, MUSI o TEAT*	3	Free elective from the College of Humanities	3
HIST - Elective in other geographic areas or thematic history courses	3	HIST 4999 - Historical Research Capstone Seminar	3
HIST - Elective in other geographic areas or thematic history courses	3	Free elective	3
HIST 4327 - History Readings Capstone Seminar	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3		
Total	**18**	**Total**	**15**

Total credits	**129**

BACHELOR IN ARTS WITH A MAJOR IN ART HISTORY

Area of emphasis: General History of Western Art

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
HART 3191 – Western Art I	3	HART 3192 – Western Art II	3

First Semester	Crs.	Second semester	Crs.
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	MUSI o TEAT*	3
Total	15	Total	15

*The student will take 3 crs. in MUSI y 3 crs. In TEAT

Second year

First Semester	Crs.	Second semester	Crs.
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
Free elective	3	Free elective	3
HART (elective in Ancient Art)	3	HART (elective in Medieval Art)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HART 3118 - Art in Puerto Rico	3	HART (elective in Non-Western Art)	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART (elective in Art XV-XVIII centuries)	3	HART (elective in Art XIX-XXI centuries)	3
Foreign Language I	3	Foreign Language II (the same language)	3
HART 3256 – Art Theory	3	LITE (Comparative Literature)	3
MUSI o TEAT*	3	HART (elective in area of emphasis)	3
Total	18	Total	18

Fourth year

First Semester	Crs.	Second semester	Crs.
HIST (History)	3	HIST (History)	3
HART 4241 - Research in Art History I	3	HART 4242 - Research in Art History II	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
HART (elective in area of emphasis)	3		
Total	15	Total	12

Total credits	129

Area of emphasis: Caribbean and Latin America Art

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3

First Semester	Crs.	Second semester	Crs.
HUMA (General Studies)	3	HUMA (General Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	MUSI o TEAT*	3
HART 3191 – Westener Art I	3	HART 3192 – Western Art II	3
Total	18	Total	18

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

Second year

First Semester	Crs.	Second semester	Crs.
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
HART 3118 – Art in Puerto Rico	3	HART 3256 – Art Theory	3
Free elective	3	Free elective	3
MUSI o TEAT*	3	HART (elective in Western Artl)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HART 3277 - Pre-Hispanic Art of the Antilles	3	HART 4281 – Hipanic-Amercian Art I	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Foreign Language I	3	Foreign Language II (the same language)	3
HART 4282 – Hispanic-American Art II	3	HART 3136 – Latinoamerican Art XXth century	3
HART (elective in area of emphasis)	3	HART (elective in area of emphasis)	3
Total	15	Total	15

Fourth year

First Semester	Crs.	Second semester	Crs.
HIST (History)	3	HIST (History)	3
HART 4241 – Historical Art Research I	3	HART 4242 - Historical Art Research II	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
LITE (Comparative Literature)	3		
Total	15	Total	12

Total credits	129

BACHELOR IN ARTS IN ENGLISH
LINGUISTICS AND COMMUNICATION

First year

First Semester	Crs.	Second semester	Crs.

ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
Total	15	Total	15

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

Second year

First Semester	Crs.	Second semester	Crs.
INGL (core course in Linguistics to be selected from: INGL 3224, INGL 4205, INGL 4206 o INGL 4208)	3	INGL (core course in Linguistics to be selected from: INGL 3065, INGL 3256, INGL 3257 o INGL 3275)	3
One course to be selected from: INGL 3275 – Theory of human communication or INGL 4205 – Language study: introduction to linguistics	3	INGL - elective course in English of the College of Humanities	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HIST (History)	3	HIST (History)	3
Free elective	3	Free elective	3
Total	15	Total	15

Third year

First Semester	Crs.	Second semester	Crs.
INGL (core course in writing to select from: INGL 3231, INGL 3232, INGL 3291, INGL 3175, INGL 3236, INGL 3237, INGL 3238 o INGL 3286)	3	INGL (core course in literature to select from: INGL 3001, INGL 3002, INGL 3229, INGL 3251, INGL 3252, INGL 3259, INGL 3285 o INGL 4256)	3
INGL – course on the area of emphasis in linguistics or communication	3	INGL - course on the area of emphasis in linguistics or communication	3
Free elective	3	Free elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
INGL (elective course from the College of Humanities)	3	INGL (course with linguistics or communication topics level 4000)	3
Total	18	Total	18

Fourth year

First Semester	Crs.	Second semester	Crs.
INGL (elective course in English from the College of Humanities)	3	A research course to select from: INGL 4230 – Introduction to human communication or INGL 4237 – Introduction to linguistic research	3
Foreign Language I	3	Foreign Language II (the same language)	3

First Semester	Crs.	Second semester	Crs.
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
Free elective from the College of Humanities	3	Free elective	3
Free elective from the College of Humanities	3	Free elective	3
LITE (Comparative Literature)	3		
Total	18	Total	15

Total credits	129

LITERATURE

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
Total	**15**	**Total**	**15**

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

Second year

First Semester	**Crs.**	**Second semester**	**Crs.**
INGL (core course in literature to select from: INGL 3001, INGL 3002, INGL 3229, INGL 3251, INGL 3252, INGL 3259, INGL 3285 o INGL 4256)	3	INGL (core course in writing to select from: INGL 3231, INGL 3232, INGL 3291, INGL 3175, INGL 3236, INGL 3237, INGL 3238 o INGL 3286)	3
A course of British or American Literature to select from: INGL 3001, INGL 3002, INGL 3251 or INGL 3252	3	Un curso de Puerto Rican, Caribbean, Latinoamerican or Migration Literature to select from: INGL 3229, INGL 3259, INGL 3285, INGL 4256	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HIST (History)	3	HIST (History)	3
Free elective	3	Free elective	3
Total	**15**	**Total**	**15**

Third year

First Semester	**Crs.**	**Second semester**	**Crs.**
INGL (core course in linguistics to choose from: INGL 3224, INGL 4205, INGL 4206 o INGL 4208)	3	INGL (core course in comunicación to choose from: INGL 3065, INGL 3256, INGL 3257 o INGL 3275)	3
INGL – Course on literature or academic or creative writing in English	3	INGL – Course in Literature or academic or creative writing in English	3
Free elective	3	Free elective	3

First Semester	Crs.	Second semester	Crs.
FILO (Philosophy)	3	FILO (Philosophy)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
INGL - Course in Literature or Academic or Creative Writing in English	3	INGL – Course in literature level 4000	3
Total	**18**	**Total**	**18**

Fourth year

First Semester	Crs.	Second semester	Crs.
INGL (elective course in English from the College of Humanities)	3	INGL (elective course in English from the College of Humanities)	3
Foreign Language I	3	Foreign Language II (the same language)	3
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
Free elective from the College of Humanities	3	Free elective	3
Free elective from the College of Humanities	3	Free elective	3
LITE (Comparative Literature)	3		
Total	**18**	**Total**	**15**

Total credits	**129**

BACHELOR IN ARTS WITH A CONENTRATION IN COMPARATIVE LITERATURE

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
LITE (course level 3000 or 4000)	3	LITE (course level 3000 or 4000)	3
		Free elective	3
Total	**15**	**Total**	**18**

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

Second year

First Semester	Crs.	Second semester	Crs.
LITE 3045 - Introduction to comparative studies in Literature	3	LITE (course level 3000 or 4000)	3
Foreign Language I	3	Foreign Language II (the same language)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
HIST (History)	3	HIST (History)	3

Free elective	3	Free elective	3
HART, MUSI o TEAT*	3	LITE (curso nivel 3000 o 4000)	3
Total	**18**	**Total**	**18**

*The student will take 3 crs. in HART, 3 crs.in MUSI y 3 crs. in EAT.

Third year

First Semester	**Crs.**	**Second semester**	**Crs.**
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
LITE 3101 – Literary Theory I	3	LITE 3102 - Literary Theory II	3
Foreign Language III (the same language)	3	Free elective from the College of Humanities	3
Free elective	3		
Total	**18**	**Total**	**15**

Fourth year

First Semester	**Crs.**	**Second semester**	**Crs.**
LITE (course level 4000 or 5000)	3	LITE (course level 4000 or 5000)	3
LITE (course level 4000 or 5000)	3	Free elective from the College of Humanities	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
HART, MUSI o TEAT*	3	Free elective	3
Free elective	3		
Total	**15**	**Total**	**12**

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

Total credits	**129**

BACHELOR IN ARTS WITH A MAJOR IN FOREIGN LANGUAGES

Areas of emphasis in two languages (to select from: French, Italian, Portuguese, German or Chinese)

(LP = principal language; LS = secondary language)

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
Intensive course I (primary language)	3	Intensive course II (primary language)	3
Total	15	Total	15

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

Second year

First Semester	Crs.	Second semester	Crs.
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Free elective	3	HART, MUSI o TEAT*	3
Intermediate course (primary language)	3	Course on Written Skills (primary language)	3
Course on oral expression (primary language)	3	Intenvise Course II (secondary language)	3
Intensive course I (secondary language)	3		
Total	18	Total	15

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

Third year

First Semester	Crs.	Second semester	Crs.
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Free elective	3	HART, MUSI o TEAT*	3
Advanced course (primary language)	3	Advanced course (primary language)	3
Intermediate course (secondary language)	3	Oral expression course (secondary language)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
Total	18	Total	18

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
Oral expression Course (secondary language)	3	Free elective	3
Free elective	3	Free elective	3
Total	15	Total	15

Total credits	129

Area of emphasis: French and Francophone Studies

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3

ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
FRAN 3031 - Intesive French I	3	FRAN 3032 - Intensive French II	3
Total	15	Total	15

*The student will take 3 crs. in HART, 3 crs. in MUSI y 3 crs. inTEAT

Second year

First Semester	Crs.	Second semester	Crs.
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
FRAN 3035 - Intermediate French for specialists	3	FRAN 4008 – Compendium of Advanced French Grammar and Composition	3
FRAN 3060 – Compendium of diction and phonetic	3	FRAN (elective in French)	3
Free elective	3	Free elective	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
FRAN (elective in French)	3	FRAN (elective in French Literature)	3
FRAN (elective in French)	3	FRAN (advanced elective in French)	3
LITE (Comparative Literature)	3	Free elective	3
Total	18	Total	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 (elective in advanced French)	3	FRAN (elective in advanced French)	3
Free elective	3	Free elective	3
Free elective	3		
Total	15	Total	12

Total credits	129

Area of emphasis: Italian Studies

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3

HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
ITAL 3001 – Intensive Italian I	3	ITAL 3002 - Intensive Italian II	3
Total	15	Total	15

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

Second year

First Semester	Crs.	Second semester	Crs.
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
ITAL 3035 – Intermediate Italian for specialists	3	ITAL 4017 – Compendium of Advanced Italian grammar and composition	3
ITAL 4016 – Oral expression techniques	3	ITAL (elective in Italian)	3
Free elective	3	Free elective	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	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	18	Total	18

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

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	15	Total	12

Total credits	129

Area of emphasis: Lusophone Studies

First year

First Semester	**Crs.**	**Second semester**	**Crs.**
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3

INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART, MUSI o TEAT*	3
PORT 3031 - Intensive Portuguese I	3	PORT 3032 - Intensive Portuguese II	3
Total	15	Total	15

*The student will take 3 crs. in HART, 3 crs. in MUSI y 3 crs. in EAT.

Second year

First Semester	Crs.	Second semester	Crs.
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
PORT 3033 - Intensive Portuguese III	3	PORT 4005 – Advanced grammar and composition	3
PORT 4016 - Oral expression techniques in Portuguese	3	PORT (elective in Portuguese)	3
Free elective	3	Free elective	3
Total	18	Total	18

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

Third year

First Semester	Crs.	Second semester	Crs.
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	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	18	Total	18

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

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	15	Total	12

BACHELOR IN ARTS WITH A MAJOR IN MUSIC

First year

First Semester	**Crs.**	**Second semester**	**Crs.**

ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART o 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	15	Total	16

*The student will take 3 crs. in HART y 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 o 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 o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
HART o TEAT	3	MUSI 4201 – Chamber Music	1
Total	17	Total	15

Third yearF

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 vocal IV	1	MUSI 4133 – Instrumental technique V o MUSI 4151 - Vocal technique V	1
MUSI 4195 - Armonía cromática	3	MUSI 4105 – Modal Counterpoint or MUSI 4115 - Tonal Counterpoint	2
MUSI 4035 - Music in the Middle Ages and the Renaissance	3	MUSI 4015 - Music in the Baroque and Classical Periods	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
Foreign Language I	3	Foreign Language II (the same language)	3
MUSI 4201- Chamber Music	1	MUSI 4201 - Chamber Music	1
Total	17	Total	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 - Study of Music in the 20th Century	3
CISO 3121 - Introduction to Social	3	CISO 3122 - Introduction to Social	3

Sciences I		Sciences II	
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
MUSI 4201 - Chamber Music	1	Free elective (Suggested Musical Ensemble)	1
MUSI 4134 – Instrumental Technique instrumental VI or MUSI 4152 - Vocal Technique VI	1		
Total	17	Total	16

Total credits	129

BACHELOR IN ARTS WITH A MAJOR IN DRAMA

Area of emphasis: General

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	TEAT 3025 - Theater Appreciation, TEAT 3145 - Overview of Puerto Rican Theater, or Another Theoretical Course Including the Analysis of Dramatic Texts.	3
TEAT 3101 - History of Theater I	3	TEAT 3102 - History of Theater II	3
		HART o MUSI*	3
Total	15	Total	18

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

Second year

First Semester	Crs.	Second semester	Crs.
One course to be selected from: TEAT 3161 - Pantomime I, TEAT 3035 - Body Movement or TEAT 3301 – Contemporary Dance for actors/actress	3	TEAT (elective in Performing Arts)	3
TEAT 3011 – Acting I	3	TEAT 3031 - Voice and Diction I	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
One course to be selected from: TEAT	3	One course to be selected from: TEAT	3

4201 - Lighting I, TEAT 4131 - Set Design I or TEAT 4101 - Costume Design		4201 - Stage Lighting I, TEAT 4131 - Set Design I or TEAT 4101 – Costume Design	
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
Foreign Language I	3	Foreign Language II (the same language)	3
LITE (Comparative Literature)	3	HART o MUSI*	3
Free elective	3	Free elective	3
Total	15	Total	15

Fourth year

First Semester	Crs.	Second semester	Crs.
TEAT (elective in Performing Arts)	3	TEAT 4211 – Stage Direction I	3
HIST (History)	3	HIST (History)	3
TEAT (elective in Performing Arts)	3	TEAT (elective in Performing Arts)	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	15	Total	15

Total credits	129

Area of emphasis: Acting

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	HART o MUSI*	3
TEAT 3025 - Theater Appreciation, TEAT 3145 – Overview of Puerto Rican Theater or another theoretical course whose syllabus includes the analysis of dramatic texts.	3	TEAT 3161 – Pantomine I, TEAT 3035 - Body Movement or TEAT 3301 – Contemporary Dance for Actors I	3
		TEAT 3031 – Voice and diction I	3
Total	15	Total	18

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

Second year

First Semester	Crs.	Second semester	Crs.
TEAT 3101 - History of Theater I	3	TEAT 3102 - History of Theater II	3
TEAT 3011 – Acting I	3	TEAT 3012 – Acting II	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3

CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
Total	15	Total	15

Third year

First Semester	Crs.	Second semester	Crs.
TEAT 4201 – Lighting I, TEAT 4131 - Set Design I o TEAT 4101 - Costume Design I	3	TEAT 4201 Lighting I, TEAT 4131 - Set Design I o TEAT 4101 - Costume Design I	3
TEAT 4031 – Acting III	3	TEAT (elective in acting)	3
Foreign Language I	3	Foreign Language II (the same language)	3
Free elective	3	Free elective	3
FILO (Philosophy)	3	FILO (Philosophy)	3
HART o MUSI*	3		
Total	18	Total	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 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
TEAT (elective in Acting)	3		
Total	18	Total	15

Total credits	129

Area of Emphasis: Theater Design and Techniques

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	TEAT 3025 – Performing Arts Appreciation, TEAT 3145 - Panorama of Puerto Rican Theatre or another theoretical course whose syllabus includes the analysis of dramatic texts	3
TEAT 3101 - History of Theater I	3	TEAT 3102 - History of Theater II	3
		HART o MUSI*	3
Total	15	Total	18

*The student will take 3 crs. in HART y 3 crs. inMUSI.

Second year

First Semester	Crs.	Second semester	Crs.
One course to be selected from: TEAT 3031 - Voice and diction I, TEAT 3035 - Body movement, TEAT 3161 - Pantomime I o TEAT 3301 – Contemporary Dance for actors/actress I	3	TEAT 4201 - Lighting I	3
TEAT 3011 - Acting I	3	TEAT (elective in design and theatrical technique)	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
TEAT 4131 - Set Design I	3	TEAT 4101 - Costume Design I	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
Foreign Language I	3	Foreign Language II (the same language)	3
LITE (Comparative Literature)	3	HART o MUSI*	3
Free elective	3	Free elective	3
Total	15	Total	15

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

Fourth year

First Semester	Crs.	Second semester	Crs.
TEAT (elective in design and theatrical technique)	3	TEAT 4211 - Stage Directing I	3
HIST (History)	3	HIST (History)	3
TEAT 4102 - Costume Design II, TEAT 4132 - Set Design II o TEAT 4202 - Lighting II	3	TEAT 4102 - Costume Design II, TEAT 4132 - Set Design II o TEAT 4202 - Lighting II	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	15	Total	15

Total credits	129

Area of emphasis: History, Literature and Dramatic & Theory of Drama

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3

HUMA (General Studies)	3	HUMA (General Studies)	3
ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3	TEAT 3025 - Appreciation of Theatre or TEAT 3145 – Overview of Puerto Rican Theatre, or another theoretical course whose syllabus includes the analysis of dramatic texts	3
TEAT 3101 - History of Theater I	3	TEAT 3102 - History of Theater II	3
		HART o MUSI*	3
Total	15	Total	18

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

Second year

First Semester	Crs.	Second semester	Crs.
One course to be selected from: TEAT 3161 - Pantomime I, TEAT 3035 – Body movement or TEAT 3301 – Contemporary Dance for actors I	3	TEAT (elective in history and theory of drama)	3
TEAT 3011 - Acting I	3	TEAT 3031 - Voice and diction I	3
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
One course to be selected from: TEAT 4201 - Lighting I, TEAT 4131 - Set Design I o TEAT 4101 - Costume Design I	3	One course to be selected from: TEAT 4201 - Lighting I, TEAT 4131 - Set Design I o TEAT 4101 Costume Design I	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
Foreign Language I	3	Foreign Language II (the same language)	3
LITE (Comparative Literature)	3	HART o MUSI*	3
Free elective	3	Free elective	3
Total	15	Total	15

*The student will take 3 crs. in HART y 3 crs. inMUSI.

Fourth year

First Semester	Crs.	Second semester	Crs.
TEAT (elective in history and theory of drama)	3	TEAT (elective in history and theory of drama)	3

HIST (History)	3	HIST (History)	3
One course to be selected from: TEAT 4005 - Theory of Drama or TEAT 4006 – Theory and practice of Theatre Criticism	3	TEAT 4211 - Stage Directing I	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	15	Total	15

Total credits	129

BACHELOR IN ARTS WITH MAJOR IN INTERDISCIPLINARY STUDIES

Area of emphasis: Creative Writing

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
HART, MUSI o TEAT*	3	ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3
Total	18	Total	18

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

Second year

First Semester	Crs.	Second semester	Crs.
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
ESIN 3003 - Foundations of Interdisciplinary Studies	3	ESIN 4003 - General practice of creative writing	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
Foreign Language I	3	Foreign Language II (the same language)	3
HIST (History)	3	HIST (History)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
LITE (Comparative Literature)	3	Free elective from the College of Humanities	3
ESIN 3403 - Civic Meaning and Ethics	3	** Directed selection in Writing	3

Free elective from the College of Humanities	3	** Directed selection in Writing	3
** Directed selection in Writing	3	** Directed selection in General	3
** Directed selection in Writing	3		
Total	18	Total	15

*The student will take 3 crs. in HART, 3 crs. in MUSI y 3 crs. in TEAT.
** 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 of Integration of Interdisciplinary Studies	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	12	Total	12

Total credits	129

Area of emphasis: Film and Audiovisual Studies

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
HART, MUSI o TEAT*	3	ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3
Total	18	Total	18

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

Second year

First Semester	Crs.	Second semester	Crs.
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
ESIN 3003 - Foundations of Interdisciplinary Studies	3	ESIN 4187 - Film Theory and Criticism	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
Foreign Language I	3	Foreign Language II (the same language)	3
HIST (History)	3	HIST (History)	3
FILO (Philosophy)	3	FILO (Philosophy)	3

First Semester	Crs.	Second semester	Crs.
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
LITE (Comparative Literature)	3	Free elective from the College of Humanities	3
ESIN 3403 - Civic Meaning and Ethics	3	**Directed selection	3
Free elective from the College of Humanities	3	**Directed selection	3
**Directed selection	3	**Directed selection	3
**Directed selection	3		
Total	18	Total	15

*The student will take 3 crs. in HART, 3 crs. in MUSI y 3 crs. in TEAT.
** See the lists of Directed Selection courses on the reverse side 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 of Integration of Interdisciplinary Studies	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	12	Total	12

Total credits	129

Area of emphasis: Pre-Law Studies

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3
HART, MUSI o TEAT*	3	ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3
Total	18	Total	18

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

Second year

First Semester	Crs.	Second semester	Crs.
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
ESIN 3003 - Foundations of	3	ESIN 3401 - Foundations of Law	3

First Semester	Crs.	Second semester	Crs.
Interdisciplinary Studies			
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
Foreign Language I	3	Foreign Language II (the same language)	3
HIST (History)	3	HIST (History)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
LITE (Comparative Literature)	3	Free elective from the College of Humanities	3
ESIN 3403 - Civic Meaning and Ethics	3	**Directed selection in Social Sciences	3
Free elective from the College of Humanities	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	18	Total	15

*The student will take 3 crs. in HART, 3 crs. in MUSI y 3 crs. in TEAT.
** See the lists of Directed Selection courses in Social Sciences and Directed Selection in general available in the Pre-Law Studies section of the PREI website

Fourth year

First Semester	Crs.	Second semester	Crs.
***ESIN 4395 - Interdisciplinary Internship	3	ESIN 4090 - Seminar of Integration of Interdisciplinary Studies	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	12	Total	12

*** The student may choose to take ESIN 4395 for their internship in the private or nonprofit sector, or take ESIN 4012 – Legal Internship I and ESIN 4013 – Legal Internship II at the UPR School of Law. Both courses are required for this option, with ESIN 4012 serving as a substitute for ESIN 4395 and ESIN 4013 counting as the Directed Selection course.

Total credits	129

Area of emphasis: Independent Studies

First year

First Semester	Crs.	Second semester	Crs.
ESPA according to level (General Education)	3	ESPA according to level (General Education)	3
INGL according to level (General Education)	3	INGL according to level (General Education)	3
HUMA (General Studies)	3	HUMA (General Studies)	3
CIBI o CIFI (General Studies)	3	CIBI o CIFI (General Studies)	3
CISO 3121 - Introduction to Social Sciences I	3	CISO 3122 - Introduction to Social Sciences II	3

HART, MUSI o TEAT*	3	ESGE 3008 - Mathematical Logical Reasoning and Quantitative Analysis	3
Total	18	Total	18

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

Second year

First Semester	Crs.	Second semester	Crs.
ESPA (Hispanic Studies)	3	ESPA (Hispanic Studies)	3
ESIN 3003 - Foundations of Interdisciplinary Studies	3	ESIN 4401 – Research Seminar in the Humanities	3
INGL (Dept. English. College of Humanities)	3	INGL (Dept. English. College of Humanities)	3
Foreign Language I	3	Foreign Language II (the same language)	3
HIST (History)	3	HIST (History)	3
FILO (Philosophy)	3	FILO (Philosophy)	3
Total	18	Total	18

Third year

First Semester	Crs.	Second semester	Crs.
HART, MUSI o TEAT*	3	HART, MUSI o TEAT*	3
LITE (Comparative Literature)	3	Free elective from the College of Humanities	3
ESIN 3403 - Civic Meaning and Ethics	3	Required course as approved in the proposal	3
Free elective of the College	3	Required course as approved in the proposal	3
Required course as approved in the proposal	3	Directed selection course as approved in the proposal	3
Required course as approved in the proposal	3		
Total	18	Total	15

Fourth year

First Semester	Crs.	Second semester	Crs.
ESIN 4395 - Interdisciplinary Internship	3	ESIN 4090 - Seminar of Integration of Interdisciplinary Studies	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Free elective	3	Free elective	3
Total	12	Total	12

Total credits	129

TEACHING FACULTY AND ADMINISTRATIVE STAFF

Faculty Directory

1. Acevedo Lucio, Carmen; M.N., Universidad de Cincinnati, 1978; Catedrática.
2. Albuyeh, Ann; Ph.D., University of WisWITHsin-Madison, 1985; Catedrática.
3. Alemán Iglesias, Javier; Ph.D., Universidad Interamericana de Puerto Rico, 2012.
4. Alonso Rivera, Ernesto; Ph.D., Catholic University of America, 2002, Catedrático.
5. Álvarez González, Jorge; JD, Universidad de Puerto Rico-Río Piedras, 2006.
6. Alicea Rodríguez, Dennis; Ph.D., Brown University, 1987, Catedrático Auxiliar.
7. Álvarez Nieves, Alejandro; Ph.D., Universidad de Salamanca, 2013, Catedrático Auxiliar.
8. Álvarez Santana, Luis M.; M.A., Indiana University, 1971; Catedrático.
9. Andersen, Sven; Ph.D., University of Florida, 2011; Catedrático Asociado.
10. Aponte González, Mila.; M.A., New York University, 2004.
11. Auerbach, David A.; Ph.D., City University of New York, 1993; Catedrático.
12. Ayala Santiago, Mario; Ph.D., Universidad de Puerto Rico-Río Piedras, 2010, Auxiliar de Investigación II.
13. Baerga Santini, María del C.; Ph.D., State University of New York, 1997; Catedrática.
14. Báez Rivera, Emilio R; Ph.D., Universidad de Sevilla, 2005; Catedrático.
15. Baibeche, Abderramane; Ph.D., Université Sorbonne-Paris III, 1998; Catedrático.
16. Barnes Sloan, H. J.; M.A., Universidad de Puerto Rico-Río Piedras, 2004.
17. Baumann Rivera, Pierre D.; Ph.D., City University of New York, 2008; Catedrático Asociado.
18. Bernabe Riefkohl, Rafael; Ph.D., State University of New York, 1989; Investigador.
19. Bofill Calero, Sylvia; M.A., Columbia University, 2006, Catedrática Asociada.
20. Bonilla Nieves, Amexis; J.D., Universidad Interamericana, 2006.
21. Bosch Irizarry, Agnes M.; Ph.D., Université Sorbonne Nouvelle, 2006, Catedrática.
22. Bravo López, Laura; Ph.D., Universidad Autónoma de Madrid, 2003; Catedrática.
23. Caamaño, Josué, M.A., Universidad de Puerto Rico-Río Piedras, 2006.
24. Cabrer Montalvo, Carlos R.; Ph.D., Universidad de Londres, 2000; Catedrático Asociado.
25. Cabrera Salcedo, Lizette; Ph.D., Universidad de Puerto Rico-Río Piedras, 2005.
26. Cabrera Salcedo, Sunny; Ph.D., University of Massachusetts, 1999, Catedrática.
27. Cardona Colom, Sofía I.; Ph.D., University of Massachusetts, 1988; Catedrática.
28. Cardona Morales, Cezanne; M.A., Universidad de Puerto Rico-Río Piedras, 2012.
29. Cardona Ortiz, Maritza; M.A., Universidad de Puerto Rico-Río Piedras, 2012.
30. Castro Ferrer, María Inés; Ph.D., Universidad de Puerto Rico-Río Piedras, 2002; Catedrática.
31. Cintrón Moscoso, Carola, M.FA., School of Visual Arts, New York, 2004.
32. Cintrón Ortiz, Lynette; M.A., Universidad de Puerto Rico-Río Piedras, 2008.
33. Climent Palmer, Juan; M.A., Escuela Internacional de Posgrado, Granada, 2018.
34. Collazo Rivera, María; Ph.D., Universidad de Puerto Rico-Río Piedras, 2010.
35. Collins Klobah, Loretta K.; Ph.D., University of Iowa, 1999; Catedrática.
36. Colón Flores, Jesús, BM, WITHservatorio de Música de Puerto Rico, 2021.
37. Colón Pérez, Dialitza; Ph.D., Universidad Autónoma de Barcelona, 2012, Catedrática Auxiliar.
38. Colón Rolón, Félix, M.FA., University of California-Irvine, 2022.
39. Colón Vázquez, Hazel; M.A., Universidad de Puerto Rico, 2015.
40. WITHlan, James P.; Ph.D., University of California, 1999; Catedrático.
41. Corchado González, Nelson M.; M.N., Michigan State University, 2003; Profesor Adjunto.
42. Corchado Robles, Brenda L.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2010.
43. Cosme Rosario, Windy; M.A., Universidad de Puerto Rico, 2014.
44. Cruz Corchado, Raymond; Ph.D., Universitat Politècnica de València, 2022.
45. D'Agostino, Giovanni R.; Ph.D., University of Toronto, 2000; Catedrático.

46. Dávila Del Valle, Óscar, M.A., Universidad de Puerto Rico-Río Piedras, 1986.
47. De Choudens Martínez, Indira; Ph.D., Universidad Complutense, 2023.
48. De Freitas Gomides, Camilo; Ph.D., Tulane University, 2003; Catedrático.
49. De Jesús Carrasquillo, José Daniel, B.M., WITHservatorio de Música de Puerto Rico, 1992.
50. De Pablos Escalante, Raúl E.; Ph.D., Universidad Complutense, 2012; Catedrático.
51. Deng, Meili; Ph.D., Universidad de Puerto Rico-Río Piedras, 2007, Catedrática Auxiliar.
52. Díaz Calcaño, Tamara; Ph.D., Universidad Complutense de Madrid, 2019.
53. Díaz Hiraldo, Nildamarie; M.A., University of Phoenix, 2011.
54. Dupey Heding, Robert John; Ph.D., Universidad de Puerto Rico-Río Piedras, 2006; Catedrático.
55. Duprey Colón, Jacqueline; M.FA., Yale University, 1997; Catedrática.
56. Expósito Sánchez, Daniel; Ph.D., Universidad de Sevilla, 2015; Catedrático Asociado.
57. Faraclas Photakis, Nicholas G.; Ph.D., University of California, 1989; Catedrático.
58. Feliú Matilla, Fernando Alfonso; Ph.D., University of California, 1994; Catedrático.
59. Ferrer Higueras, Bruno; Ph.D., Universidad de Barcelona, 2003; Catedrático.
60. Franco-Müller, Israel; Ph.D., Universidad Complutense de Madrid, 2021; Catedrático Asociado.
61. García González, Sylma; Ph.D., Universidad de Puerto Rico-Río Piedras, 2009.
62. García López, Carola; Ph.D., Centro de Estudios Avanzados de Puerto Rico y el Caribe, 2006; Profesora Adjunta.
63. García Nevares, Luis A; Ph.D., Universidad de Salamanca, 2016; Catedrático Asociado.
64. García Rivera, Edgar M.; M.FA., University of California-Los Angeles (UCLA), 1998; Catedrático Asociado.
65. García Rivera, Martín; M.FA., Pratt Institute, 1988; Catedrático Asociado.
66. Gaspar WITHcepción, Jessica; Ph.D., University of Madison-WisWITHsin, 2005; Catedrática.
67. Ghigliotty Adames, María T.; B.A., Universidad de Puerto Rico-Río Piedras, 1982.
68. Ghillebaert, Francoise; Ph.D., University of Texas-Austin, 1996; Catedrática.
69. González Pérez, Víctor; M.A., Universidad de Puerto Rico-Río Piedras; 2021.
70. González Vélez, Mirerza; Ph.D., University of Iowa, 2002; Catedrática.
71. Grant, Norman; Ph.D., Universidad de Puerto Rico-Río Piedras, 2020.
72. Guzzardo Tamargo, Rosa, PhD, Pennsylvania State University, 2012; Catedrática.
73. Heffelfinger Nieves, Cristal; Ph.D., Universidad de Puerto Rico-Río Piedras, 2019; Catedrática Auxiliar.
74. Helmer, Étienne; Ph.D., Université Paris I, 2004; Catedrático.
75. Hernández Sanabria, Ana T.; Universidad de Puerto Rico, 2016.
76. Hernández Torres CarminN.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1994; Catedrática.
77. Hsu, Peiyi; M.A., Cleveland State University, 2016.
78. Iguina Monrouzeau, José R.; EdD, Harvard University, 1993; Catedrático.
79. Jackson Martin, Rafael; Ph.D., Universidad Autónoma de Madrid, 1998, Catedrático.
80. Javier Rivera, María de Lourdes; Ph.D., Universidad de Salamanca, 2016.
81. Jiménez Martínez, Ingrid; Ph.D., Universidad de Sevilla, 2001; Catedrática.
82. Joseph Haynes, Marisol; Ph.D., Universidad de Puerto Rico-Río Piedras, 2019.
83. Juarbe Botella, Rosa M.; Ph.D., State University of New York, 1998.
84. Kuwabong Bolale, Dannabang; Ph.D., McMaster University, 1997; Catedrático.
85. Latorre Lagares, Elidio; Ph.D., Centro de Estudios Avanzados de Puerto Rico y el Caribe, 2009, Catedrático Auxiliar.
86. Lauzardo Ugarte, Aurora; Ph.D., Princeton University, 1990; Catedrática.
87. Lee Borges, José; Ph.D., Universidad de Puerto Rico-Río Piedras, 2012.
88. Lima de Jesús, Rosa L.; M.A., Arizona State University, 2001.
89. López Baralt, Luce; Ph.D., Harvard University, 1974; Catedrática, Profesora Emérita.

90. López Baralt, Mercedes; Ph.D., Cornell University, 1980; Catedrática, Profesora Emérita.
91. López Hernández, Zulimar; Artist Diploma, Ejecución de Voz, Mannes College, 2011.
92. López Jorge, Eric; Ph.D., Universidad de Puerto Rico-Río Piedras, 2019.
93. Lugo Acevedo, María L.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1995; Catedrática.
94. Lugo Beltrán, Dorian; Ph.D., Universidad de Puerto Rico-Río Piedras, 2007; Catedrático.
95. Luna Rodríguez, Noel; Ph.D., Princeton University, 2003; Catedrático.
96. Luzzi Traficante, Nicolás; Ph.D., Universidad Complutense de Madrid, 2015; Catedrático Asociado.
97. Luzzi Traficante, Marcelo; Ph.D., Universidad Autónoma Madrid, 2014.
98. MacLennan, Janet; Ph.D., Ohio University, 2000; Catedrática.
99. Mather, Patrick-André; Ph.D., University of Pittsburgh, 2000, Catedrático.
100. Mater O'Neill, Mari; Ph.D., School of Design, Northumbria University, 2014.
101. Milantchi Yassami, Setare; M.Phil., Yale University, 1982.
102. Millán Álvarez, Néstor; M.FA., Pratt Institute, 1988; Catedrático.
103. Morales Rolón, Joel; M.A., Universidad de Puerto Rico-Río Piedras, 2018.
104. Morell Marrero, Idalia; Ph.D., Universidad de Puerto Rico-Río Piedras, 2007.
105. Moreno Viqueira, Ileana; Ph.D., Columbia University, 2013.
106. Muñoz de Frontera, Nélida; Ph.D., New York University, 1987; Catedrática.
107. Narváez Córdova, María T.; Ph.D., Universidad de Puerto Rico-Río Piedras, 1988; Catedrática.
108. Natarajan, Nalini; Ph.D., AberdeinUniversity, 1984; Catedrática.
109. Náter Maldonado, Miguel A.; Ph.D., Universidad de Puerto Rico-Río Piedras, 2002; Catedrático.
110. Nevares Araujo, Daniel; Ph.D., University of Massachusetts-Amherst, 2018; Catedrático Auxiliar.
111. Ocasio Meléndez, Marcial; Ph.D., Michigan State University, 1988; Catedrático.
112. Ojeda Rosario, Marisol; M.A., University of Texas, 1988.
113. Ortiz López, Luis A.; Ph.D., University of New México, 1996; Catedrático.
114. Otero Garabis, Juan; Ph.D., Harvard University, 1998; Catedrático.
115. Otón Olivieri, Rosabel; B.A., Universidad de Puerto Rico-Río Piedras, 1983.
116. Pabón Ortega, Carlos; PhD., Massachusetts University, 1992; Catedrático.
117. Paes De Carvalho, Fernando; Ph.D., Universitat Politècnica de València, España, 2016; Catedrático.
118. Pagán Mattos, Marla; Ph.D., University of Pennsylvania, 2012; Catedrática Auxiliar.
119. Pateiro Mochila, Miguel; Ph.D., Universidade de Évora, 2021; Catedrático Auxiliar.
120. Pecho Crespo, Marcos; M.A., Universidad de Puerto Rico-Río Piedras, 2015.
121. Pérez Hernández, Marilú; Ph.D., Indiana University, 2002; Catedrática.
122. Pérez Marín, CarminI.; Ph.D., Harvard University, 1990; Catedrática.
123. Pérez Ortiz, Melanie A.; Ph.D., Stanford University, 1999; Catedrática.
124. Pérez Quiñones, Samuel N.; DMA, University of Michigan, 1979; Catedrático.
125. Philippe, Antoine; Ph.D., University of California, 2002; Catedrático.
126. Phillips, Pamela Faith; Ph.D., Washington University, 1997; Catedrática.
127. Piazza De la Luz, Ivonne; Ph.D., Universidad de Puerto Rico-Río Piedras, 2014; Catedrática Auxiliar.
128. Piñeiro Díaz, Efraín; M.A., Montclair State University, 1990.
129. Polhill, Marian; Ph.D., Cornell University, 2002, Catedrática.
130. Ponte Cobo, Nora Elsa; Ph.D., State University of New York, 2008; Catedrática.
131. Pujals Ramírez, Sandra; Ph.D., Georgetown University, 1999; Catedrática.
132. Quiñones Maldonado, Gabriel; Ph.D., Bircham International University, 2018.
133. Quintero Rivera, Mareia; Ph.D., Universidade de São Paulo, 2002; Catedrática.
134. Quintero, María; M.A., Universidad de Puerto Rico-Mayagüez, 2008.

135. Quinteros Meléndez, Alejandro; Ph.D., University of Plymouth, 2021; Catedrático.
136. Ramírez Nieves, Emmanuel; Ph.D., Harvard University, 2015.
137. Ramos Borges, Melisa; Ph.D., Universidad Complutense de Madrid, 2020.
138. Ramos, Francisco José; Ph.D., Universidad Complutense de Madrid, 1980; Catedrático.
139. Ramos Soler, Isabel; M.FA., Harvard University, 2001.
140. Reina Pérez, Pedro; Ph.D., Centro de Estudios Avanzados de Puerto Rico y el Caribe, 1998; Catedrático.
141. Ríos Camacho, Rubén; M.A., Woodwinds Southern Illinois University (SIU), 2021.
142. Rivera Belaval, José; M.A., Universidad de Puerto Rico-Río Piedras, 2020.
143. Rivera Casellas, Zaira O.; Ph.D., University of Massachusetts, 2003; Catedrática.
144. Rivera Castillo, Yolanda; Ph.D., Universidad de California, 1994; Catedrática.
145. Rivera Guzmán, Félix J.; D.MA., University of Miami, 1993; Catedrático.
146. Rivera Hernández, Roselina; M.A., Middlebury College, 2000.
147. Rivera Martínez, David; M.A., Cambridge College, 2004.
148. Rivera Ríos, Limari; Ph.D., Universidad de Puerto Rico-Río Piedras, 2016; Catedrática Auxiliar.
149. Rivera Ruiz, Álvaro; Ph.D., Centro de Estudios Avanzados de Puerto Rico y el Caribe, 2017.
150. Rivera Toro, Quintín; Ph.D., Universitat Politècnica de València, 2019.
151. Rivera, CarminH.; Ph.D., Northwestern University, 2001, Catedrática.
152. Rodríguez, Eduardo (Lalo); M.A., Université Paris, 1987; Catedrático Asociado.
153. Rodríguez WITHcepción, Isel; Ph.D., Arizona State University, 2010.
154. Rodríguez Guzmán, Felipe, M.A., Rutgers University, 2009.
155. Rodríguez Martínez, Gabriel; Ph.D., Universidad de Salamanca, 2018.
156. Rodulfo Rojas, Jorge; Ph.D., Universidad de Puerto Rico-Río Piedras, 2016; Catedrático Auxiliar.
157. Rojas Osorio, Carlos; Ph.D., Pontificia Universidad Javeriana, 1981; Profesor Emérito.
158. Rosario Camareno, Harry; M.A., New England WITHservatory of Music, 1977; Catedrático Asociado.
159. Rubio Sexto, Pablo; M.A., Buffalo University, 1983; Catedrático.
160. Ruiz Valarino, Carlos M.; M.FA., Rochester Institute of Technology, 1999; Catedrático Asociado.
161. Santiago Díaz, Irvin; Ed.D., Universidad Interamericana de Puerto Rico, 2018.
162. Santiago Hernández, Wilfredo.
163. Santory Jorge, Anayra; Indiana University-Bloomington, 1994, Catedrática.
164. Scheuer, Monique; M.A., Université des Antilles, 2020.
165. Sharp, Michael S.; Ph.D., University of WisWITHsin-Madison, 1985; Catedrático.
166. Sifres Fernández, Vincent; Ph.D., Universidad de Puerto Rico-Río Piedras, 2015.
167. Simounet Bey, Alma; Ph.D., Universidad Interamericana de Puerto Rico, 1987; Catedrática.
168. Solá García, César J.; Ph.D., University of Michigan, 1999; Catedrático.
169. Sorroche, Juan; B.A., University of Lausanne, 2000; Catedrático Asociado.
170. Sotomayor Velázquez, Celia; M.A., Musik und Kunst Privatuniversität Wien, 2011.
171. Speakes Díaz, Eugene; M.A., Universidad de Puerto Rico-Río Piedras, 2020.
172. Stanchich Machiavello, Maritza; Ph.D., University of California, 2003; Catedrática.
173. Stoyanova Mogilevskaia, Tinna; Ph.D., St. Petersburg University, 2003.
174. Swope, Richard A.; Ph.D., West Virginia University, 2001; Catedrático.
175. Torres Rivera, Yvette; M.A., Universidad de Puerto Rico-Río Piedras, 1977; Catedrática.
176. Trelles Hernández, Mercedes; Ph.D., Harvard University, 2002; Catedrática Asociada.
177. Ursulín Mopsus, Diana; M.A., Universidad de Puerto Rico-Río Piedras, 2008.
178. Vando Arroyo, Miguel Ángel; M.FA., New York University, 1998; Catedrático Asociado.

179. Vázquez Miranda, Viveca; M.A., New York University, 1983; Catedrática.
180. Vera Velázquez, Velissa; M.A., Middlebury College, 2006.
181. Vilar Piña, Ada M.; DML, Middlebury College, 1979.
182. Villanua Vega, María D.; Ph.D., Brown University, 2012; Catedrática Auxiliar.
183. Walicek Lindley, Don; Ph.D., Universidad de Puerto Rico-Río Piedras, 2009; Catedrático.
184. Ward, Margaret Charlotte; Ph.D., Harvard University, 1981; Catedrática.
185. Zambrana García, Rocío; New School for Social Research, 2010. Catedrática Auxiliar.
186. Zayas Collet, Yaritza; DMA, University of Illinois, 201
187. 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 major. 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 major. 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 major 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 authorization from the teacher.

Modality: Face-to-face

3 elective credits in Digital Art and

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 varnish and stencil, among other techniques. Creation of limited editions in black and white.

ARTE 3326 - Intaglio in Color
Three credits. Four and a half hours of workshop
(Student Choice)

y 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
Three credits. Four and a half hours of workshop, y 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: Major 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
y traditional procedures of sculpture. Introduction to 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 and assembly of moulds, 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 used in

the photography

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
major, 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
y black, 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.

The

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 major. 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
major 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 major credits
Modality: Face-to-face

Description: Workshop aimed at students of major 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 artistic work. Study of painting with emphasis on personal and professional development. Ongoing individual and group discussion 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 major 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 major. 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 major. 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 major 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
a 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
a 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-Juridical 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 female 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 o 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 major 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 major 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 major, 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 major 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 modem 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 sinymia, 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 Onertti, 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 major 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 lo: notation, formation rules, veritative tables; normal disjunctive shape and reduction of connectives; axiomatization; completeness, consistency, and decidability. Modality: P, H and L.
of

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.
the

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.
one

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 Authors representative of classicism texts, lectures and reports. the

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 film.
y literature. In particular, we will see to what extent the evolution of French-language cinema corresponds to the
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 a 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 major 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 major 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.

the

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 y 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.

Herself

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 historica.se 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 major 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.
Three credits. Two 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.
This course will 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 Dovstoyevsky, 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.

the
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
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 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 major and must be taken in the second year of studies. It is a requirement for students of the major 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 o counselor's permission, 6 credits in spoken English.
Theory and procedure of argumentation and debate. Practice in Argumentative Expression y 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, Walles, 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 Trecenato: 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 ceromatics: 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.

the

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 major, 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. Major 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). Major 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 major 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 major 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 major 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 major 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 major 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 major 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 major 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 major 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 major 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 Bartock. 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 major 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 major students from the College of Humanities or Music Education.

MUSI 4225 - Seminar on Form and Analysis
A credit. Prerequisite: Required for major 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) Correquisite: 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 (Correquisite: 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 major 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 major 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 y 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 major 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 major 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.

a the study of the works
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.
to

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
y 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.

HONORS 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:

- Provide a forum for the exchange of ideas between students and faculty from various disciplines.
- Offer individualized attention for the best intellectual development of the student.
- Encourage openness and interfaculty intellectual risk in the selection of curricular offerings.
- Encourage a vocation for independent study and research.
- Provide expertise for the development of competencies in rigorous research.
- 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 mwietht 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

Have completed at least one semester of undergraduate study with a regular program. (12 credits)

Have an academic average of 3.50 or higher at the time of applying for admission to the Program.

Fill out and submit an application for admission to the Program.

Submit two letters of recommendation.

Provide other evidence that the student wishes to provide or that the Board requests.

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. One or 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.

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

Webpage: https://www.uprrp.edu/afrotc
Tel. (787) 764-0000, ext. 85219;
Email address: timothy.olinger@upr.edu
Address: Ave. Barbosa 901 Río Piedras Puerto Rico
Administration
Recruiter Official : Capitán Timothy Olinger

History

The Department of Aerospace Studies was founded in August 1951 under the Office of the Dean of Students, following the implementation of an agreement 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 lasted four years, with the first two years being mandatory for physically qualified male students. In August 1960, the program became voluntary. In 1971, the Academic Senate transferred supervision of the department to the Office of the Dean of Academic Affairs. The four-year program was reestablished in August 1972. In August 1977, the Air Force authorized the training of female officers.

Recognitions and Accreditations

Degrees Awarded

The Department of Aerospace Studies, also known as the Air Force Reserve Officer Training Corps (ROTC), is a three- to four-year educational program focused on leadership and designed to give both men and women the opportunity to become officers in the Air Force while completing their bachelor's degree.

Student Services

Admissions Requirements

- Be an undergraduate student with a minimum of two to three and a half years remaining before graduation.
- Be a full-time student.
- Have a minimum overall GPA of 2.0 (2.5 for the accelerated program).
- Complete the admission process for the Air Force ROTC program.

For more information about the program, financial aid, and career opportunities as an Air Force officer, visit the Air Force ROTC offices.

Graduation Requirements

Students participating in the program must take a class, attend a lab, and engage in physical activities. Those who complete the program and graduate with a bachelor's degree will receive a commission as Second Lieutenants in the Air Force.

Academic Programs

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 this phase, students have no military commitment. The Professional course is limited to third- and fourth-year students who have completed the General course and met specific requirements established by the program. Students with two to three years remaining before graduation may participate in our accelerated program, which allows them to complete the General course in one year.

PROGRAM DESCRIPTION

Basic Courses	Credits
ESAE 3001-3002 - The Air Force Today	4
ESAE 3011-3012 - The development of Air Power	4

Advanced Courses	Credits
ESAE 4001-4002 - Management and Leadership in the Air Force	8
ESAE 4011-4012 - National Security Forces in Contemporary American Society"	8

TEACHING FACULTY AND ADMINISTRATIVE PERSONEL

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, Ohio, 2018.

Major Alvin M. Otero, Assistant Professor, Cadet Commander, and Education Officer; Industrial Management and Information Systems, University of Puerto Rico, Mayagüez, Puerto Rico, 2004; Systems Analysis, Naval Postgraduate School, California, 2009; Political Science, University of Houston, Texas, 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

Webpage: https://www.goarmy.com/careers-and-jobs/find-your-path/army-officers/rotc
Tel. , ext.
Email Address
Address: 901 Avenida Barbosa San Juan, Puerto Rico, 00923

Administration

Departamento Chair: LTC. Aaron Angell
Admissions Officer: Pedro de Jesús

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 major.

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

TEACHING FACULTY AND ADMINISTRATIVE PERSONNEL

Candelario, Richard; B.S., Universidad Interamericana de Puerto Rico-San Germán, 1992.
Chico, Félix; M.A., Universidad de Puerto Rico, 1982.
Clemente, José; MAJ. B.A., Universidad de Puerto Rico-Mayagüez, 1994.
Cole, Sheryl; B.A., University of Iowa, 1996.
Colón, Ray; B.A., Universidad Interamericana de Puerto Rico-Recinto Metropolitano, 1985.
De Jesús, Pedro; GS 11, M.A., University of Phoenix, 2002.
Hanes, Eric R.; LTC, M.A., William and Mary University, 2006.
Mercado, César; B.A, Universidad Interamericana de Puerto Rico-San Germán, 2006.
Mignucci, Omy; M.Ed., University of North Dakota, 1996.
Nesby, Fe María; M.A., Kansas State University, 1990.
Rivas, Luis; CPT. B.A., Universidad de Puerto Rico-Cayey, 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.l.) 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.l.) 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.
Physical Address
Plaza Universitaria Torre Sur Piso 5 Ave. Ponce de León Esquina Ave. Universidad Río Piedras, Puerto Rico

Phones
787-763-4122 787-763-5810 787-763-4240

Mailing Address
Division of Continuing Education and Professional Studies PO Box 23312 San Juan PR 00936-3312 Email: decep.rp@upr.edu

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
2. of continuous learning as an essential mechanism for personal and professional development conducive to their active participation in social and cultural development.
3. y the country's economic system, thus raising the individual and collective standard of living.
4. 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.
5. Collaborate with academic departments and/or faculties in offering academic programs leading to certifications or degrees for non-traditional students.
6. Provide continuing education activities regulated by laws applicable to the authorized
7. practice of certain professions, in accordance with the requirements established by examining boards and professional associations.
8. 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.
9. Develop academic projects through consortia and agreements between departments,
10. faculties and universities within and outside the UPR system, and public and private schools locally and internationally.
11. 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

12. UPR.
13. 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.deceprp@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.

LA IUPI
UPRRP