

Graduate Catalog

2021 - 2023



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Preamble:

The Río Piedras Campus of the University of Puerto Rico, through the Deanship for Graduate Studies and Research (DEGI) on the Campus (Certification No. 95 of the Academic Year 2019-2020, Academic Senate)¹ and the Dean's Office of Graduate Studies and Research (DEGI), aims to encourage and facilitate research and excellence academic students and faculty graduate programs. With this goal in mind, DEGI's Associate Dean for Academic Affairs, in collaboration with the colleges and Graduate Schools of the Campus, presents the Catalogue Graduated 2022-2023.

In the Dean's Office we make the greatest effort to corroborate and provide the update of the information, as documented in the Student Information System (SIE) of the Venue until October 18, 2023. The provisions of this Catalogue do not constitute an irrevocable contract between any student and the University of Puerto Rico. Rico, Río Piedras Campus. Likewise, no responsibility is assumed for information not updated, erroneous, or omitted from previous publications. All information contained in this Catalog is subject to change without notice by the authorities and relevant officials of the DEGI.

Students are responsible for reading and understanding policies and regulations academic, administrative, and disciplinary requirements, in addition to the general requirements for obtaining the degree to which they aspire from the moment they enroll in the University. They are also responsible for meeting the requirements of their Studies.

Associate Dean of Academic Affairs
Dean of Graduate Studies and Research

¹In the following link you can consult Certification No. 95 of the Academic Year 2019-2020:
<http://senado.uprrp.edu/wp-content/uploads/2020/05/CSA-95-2019-2020.pdf>

**University of Puerto Rico Río Piedras Campus
Dean's Office of Graduate Studies and Research**

Graduate Catalog



2022-2023

School of Architecture





Mailing Address: 17 Ave Universidad Ste. 1701 San Juan PR 00925-2537

Phone: (787) 764-0000, Ext. 87827 / 87823 / 87802

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<http://graduados.uprrp.edu/>

DEGREE: Master of Architecture - M.Arch 1.5

ACCREDITATIONS: *National Architectural Accrediting Board (NAAB)*

As part of the requirements toward a bachelor's degree to practice architecture, most state boards require a professional degree accredited by the *National Architectural Accrediting Board* (NAAB). The NAAB is the only agency authorized to accredit architecture programs in the United States of America and Canada. In 2014, the NAAB granted the School of Architecture the maximum period of eight years of accreditation. The accreditation model is based on the institution's values for decision-making, the ability to develop and provide post-secondary education within the context of its history and mission, the fundamental principles of academic freedom and respect for diversity of thought, teaching and methodology. These principles and practices have remained stable for the past 50 years.

Our Master of Architecture program route 1.5 consists of an undergraduate pre-professional degree and a graduate professional degree that, when obtained consecutively, constitutes an accredited professional education. However, the pre-professional degree alone is not recognised as an accredited qualification.

In 2020, the NAAB approved substantial changes to the Master of Architecture so that those interested in obtaining a professional degree in architecture, who come from high schools other than architecture, can opt for the M.Arch 3.5, a professional route to the degree in three and a half years. Likewise, he passed the M.Arch 1.5, a one-and-a-half-year route for applicants from high school degrees in pre-architecture.

TEACHERS:

Carola Ballester Descartes, Master's Degree in Planning, University of Puerto Rico, 2013; and Master's Degree in Landscape Architecture, Polytechnic University of Puerto Rico, 2010. Associate Dean. Landscape Architecture.

Blanquita Calzada Acosta, MArch, University of Puerto Rico, 1983. Coordinator of the Graduate Program, Licensed Architect. Design.

Joseph Coleman-Davis, MArch, Tulane University of New Orleans, Louisiana, 2004.

Design. **Luis Daza Duarte**, PhD, University of Puerto Rico, Mayagüez, 1996. Professor. Structures.

Anna L. Georas Santos, PhD, Complutense University, Madrid, 2015. Associate Professor, Licensed Architect. Design, Professional Internship Internship.

Mayra O. Jiménez Montano, PhD, University of Granada, 2016. Design, Design Research Methodologies.

Jorge L. Lizardi Pollock, PhD, University of Puerto Rico, 2002. Associate Professor. History and Theory, Urban Studies.

Brenda Martínez Quiñones, MArch, University of Puerto Rico, 2008, Instructor. Sustainability.

Pedro Muñiz Rivera, Ph.D. in Architecture, Virginia Polytechnic Institute State University 1985, Professor.

José Pagán Parés, Master's Degree in Design and Restoration of Architectural Structures, Polytechnic University of Catalonia, Barcelona, Spain, 2006. Master of Architecture, Illinois Institute of Technology, Crown Hall College of Architecture, Chicago, 2002. Instructor, Licensed Architect. Design and Structures.

Luis Pico Lacomba, MArch, University of Puerto Rico, 1981; MBA, University of Phoenix, 1996. Project Management Professional Certification, Project Management Institute, 2001. Instructor, Licensed Architect. Professional practice.

Juan C. Penabad Sánchez, MArch, Yale University, 1989. Assistant Professor, Licensed Architect. Design and Technology.

Inés Penabad Peña, MArch, University of Puerto Rico, 2018. Instructor. Architectural design, representation and visualization.

Robin Planas Casado, MArch, University of Puerto Rico at Río Piedras, 2007, Associate Professor. Licensed Architect.

Omayra Rivera Crespo, PhD, La Salle School of Architecture, Barcelona, 2011. Associate Professor. Participatory design.

Ernesto Rodríguez Matos, MArch, Massachusetts Institute of Technology, 1996. Coordinator of the Bachelor's Program in Environmental Design. Design.

Osvaldo J. Santiago Rodríguez, MArch, University of Puerto Rico at Río Piedras, 2020, Instructor.

Rafael Vargas Correa, MArch, University of Puerto Rico at Río Piedras 2015, Associate Professor.

ADMISSION REQUIREMENTS: m.Arch 1.5

General Requirements of the Río Piedras Campus

http://graduados.uprrp.edu/index.php?option=com_content&view=article&id=105&Itemid=360&lang=en

Specific Admission Requirements:

1. Possess a Bachelor's Degree in Environmental Design (BDA) from the School of Architecture of the University of Puerto Rico or its equivalent from an accredited teaching center, as determined by the Graduate Program Committee.
2. Minimum general academic index of 3.00 points, on a scale of 4.00.
3. Minimum academic index of 3.00 points, on a scale of 4.00, in the sequence of the core courses of Baccalaureate Design.
4. For the validation of courses from international institutions, candidates must contact the Graduate Program Office. To coordinate the sending of the official description and transcript of the courses from the institution of origin, all documents must be sent to: School of Architecture 11 Ave. Universidad Ste. 1101 San Juan PR 00925-2531
5. Proficiency in the Spanish language.
6. Application for Admission to Graduate Studies in electronic format.
7. Statement of purpose (600-800 words). This statement should be written in the form of an essay, where the candidate exposes his/her interests related to architecture, motivation, and his/her academic and professional goals.
8. Two (2) letters of recommendation for Graduate Studies from people who know about your academic and professional performance. Applicants with a Bachelor's Degree in Environmental Design from UPR are exempt.
9. Two (2) official copies of credit transcripts. They should be sent to the following mailing address: School of Architecture 11 Ave. University Ste. 1101 San Juan, PR 00925-2531
10. Interview process. Applicants with a Bachelor's Degree in Environmental Design are exempt from the interview process with the Graduate Committee.
11. Portfolio of design and research papers. You can hand it in at the School of Architecture. An 8 1/2" x 11" portfolio with at least two of the best projects of each design year at the rate of one project per semester and must evidence the production and creative development of the four years of BDA. If the portfolio has a link to a web page or portal, this digital format replaces the print version and can be included along with the statement of purpose.
12. Students who have graduated from the Bachelor's Degree in Environmental Design of the UPR who have an average greater than or equal to 3.70 are exempt from the delivery of the portfolio.

13. Students from other universities or educational centers may be asked to take additional courses.

GRADUATION REQUIREMENTS:

1. Have an overall index of 3.00 points in the courses leading to the degree.
2. For full-time M.Arch 1.5 students, a period of no more than four (4) years from the date of admission will be set for them to comply with all the requirements of the degree, including the Integrated Final Degree Project (PIFC) or the defense and delivery of the Thesis, if applicable.
3. For part-time M.Arch 1.5 students, the deadline for fulfilling all degree requirements will be one additional year, i.e., five (5) years.
4. The student is responsible for depositing the final document of his/her thesis or Final Degree Project in the Institutional Repository of the UPR, <https://repositorio.upr.edu>, within a maximum period of one month after the thesis defense or PIFC. It will be optional at *University Microfilms International's Dissertations & Theses Global*.

PROGRAM OF STUDY:

Program Requirements	Credits
ARQU 6336 Architectural Design VI: Advanced Design Laboratory/Thesis	5
ARQU 6337 Architectural Design VII: Integrated Final Project/Thesis	5
ARQU 6328 Applied Structural Design	3
ARQU 6431 Research Seminar	2
ARQU 6432 Publication Seminar	1
ARQU 6425 Professional Experience Internship	3
ARQU 6514 Technology IV: Energy Systems	3
ARQU 6383 Professional Practice I – Design Project	3
ARQU 6384 Professional Practice II: Design Firm	3
Elective	9
Total Credits	37

COURSE DESCRIPTION:

ARQU 6336 Architectural Design VI: Advanced Design Laboratory

Five credits. Twelve hours of workshop per week.

Prerequisite: ARQU 6335 Integrated course to the Research Seminar. It is an interdisciplinary and participatory connection for the broad study of the city. By questioning the variables that affect the city, the critical capacity and social responsibility of the student in the face of the demands of a society with broad and diverse problems is fostered. Conditions at different scales, linked to the territory, the city, the block and the building: flows, functions, forms of occupation and habitability, services, the socio-economic/cultural reality, layers of history, operational and regulatory requirements will give way to an investigation that recognizes the connections or disconnections of the city. Students can work individually or in groups to propose design solutions that respond to improving the city through architecture. It concludes with the preliminary proposal to be developed in the course of the integrated end-of-degree project or the individual thesis project. Face-to-face, hybrid and online course.

ARQU 6337 Architectural Design VII: Integrated Final Project/Thesis

Five credits. Twelve hours of workshop per week Prerequisite: ARQU 6336 Corerequisite: ARQU 6432, ARQU 6324 Master's degree closing course. The student must develop their architectural project in an integrated way to expose the set of knowledge and skills acquired during the degree. It is based on the theoretical framework, analysis and previous studies on aspects related to the territory, the programme or the urban spatial solutions carried out in the previous course. It synthesizes, from a comprehensive and complex perspective of architecture, the different humanistic and technical disciplines involved in the drafting of a professional architectural project. The operational sequences are defined, without losing the conceptual argument of the initial design, as well as the environmental control systems (HVAC/Electrical) and the tectonics of the building, through the design of construction details. The final product is of substantial complexity, developed with poetry, depth, and definition to demonstrate that the student has the merits to be considered a fellow architect Face-to-face, hybrid, and online course.

ARQU 6328 Applied Structural Design

Three credits. Three hours of lecture a week.

Course focused on structural design for architects. Architectural precedents will be studied for the integration of the structural system into its architecture. In such cases, the structure acquires meaning through its visual, aesthetic and tectonic materialization, not restricted to its support function. Students will be introduced to the process of structural analysis using three-dimensional structural modeling (study of the mechanical properties of the material, advantages and disadvantages of its application, analysis and design in different types of loads, design methods and its application in real construction projects. Emphasis will be placed on the use of technical vocabulary and the application of minimum requirements from building codes. Face-to-face, hybrid and online course.

ARQU 6431 Research Seminar

Two credits. Two hours of seminar per week Prerequisite: ARQU 6145 Corerequisite: ARQU 6336 The course exposes the student to the use of research methodologies appropriate for advanced studies, particularly those related to the discipline of architecture. In it, research skills and competencies are applied so that the student defines a problem, carries out a theoretical reflection and designs the research method relevant to the problem, selecting and using tools that allow them to rigorously develop research based on the search for bibliographic resources, as well as the collection, analysis and evaluation of data. The course is closely related to the Design Research Laboratory to contribute to the development of methodologies that allow the scientific study of the contexts of architectural intervention. In addition, the student is exposed to workshops and seminars to support them, carried out by external resources, to help in the understanding of concrete and practical aspects of architecture with those of theory. Face-to-face, hybrid and online course.

ARQU 6432 Publication Seminar

A credit. One hour of seminar per week.

Prerequisite: ARQU 6431 Correct: ARQU 6337 The course exposes the student to a practical workshop for the design of the document (written and graphic) of the integrated final degree project (PIFC). In it, the student designs the PIFC document, applying the skills and competencies in writing techniques and editorial design. In addition, it assists the student and provides the tools for an effective oral presentation that emphasizes the virtues of the project. The course is closely related to the Research Seminar course and is a support course for the Design workshop of the Final Degree Project or the Thesis Project. The student is exposed to support workshops and seminars, conducted by external resources. Face-to-face, hybrid and online course.

ARQU 6425 Professional Experience Internship (iXP)

Three credits. Three hours of lecture per week Prerequisites: ARQU 6334. Admission to the graduate program (for students coming from the environmental design baccalaureate or equivalent baccalaureates) The Professional Experience Internship (iXP) course exposes the student to professional experience, working in a firm, organization, or agency to perform tasks pertinent to architecture. Meets Path to *Licensure requirements* as mandated by the local Department of State and the *National Council of Architectural Registration Boards (NCARB)*; the support services of the College of Architects and Landscape Architects of Puerto Rico (CAAPPR); and general aspects of the professional practice of architecture from multiple perspectives. The internship has three components: 1. Professional Experience Internship; 2. Community Service; 3. Academic work. Face-to-face, hybrid and online course. This course will be offered in face-to-face, hybrid and online modalities.

ARQU 6514 Technology IV: Energy Systems

Three credits. Three hours of lecture a week.

Prerequisite: ARQU 6513 The course exposes the student to the study of electrical energy systems and to specific topics of environmental control in buildings: electrical power systems, communication systems, artificial lighting and architectural acoustics. It explores the current energy context including basic knowledge of renewable energy systems and energy efficiency. The control of light and sound is included as an indispensable subject in the technical training of the architect. The student will be able to apply these principles and the basic development of these systems in the architectural design workshop. Face-to-face, hybrid and online course.

ARQU 6383 Professional Practice: Design Project

Three credits. Three lecture hours per week Prerequisite: Admission to the graduate program Introduction to the ethical, administrative, and regulatory concepts and processes of the professional practice of architecture. Presentation of legal and regulatory process considerations in the preparation of construction-related documents that are the responsibility of the architect in the process of providing professional services. Discussion of the architect's responsibilities in certifying construction documents. Review of the considerations, duties and responsibilities of the architect in professional architectural services contracts. Face-to-face, hybrid and online course.

ARQU 6384 Professional Practice: Design Firm

Three credits. Three lecture hours per week Prerequisite: Admission to the graduate program The course defines the professional practice of architecture and analyzes the social, economic, ethical, and legal context within which the professional office is organized to practice architecture. The basic concepts of economic and financial management that influence and determine the organization of a design firm and the scope of professional services are discussed. Organization of the architectural office; functional and economic components, and professional components and services. The course also covers issues related to the various phases of development of an architectural project including: the establishment of the designer-client relationship, the design process, the production of construction documents, and the supervision of the construction process of the project. Face-to-face, hybrid and online course.

OTHER COURSE DESCRIPTIONS:

ARQU 6895 Continuing Thesis

Continuation of the Thesis Project so that the student can make use of the library and other university facilities during the semester and summer.

ARQU 6991 Specialized Architecture Studio I: Geonology of Architectural Heritage

From one to twelve credits. Individual work with the consent of the professor Prerequisite: Admission to the graduate level and approval of the professor Course designed to provide the student with an opportunity to pursue specialized postgraduate studies in an area of particular interest related to environmental design. Topics, readings and research methods will be selected by agreement between the student and the professor. Students may enroll to receive between one and six credits per semester, depending on the nature of the topic chosen and the time allotted. Areas of study complementary to those included in other courses will be accepted. Assignments may be research or experiment, independent, hands-on experience, group projects, or other, in order to expand curricular flexibility and accommodate the student's special interests and needs. Tuition is limited to graduate-level students whose subjects have been pre-approved. To complete the course requirements, the student will submit two copies of a final report on their work and conclusions. This course can be repeated for up to twelve credits. Face-to-face, hybrid and online course.

ARQU 6992 Specialized Studio

From one to twelve credits. Individual work with the consent of the professor Prerequisite: Admission to the graduate level and approval of the professor Course designed to provide the student with an opportunity to pursue specialized postgraduate studies in an area of particular interest related to environmental design. Topics, readings and research methods will be selected by agreement between the student and the professor. Students may enroll to receive between one and six credits per semester, depending on the nature of the topic chosen and the time allotted. Areas of study complementary to those included in other courses will be accepted. Assignments may be research or experiment, independent, hands-on experience, group projects, or other, in order to expand curricular flexibility and accommodate the student's special interests and needs. Tuition is limited to graduate-level students whose subjects have been pre-approved. To complete the course requirements, the student will submit two copies of a final report on their work and conclusions. This course can be repeated up to twelve credits under varying topics.



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Email: escuela.arquitectura@upr.edu **Portal:**

<http://graduados.uprrp.edu/>

DEGREE: Master of Architecture - M.Arch 3.5

ACCREDITATIONS: *National Architectural Accrediting Board (NAAB)*

As part of the requirements toward a bachelor's degree to practice architecture, most state boards require a professional degree accredited by the *National Architectural Accrediting Board* (NAAB). The NAAB is the only agency authorized to accredit architecture programs in the United States of America and Canada. In 2014, the NAAB granted the School of Architecture the maximum period of eight years of accreditation. The accreditation model is based on the institution's values for decision-making, the ability to develop and provide post-secondary education within the context of its history and mission, the fundamental principles of academic freedom and respect for diversity of thought, teaching and methodology. These principles and practices have remained stable for the past 50 years.

Our Master of Architecture Route 3.5 program consists of a graduate professional degree that constitutes an accredited professional education.

In 2020, the NAAB approved substantial changes to the Master of Architecture so that those interested in obtaining a professional degree in architecture, who come from high schools other than architecture, can opt for the M.Arch 3.5, a career path to the degree in three and a half years. Likewise, he passed the M.Arch 1.5, a one-and-a-half-year route for applicants from high school degrees in pre-architecture.

TEACHERS:

Carola Ballester Descartes, Master's Degree in Planning, University of Puerto Rico, 2013; and Master's Degree in Landscape Architecture, Polytechnic University of Puerto Rico, 2010. Associate Dean. Landscape Architecture.

Blanquita Calzada Acosta, MArch, University of Puerto Rico, 1983. Coordinator of the Graduate Program, Licensed Architect. Design.

Joseph Coleman-Davis, MArch, Tulane University of New Orleans, Louisiana, 2004. Design.

Luis Daza Duarte, PhD, University of Puerto Rico, Mayagüez, 1996. Professor. Structures.

Nataniel Fúster Félix, Ph.D. in Design, Harvard University, 1999. Professor.

Anna L. Georas Santos, PhD, Complutense University, Madrid, 2015. Associate Professor, Licensed Architect. Design, Professional Internship Internship.

Mayra O. Jiménez Montano, PhD, University of Granada, 2016. Dean. Design, Design Research Methodologies.

Jorge L. Lizardi Pollock, PhD, University of Puerto Rico, 2002. Associate Professor. History and Theory, Urban Studies.

Brenda Martínez Quiñones, MArch, University of Puerto Rico, 2008, Instructor. Sustainability.

Pedro Muñiz Rivera, Ph.D. in Architecture, Virginia Polytechnic Institute State University 1985, Professor.

José Pagán Parés, Master's Degree in Design and Restoration of Architectural Structures, Polytechnic University of Catalonia, Barcelona, Spain, 2006. Master of Architecture, Illinois Institute of Technology, Crown Hall College of Architecture, Chicago, 2002. Instructor, Licensed Architect. Design and Structures.

Luis Pico Lacomba, MArch, University of Puerto Rico, 1981; MBA, University of Phoenix, 1996. Project Management Professional Certification, Project Management Institute, 2001. Instructor, Licensed Architect. Professional practice.

Juan C. Penabad Sánchez, MArch, Yale University, 1989. Assistant Professor, Licensed Architect. Design and Technology.

Inés Penabad Peña, MArch, University of Puerto Rico, 2018. Instructor. Architectural design, representation and visualization.

Robin Planas Casado, MArch, University of Puerto Rico at Río Piedras, 2007, Associate Professor. Licensed Architect.

Omayra Rivera Crespo, PhD, La Salle School of Architecture, Barcelona, 2011. Associate Professor. Participatory design.

Ernesto Rodríguez Matos, MArch, Massachusetts Institute of Technology, 1996. Coordinator of the Bachelor's Program in Environmental Design. Design.

Osvaldo J. Santiago Rodríguez, MArch, University of Puerto Rico at Río Piedras, 2020, Instructor.

Esteban Sennyey Halasz, MArch, Cornell University, New York 1982, Professor.

ADMISSION REQUIREMENTS: m.Arch 3.5

General Requirements of the Río Piedras Campus

http://graduados.uprrp.edu/index.php?option=com_content&view=article&id=105&Itemid=360&lang=en

Specific Admission Requirements:

1. Have a Bachelor's degree in another discipline, other than the area of environmental design or architecture, from a recognized university.
2. Minimum general academic index of 3.00 points, on a scale of 4.00.
3. For the validation of courses from international institutions, candidates must contact the Graduate Program Office. To coordinate the sending of the official description and transcript of the courses from the institution of origin, all documents must be sent to: Escuela de Arquitectura 11 Ave. Universidad Ste. 1101 San Juan PR 00925-2531
4. Proficiency in the Spanish language.
5. Application for Admission to Graduate Studies in electronic format.
6. Statement of purpose (600-800 words). This statement should be written in the form of an essay, where the candidate exposes his/her interests related to architecture, motivation, and academic and professional goals.
7. Two (2) letters of recommendation for Graduate Studies from people who know about your academic and professional performance.
8. Two (2) official copies of credit transcripts. They should be sent to the following mailing address: School of Architecture 11 Ave. Universidad Sta. 1101 San Juan, PR 00925-2531
9. Interview process with the Graduate Committee.
10. Portfolio of art, design and research work (optional). If the portfolio has a link to a web page or portal, this digital format can replace the printed version and can include it along with the statement of purpose.
11. Have completed the calculus course. If you do not have it, you will have the option to take it, after being admitted to the Program.
12. Students from other universities or educational centers may be asked to take additional courses.

GRADUATION REQUIREMENTS:

1. Have an overall index of 3.00 points in the courses leading to the degree.
2. For full-time M.Arch II - 3.5 students, a period of no more than seven (7) years from the date of admission will be set for them to meet all the requirements of the degree, including the integrated final project (PIFC) or the defense and delivery of the Thesis, if applicable.
3. For part-time M.Arch II – 3.5 students, the deadline for fulfilling all degree requirements will be an additional year, i.e., eight years (8).

4. The student is responsible for depositing the final document of his/her Thesis or Integrated Final Degree Project in the Institutional Repository of the UPR, <https://repositorio.upr.edu>, within a maximum period of one month after the thesis defense has been carried out. It will be optional at *University Microfilms International's Dissertations & Theses Global*.

PROGRAM OF STUDY:

Program Requirements	Credits
ARQU 6331 Architectural Design I: Fundamentals of Design	5
ARQU 6332 Architectural Design II: Elementary Design	5
ARQU 6333 Architectural Design III: Intermediate Design	5
ARQU 6334 Advanced Architectural Design IV: Architecture as an Urban Component	5
ARQU 6335 Advanced Architectural Design V: Anatomy of the Building	5
ARQU 6336 Architectural Design VI: Advanced Design Laboratory	5
ARQU 6337 Architectural Design VII: Integrated Final Project / Thesis	5
ARQU 6211 History of Architecture I: The Invention of the Classical	3
ARQU 6212 History of Architecture II: Genealogy of Modernity	3
ARQU 6213 History of Architecture III: Contemporary Architecture and Urbanism	3
ARQU 6214 History IV: History of Puerto Rican Architecture	3
ARQU 6325 Structures I: Statics, Equilibrium, and Analysis of Statically Determined Structures	3
ARQU 6326 Structures II: Material Strength and Structural Behavior	3
ARQU 6327 Structures III: Analysis of Indeterminate Structures in the Face of Gravitational Loads, Wind and Earthquake	3
ARQU 6328 Applied Structural Design	3
ARQU 6511 Technology I: Design of Bioclimatic Architecture	3
ARQU 6512 Technology II: Site Design, Materials and Construction Techniques	3
ARQU 6513 Technology III: Building Systems	3
ARQU 6514 Technology IV: Energy Systems	3
ARQU 6146 Research Methods and Techniques in Architecture	2
ARQU 6225 Theory and Critique of Architecture	3

Program Requirements	Credits
ARQU 6425 Professional Experience Internship (IXP)	3
ARQU 6431 Research Seminar	2
ARQU 6432 Publication Seminar	1
ARQU 6383 Professional Practice I: Design Project	3
ARQU 6384 Professional Practice II: Design Firm	3
Free Electives	18
Total Credits	106

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Río Piedras Campus Registrar's Office as of June 30, 2021 to be included in the 2020-2021 Graduate Catalog.

ARQU 6331 Architectural Design I: Fundamentals of Design

Five credits: 12 hours of workshop per week.

Prerequisite: Admission to the Graduate Program Introductory course to fundamental topics of the design process. The student will understand that the act of designing is an orchestrated decision-making process to simultaneously solve multiple problems. You will become familiar with architectural vocabulary, principles of spatial planning, formal and spatial aspects of architectural composition such as: point/line-plane/volume/space; positive/negative space; color, light/shadow, and the handling of form. You will recognize the importance of diagramming as a basis for proposing a solution (strategy). You will develop representational skills to produce freehand and technical drawings, as well as analytical, conceptual or representative models of your projects. The theme of dwelling will be introduced as a manifestation of design. You will develop skills to conceptualize, organize the program and understand the concepts of form and function, analysis and synthesis, as well as manage contextual variables. Face-to-face, hybrid and online course.

ARQU 6332 Architectural Design II: Elementary Design

Credits: 5 Twelve hours of workshop per week.

Prerequisite: ARQU 6331 The course introduces the student to the multiple dimensions of the design process: composition, urban context, and climatic conditions. It addresses typology, programming, as well as sustainability and tectonic considerations. It integrates strategies for working with variables in the design process, seeking coherent answers to simultaneous problems. The principles of composition, the architectural elements and the

spatial characteristics that define the architectural object are studied. The student is exposed to mathematical-geometric concepts such as scale, proportion, perspective, and shadow projection. Sharpen two-dimensional representation skills: orthogonal drawings, perspectives, and other graphic resources to develop three-dimensional visualization as a design tool. It is initiated in the use and management of digital representation programs. The study of architectural precedents will allow concrete experiences and applications. Face-to-face, hybrid and online course.

ARQU 6333 Architectural Design III: Intermediate Design

Five credits. Twelve hours of workshop per week.

Prerequisite: ARQU 6332 The course exposes the student to the integration of architectural design variables and the development of approaches to face the design process from the scale of the object to the urban. They will examine the form-function relationships in the light of insertion in the urban context, the management of spatial sequence, the establishment, accommodation and use, expression of the character of a building. You will develop the project at the level of construction detail that shows the skills in the management of construction systems, including aspects of building sustainability. It will include requirements from existing building codes and regulations. It will include the design research component with the aim of recognising the relevance of precedents, site conditions and its occupants. It will generate a programmatic agenda. The student will continue to develop their skills in the different media of digital representation and simulation, following the graphic standards of the profession. Face-to-face, hybrid and online course.

ARQU 6334 Advanced Architectural Design IV: Architecture as an Urban Component

Five credits. Twelve hours of workshop per week.

Prerequisite: ARQU 6333 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 6335 Advanced Architectural Design V: Anatomy of the Building

Five credits. Twelve hours of workshop per week.

Prerequisite: ARQU 6333 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 in 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.

ARQU 6336 Architectural Design VI: Advanced Design Laboratory

Five credits. Twelve hours of workshop per week.

Prerequisite: ARQU 6335 Integrated course to the Research Seminar. It is an interdisciplinary and participatory connection for the broad study of the city. By questioning the variables that affect the city, the critical capacity and social responsibility of the student in the face of the demands of a society with broad and diverse problems is fostered. Conditions at different scales, linked to the territory, the city, the block and the building: flows, functions, forms of occupation and habitability, services, the socio-economic/cultural reality, layers of history, operational and regulatory requirements will give way to an investigation that recognizes the connections or disconnections of the city. Students can work individually or in groups to propose design solutions that respond to improving the city through architecture. It concludes with the preliminary proposal to be developed in the course of the integrated end-of-degree project or the individual thesis project. Face-to-face, hybrid and online course.

ARQU 6337 Architectural Design VII: Integrated Final Project/Thesis

Five credits. Twelve hours of workshop per week.

Prerequisite: ARQU 6336 Corerequisite: ARQU 6324, ARQU 6432 Master's Degree Closing Course. The student must develop their architectural project in an integrated way to expose the set of knowledge and skills acquired during the degree. It is based on the theoretical framework, analysis and previous studies on aspects related to the territory, the programme or the urban spatial solutions carried out in the previous course. It synthesizes, from a comprehensive and complex perspective of architecture, the different humanistic and technical disciplines involved in the drafting of a professional architectural project. The operational sequences are defined, without losing the conceptual argument of the initial design, as well as the environmental control systems (HVAC/Electrical) and the tectonics of the building, through the design of construction details. The final product is of substantial complexity, developed with poetry, depth and definition to demonstrate that the student has the merits to be considered a fellow architect. Face-to-face, hybrid and online course.

ARQU 6211 History of Architecture I: The Invention of the Classical

Three credits. Three hours of lectures a week.

Prerequisites: Admission to the Graduate Program The course chronologically explores the origins of Western architecture, from prehistory and ancient civilizations, to the so-called Gothic period and the Italian *Risorgimento*, the latter tied in many of its conceptions to the intellectual richness 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 6212 History of Architecture II: Genealogy of Modernity

Three credits. Three hours of lecture per week Prerequisite: ARQU 6211 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, it 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. Face-to-face, hybrid and online course.

ARQU 6213 History of Architecture III: Contemporary Architecture and Urbanism

Three credits. Three hours of lecture a week.

Prerequisite: ARQU 6212 The course presents the main responses that architects gave to the problems of modernization, industrialization, immigration to cities, and 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 6214 History of Puerto Rican Architecture

Three credits. Three hours of lecture per week Prerequisite: ARQU 6213 The History of Architecture in Puerto Rico course is an overview of architectural developments in Puerto Rico from pre-Columbian times to the present day. The course offers students 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 in Puerto Rico. The course draws on primary sources in archives and libraries and secondary sources as listed in the bibliography.

ARQU 6325 Structures I: Statics, Equilibrium, and Analysis of Statically Determined Structures

Three credits. Three hours of lectures a week.

Prerequisite: Admission to the graduate program The course will equip students with basic knowledge to analyze and conceptualize simple structures. The principles of statics and decomposition of forces are studied; vector operations; systems of concurrent and non-concurrent forces, laws of static equilibrium (in particles and rigid bodies in both 2D and 3D systems); types of support and reactions; use and generation of free-body diagrams in the analysis of structures; analysis of distributed forces, centroids, and centers of gravity; Calculation of reactions in simple structures and analysis of truss-type structures. Included is a special capstone project that explores the different structural systems and their function in transferring loads. Face-to-face, hybrid and online course.

ARQU 6326 Structures II: Material Strength and Structural Behavior

Three credits. Three hours of lecture per week Prerequisite: ARQU 6325 The course is geared towards the analysis of simple structures such as beams and trusses. The analysis of trusses is studied by the methods of joints and sections; The effects of external loads on simple beams on internal force states are explored by generating axial loads, shear loads and bending moments. The sectional properties of plane areas (Area, Centroid, Moments of Inertia, Polar Moment of Inertia, Radius of Rotation, etc.) are studied. The student learns to calculate the different types of stresses at any point in the structure. The double integration method for the computation of deformations in beams is investigated. Finally, the stability of columns and the way to quantify their structural capacity are studied. A final project related to one of the most relevant topics of the course is included. Face-to-face, hybrid and online course.

ARQU 6327 Structures III: Analysis of Indeterminate Structures in the Face of Gravitational Loads, Wind and Earthquake

Three credits. Three hours of lecture a week.

Prerequisite: ARQU 6326 The course is oriented towards the analysis of simple structures such as beams and trusses. The course will provide students with basic knowledge to be able to analyze indeterminate structures (continuous beams and gantries) by exact methods (moment distribution method) and also using approximate procedures (methods for analysis

of gravitational and lateral loads). It delves into the structural risk threats caused by hurricanes and earthquakes, emphasizing the quantification of lateral loads using the current code (ASCE-7-2010). The student receives technical and scientific information related to the seismic vulnerability of Puerto Rico (earthquakes and tsunamis) and the recurrent threats of hurricanes in our environment. At the end of the course, the student prepares a final project that incorporates the evaluation of wind and earthquake loads of a real building. Face-to-face, hybrid and online course.

ARQU 6328 Applied Structural Design

Three credits. Three hours of lecture a week.

Course focused on structural design for architects. Architectural precedents will be studied for the integration of the structural system into its architecture. In such cases, the structure acquires meaning through its visual, aesthetic and tectonic materialization, not restricted to its support function. The student will be introduced to the process of structural analysis using three-dimensional structural modeling, study of the mechanical properties of the material, advantages and disadvantages of its application, analysis and design in different types of loads, design methods and its application in real construction projects. Emphasis will be placed on the use of technical vocabulary and the application of minimum requirements from building codes. Face-to-face, hybrid and online course.

ARQU 6511 Technology I: Design of Bioclimatic Architecture

Three credits: Three hours of lecture per week Prerequisite: Admission to the Graduate Program The course incorporates concepts of the physical and natural environment, and the strategic application of passive methods and techniques in architectural design. Bioclimatic principles and the characteristics of materials used in vernacular architecture of various climatic regions are analyzed. Examples of alternative systems for the production of renewable and sustainable energy appropriate and integrated into the architectural work are discussed: heliostats, photovoltaics, solar thermal collectors, cogeneration systems and wind systems. The course provokes discussion of the characteristics of the components

and diverse climate controls in Puerto Rico, in the tropics, and in other climatic regions. Students become familiar with the various methods of human adaptability and heat exchange through the use of thermal indices and bioclimatic charts y psychometrics. Face-to-face, hybrid and online course.

ARQU 6512 Technology II: Site Design, Materials and Construction Techniques

Three credits. Three hours of lecture a week.

Prerequisite: ARQU 6511 The course focuses on identifying the physical, biological, and cultural attributes that influence site selection, analysis, and site design. The properties of various materials and construction techniques are discussed. The topographical, geological, hydrological, climatic, ecological characteristics, types and problems associated with soils are analyzed. Building regulations and codes, legal considerations governing compliance, and decision-making for site selection are laid out. The requirements for spaces, circulation systems, parking lots, and guides under the ADA are discussed. The methods used for the movement and leveling of the land according to the vehicular and pedestrian circulation

systems, and the best location of the building are studied. The most efficient methods for receiving, directing and disposing of rainwater on the surfaces, floors and roofs of buildings are selected. Face-to-face, hybrid and online course.

ARQU 6513 Technology III: Building Systems

Three credits. Two hours of lecture and two hours of labs per week Prerequisite: ARQU 6512 The course promotes discussion and study of the various mechanical systems that are part of the design of buildings. It focuses on how mechanical systems can be integrated 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 established by the applicable regulations for commercial and residential projects, with an emphasis on vernacular, traditional and contemporary solutions. Face-to-face, hybrid and online course.

ARQU 6514 Technology IV: Energy Systems

Three credits. Three hours of lecture a week. Prerequisite: ARQU 6513 The course exposes the student to the study of electrical energy systems and to specific topics of environmental control in buildings: electrical power systems, communication systems, artificial lighting and architectural acoustics. It explores the current energy context including basic knowledge of renewable energy systems and energy efficiency. The control of light and sound is included as an indispensable subject in the technical training of the architect. The student will be able to apply these principles and the basic development of these systems in the architectural design workshop. Face-to-face, hybrid and online course.

ARQU 6146 Research Methods and Techniques in Architecture

Two credits.

The course exposes the student to know the fundamental concepts and research methods for their application to the field of architecture. In this, 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 6225 Theory and Critique of Architecture

Three credits: Two hours of lecture and one hour of discussion per week. Prerequisite: ARQU 6213 The course explores in depth the theory and critique of architecture with an emphasis on 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 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. Face-to-face, hybrid and online course.

ARQU 6425 Professional Experience Internship (iXP)

Three credits. Three hours of lecture per week

Prerequisites: ARQU 6334.

Admission to the Graduate Program (for students who come from a bachelor's degree in environmental design or equivalent baccalaureates).

The Professional Experience Internship (iXP) course exposes the student to professional experience, working in a firm, organization, or agency to perform pertinent tasks to architecture. Meets Path to Licensure requirements as mandated by the local Department of State and the National Council of Architectural Registration Boards (NCARB); the support services of the College of Architects and Landscape Architects of Puerto Rico (CAAPPR); and general aspects of the professional practice of architecture from multiple perspectives. The internship has three components: 1. Professional Experience Internship; 2. Community Service; 3. Academic work. Face-to-face, hybrid and online course.

ARQU 6431 Research Seminar

Two credits. Two hours of seminar per week.

Prerequisite: ARQU 6145 Correct: ARQU 6336 The course exposes the student to the use of research methodologies appropriate for advanced studies, particularly those related to the discipline of architecture. In it, research skills and competencies are applied so that the student defines a problem, carries out a theoretical reflection and designs the research method relevant to the problem, selecting and using tools that allow them to rigorously develop research based on the search for bibliographic resources, as well as the collection, analysis and evaluation of data. The course is closely related to the Design Research Laboratory to contribute to the development of methodologies that allow the scientific study of the contexts of architectural intervention. In addition, the student is exposed to workshops and seminars to support them, carried out by external resources, to help in the understanding of concrete and practical aspects of architecture with those of theory.

Face-to-face, hybrid and online course.

ARQU 6432 Publication Seminar

A credit. One hour of seminar per week.

Prerequisite: ARQU 6431.

Correquisite: ARQU 6337 The course exposes the student to a practical workshop for the design of the document (written and graphic) of the integrated final degree project (PIFC). In it, the student designs the PIFC document, applying the skills and competencies in writing techniques and editorial design. In addition, it assists the student and provides the tools for an effective oral presentation that emphasizes the virtues of the project. The course is closely related to the Research Seminar course and is a support course for the Design workshop of the Final Degree Project or the Thesis Project. The student is exposed to support workshops and seminars, conducted by external resources. Face-to-face, hybrid and online course.

ARQU 6383 Professional Practice: Design Project

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program Introduction to the ethical, administrative, and regulatory concepts and processes of the professional practice of architecture.

Presentation of legal and regulatory process considerations in the preparation of construction-related documents that are the responsibility of the architect in the process of providing professional services. Discussion of the architect's responsibilities in certifying construction documents. Review of the considerations, duties and responsibilities of the architect in professional architectural services contracts. Face-to-face, hybrid and online course.

ARQU 6384 Professional Practice: Design Firm

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program The course defines the professional practice of architecture and analyzes the social, economic, ethical, and legal context within which the professional office is organized to practice architecture. The basic concepts of economic and financial management that influence and determine the organization of a design firm and the scope of professional services are discussed. Organization of the architectural office; functional and economic components, and professional components and services. The course also covers issues related to the various phases of development of an architectural project including: the establishment of the designer-client relationship, the design process, the production of construction documents, and the supervision of the construction process of the project. Face-to-face, hybrid and online course.

OTHER COURSE DESCRIPTIONS:

ARQU 6991 Specialized Architecture Studio I: Gerontology of Architectural Heritage

From one to twelve credits. Individual work with the consent of the professor Prerequisite: Admission to the graduate level and approval of the professor Course designed to provide the student with an opportunity to pursue specialized postgraduate studies in an area of particular interest related to environmental design. Topics, readings and research methods will be selected by agreement between the student and the professor. Students may enroll to receive between one and six credits per semester, depending on the nature of the topic chosen and the time allotted. Areas of study complementary to those included in other courses will be accepted. Assignments may be research or experiment, independent, hands-on experience, group projects, or other, in order to expand curricular flexibility and accommodate the student's special interests and needs. Tuition is limited to graduate-level students whose subjects have been pre-approved. To complete the course requirements, the student will submit two copies of a final report on their work and conclusions. This course can be repeated for up to twelve credits. Face-to-face, hybrid and online course.

ARQU 6992 Specialized Studio

From one to twelve credits. Individual work with the consent of the professor Prerequisite: Admission to the graduate level and approval of the professor Course designed to provide the student with an opportunity to pursue specialized postgraduate studies in an area of particular interest related to environmental design. Topics, readings and research methods will be selected by agreement between the student and the professor. Students may enroll to receive between one and six credits per semester, depending on the nature of the topic chosen and the time allotted. Areas of study complementary to those included in other courses will be accepted. Assignments may be research or experiment, independent, hands-on experience, group projects, or other, in order to expand curricular flexibility and accommodate the student's special interests and needs. Tuition is limited to graduate-level students whose subjects have been pre-approved. To complete the course requirements, the student will submit two copies of a final report on their work and conclusions. Up to twelve credits can be repeated under varying topics.

School of Law





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Phone: (787) 999-9561, 999-9613

Email: derecho.llm@upr.edu **Portal:**

<https://derecho.uprrp.edu/admision/ll-m/>

DEGREE: Master of Laws (LL.M.)

At the School of Law we have a Master's Program which offers foreign lawyers the opportunity to complete the General LL.M. Program and, to both local and foreign lawyers, the possibility of completing the degree in one of the following two curricular emphases: Judicial Training, and Commercial Law.

The General Program is available to attorneys who have graduated from U.S. and foreign educational institutions. Its goal is to develop lawyers in the principles and procedures in the legal systems of the Anglo-American tradition and the civil tradition.

The curricular emphases of Judicial Education and Commercial Law are available to attorneys who have graduated from law schools in Puerto Rico, as well as from U.S. and foreign educational institutions. Their goal is to develop jurists with the necessary skills for the adjudication of justice in the Judicial Branch and in the adversarial system. It also provides the opportunity for legal professionals to expand their knowledge in business organization issues with a focus on commercial law.

The School of Law has academic offerings in summer (June-July) and winter (January), so the student of the Master's Program will be able to take courses with curricular sequences that adjust both to their face-to-face availability in Puerto Rico and to their professional needs.

In addition, we have the executive format which provides the opportunity for foreign or U.S. students to complete the degree by attending summer and winter sessions and taking mini-courses in the fall and spring. Students will be able to complete the degree in person by taking 6 credits in each summer session for two consecutive summers, and complete the remaining 12 credits in mini-courses offered during the regular academic and winter semesters. This format reduces the periods when students will be away from their countries and jobs.

ACCREDITATIONS:

American Bar Association (1945)
321 Clark Street Chicago, IL 60611
www.abanet.org/legaled

Association of American Law Schools (1944)
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Ernesto Chiesa Aponte, J.D., 1974, MA, 1967, University of Puerto Rico. Professor and Distinguished Professor. Criminal Law, Criminal Procedural Law, Law of Evidence and Evidence, Seminar on Criminal Procedural Law.

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Luis E. Rodríguez Rivera , LLM, 1998, University of Cambridge, England; J.D., 1987, Harvard University. Professor. International Environmental Law, Administrative Law, Natural Resources Legislation, Environmental Law Seminars, Administrative Law Seminars.

Iris Y. Rosario Nieves, PhD in Law, 2022, Pompeu Fabra University; Master's Degree in Criminal Law, 2014, University of Palermo; JD, 2006, Univ. of Puerto Rico. Assistant Professor. Criminal law; Criminal procedure; Evidentiary Law; Post-sentencing DNA.

William Vázquez Irizarry, LLM, 1997, London School of Economics; J.D., 1994, University of Puerto Rico. Professor. Civil Procedural Law, Constitutional Law, Administrative Law, Government Law, Executive Process.

Luis M. Villaronga Arostegui, MA, 1973, University of Pennsylvania; J.D., 1966, Harvard University. Professor and Distinguished Professor. Constitutional Law, Insurance Law, Federal Jurisdiction, Civil Rights Litigation.

David Wexler, J.D., 1964, New York University. Professor. Theory of Law; Therapeutic Jurisprudence; Criminal law.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

- Have obtained the Juris Doctor, the bachelor's degree or equivalent degree in Law, with an average of B or higher, or its equivalent, from a foreign university education institution, which, based on high academic standards, is fully recognized by the state authorities of the country in which it is located.
- Have a command of the Spanish language and the ability to read and understand the English language, as proven by a satisfactory result in the *Test of English as a Foreign Language* , known as TOEFL, administered by the *Educational Testing Service*. Proficiency in Spanish or English may be demonstrated if the student presents evidence of having studied in either of these languages at a duly accredited university. Special attention will be paid to the ability to read and comprehend in English and Spanish. Each student must demonstrate the ability to write in one of those two languages.

Required Documents for the Application for Admission

Submit the following documentation as a requirement for admission:

1. The duly completed Application for Admission to the School of Law.
2. Evidence of having obtained a Juris Doctor, a bachelor's degree or equivalent degree in Law.
3. Two official transcripts of all university credits approved or validated by the institution of origin. In those cases where the university of origin is not one accredited by the ABA, the transcripts must be duly authenticated and apostilled by the competent authorities of the country of the issuing university.
4. Copy of diploma.
5. Certify having studied in the English language or TOEFL results. (foreign applicants)
6. Certify that you have studied in Spanish, in case you have not studied in this language or it is not your native language. (foreign applicants)
7. Validation report of courses and grades. (foreign applicants)
8. Two letters of recommendation, at least one of which must be academic, describing in detail the applicant's academic qualifications, professional experience, and character.
9. Curriculum Vitae.
10. Personal statement that includes the background and personal profile, motivations for studying law and professional plans.
11. The Application for Admission must be made on the form provided by the School. It must be submitted no later than March of the year for which admission is requested. Those who are interested in starting to study in the January session have until October of the preceding year. Specific dates vary by year.
12. Students admitted to the Program who are not citizens of the United States of America must apply for and obtain the corresponding student visas from the U.S. Embassy in their country. The University of Puerto Rico will produce for each admitted student the required I-20 Certification. Each student, in turn, must complete and submit to the School of Law the financial certification that accompanies the application for admission, as well as the medical certificate of good health.

GRADUATION REQUIREMENTS:

Comply with the general graduation requirements in force at the Río Piedras Campus. In addition, students must meet the specific requirements of the program:

1. Have passed a minimum of 24 credits at the School of Law with an index of 2.50 points or more.

2. The time limit for completing all degree requirements is one year full-time and two years part-time.
3. Develop a research project, which will be coordinated with the research seminar requirement required by the Study Program. This project should lead to the production of a long, publishable monograph. The student will defend their research project before a panel of three members.
4. Complete one year of academic residency at the University of Puerto Rico School of Law, full-time, with the exception of the executive modality. Class attendance is mandatory. To satisfy the residency requirements for graduation purposes, the student is required to attend his or her classes punctually and regularly. Frequent absences will affect the final grade and may result in the total loss of credits.

PROGRAM OF STUDY:

Our LL.M. Program of Study is designed for students to complete twenty-four (24) credits in the period of one (1) year of full-assignment or two-year part-assignment study.

Students who have earned a bachelor's degree or equivalent degree in law from an educational institution not accredited by the ABA must take the courses directed by the Associate Dean and the following required courses:

Program Requirements	Credits
DERE 7018 Constitutional Law	4
DERE 7103 Structures and Processes of Anglo-American Law and their Interaction with Civil Law	2
Advanced Legal Research Seminar	2
Eighteen (18) Custom Selection Credits	16
Total Credits	24

Students of the Master's Program (LL.M.) must take a research seminar during their first semester as a required course:

Advanced Legal Research Seminar (2 credits)

The student will choose a seminar on a topic related to her field of study from the seminars offered each semester. The student will develop a research project, as a degree requirement, that leads to the production of an extensive monograph, of a publishable nature, under the supervision and evaluation of their mentor.

Custom Selection Credits

Students who have earned a bachelor's or bachelor's degree in law from an institution not accredited by the ABA will be able to satisfy the remaining credits by selecting courses in their areas of interest. The program will be prepared in such a way that each student can concentrate a substantial number of courses on a subject of their choice so that they can deepen their knowledge of it, such as: Orality in judicial proceedings; Intellectual property; Administrative law; Judicial Training; Environmental Law; Law and Technology, among others.

Students of the curricular emphases of Judicial Education and Commercial Law must complete at least twelve (12) credits in courses directed to their area of interest. The remaining twelve (12) credits may be selected from the general academic offer. They will not be able to repeat courses they have taken during their JD studies without the express authorization of the Associate Dean.

Each student will develop his/her study programme in close collaboration with his/her Programme Coordinator in such a way as to mediate due consideration in the selection of courses. This allows each student greater flexibility in promoting their particular interests in the light of their professional needs. Our *curriculum* features more than 75 specialized courses and over 20 seminars on topics related to our legal profession.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

The courses are organized in numerical order according to their codes. This order does not correspond to the sequence in which it is recommended to take the courses.

DERE 7018 Constitutional Law

Four credits.

A study of the limitations and powers in the relations between the state governments, the Federal Government, and the Commonwealth of Puerto Rico. Examination and comparative study of the entire subject matter of the course in light of the jurisprudence of the Federal Supreme Court and of Puerto Rico and the Constitutions of the United States and Puerto Rico. The course discusses the federal power to regulate commerce and the limitations that the clause imposes on the economic regulation of the states: the general powers of Congress and its interaction with state and local governments; due process limitations on criminal proceedings; substantive due process limitations on economic and other governmental regulations; the right to freedom of expression in the political, religious and other spheres; The Equal Protection of Laws Clause

and judicial review of legislative action. This course will be offered face-to-face, hybrid, and online.

DERE 7103 Structures and Process of Anglo-American Law and its Interaction with Civil Law

Two credits. One hour of lecture and one hour of discussion per week. Examination of the main institutions, structures, and processes of Anglo-American law and their interaction with civil law in the context of Puerto Rican legal culture. An overview of the Anglo-American institutions present in Puerto Rico, the historical and social process that introduced these institutions in Puerto Rico, the natural tensions that sometimes produced their arrival and the way in which they have evolved. This course will be offered in both face-to-face and distance learning modalities.

OTHER COURSE DESCRIPTIONS:**DERE 7006 Tort Liability**

Three credits.

Principles of civil law and common law relating to tort liability arising from fault or negligence: highlighting the interaction of these principles in Puerto Rico.

DERE 7007 Rights in rem

Three credits: Study of rights over things versus rights of credit. Classification of things. Possession and the right to possession. Property rights and their evolution. Its modalities by reason of object. Methods of acquisition of rights in rem. The rights of usufruct. Easement rights. Security rights. The safe home.

DERE 7008 Personal and Family Law

Three credits.

Study of the family as a social and legal institution. Birth, extinction and limitation of personality. Study of Family Institutions: Marriage, Divorce, Paternity y filiation, parental authority, maintenance between relatives, emancipation and guardianship.

DERE 7015 Criminal Law

Three credits.

Study of the nature, characteristics, genesis, sources and concepts of criminal law. Its historical evolution in Puerto Rico. The interpretation of criminal law and its temporal and territorial application. The principle of legality. The General Theory of Crime. Analysis of the principles of criminal law, such as: action, culpability, illegality, imputability, participation and co-authorship, attempt, concurrence of crimes, statute of limitations, penalties and security measures. This course will be offered hybrid, face-to-face, and online.

DERE 7016 Law of Obligations and Contracts

Four credits.

Credit rights. Types of obligations. Its effects. Ways of extinguishing obligations, especially payment and innovation. Individual Actions and Creditor Class Actions. The evolution of the

contract. Its binding force. Study of consent, object, and cause of contracts. The perfection of the contract, its inefficiency by reason of non-existence, nullity, rescission and termination. Special Terminations. The rebus sic stantibus clause. Face-to-face, hybrid and online course.

DERE 7017 Civil Procedural Law

Four credits.

Study of the organization and jurisdiction of the courts. Study of the civil procedural law in force according to the rules of civil procedure promulgated by the Supreme Court of Puerto Rico in 1958. Analysis and comparison with the procedural law in force prior to these rules. This course will be offered face-to-face, hybrid, and online.

DERE 7020 Special Criminal Law

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7015 Systematic Study of the Special Part of the Penal Code and Other Statutes.

DERE 7021 Federal Jurisdiction

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: DERE 7017 and 7018 Study, analysis, and reflection on Article III of the U.S. Constitution and the main federal statutes governing the exercise of federal jurisdiction. Concept, nature and scope of the federal judiciary and the basis for its exercise. The distribution of judicial power between federal and state courts, the principles of federalism, conflicts between the federal and state judiciary, and the doctrines developed to resolve them. This course will be offered face-to-face, hybrid, and online.

DERE 7025 Law and Social Change

Study of the legal aspects of development and social change. Existing legal institutions and their adequacy to deal with the most serious social problems of the modern era will be analysed; the rationale for legislation on planning, urban planning, housing, civil rights and poverty, and the main legal trends in these and other areas that are an effect of economic development and social change. This course will be offered face-to-face, hybrid, and online.

DERE 7026 Law of Evidence and Evidence

Three credits.

Prerequisite: DERE 7017 Study of the principles of evidence in force according to the doctrines elaborated by the supreme court of Puerto Rico. Provenance and origin of these principles and analysis of modern trends in relation to them. This course will be offered face-to-face, hybrid, and online.

DERE 7027 Commercial Contracts

Three credits.

Prerequisite: DERE 7016 Study of the theory of modern commercial law and the new commercial regulation. The historical development and sources of commercial law, commercial contracts and special regulations. This course will be offered face-to-face, hybrid, and online.

DERE 7028 Administrative Law

Four credits.

Prerequisite: DERE 7018 Analysis of the reasons for the development of the administrative process.

Study of functions

and administrative agency procedures. Research Review,
Interpretation; quasi-legislative and quasi-judicial administrative.

of
those
of the

Performance
Functions

DERE 7029 Inheritance Law

Three credits.

Prerequisites: DERE 7008 and DERE 7016 Intestate succession. Testate succession. Donations. The trust. This course will be offered face-to-face, hybrid, and online.

DERE 7035 Mortgage Law

Three credits.

Historical evolution of mortgage legislation. Registry budgets and their application in Puerto Rican positive law. Elements of the land registry. The registrar, the property, registrable rights and titles, the registered owner, the registry books, the operations carried out in the registry. Study of the right in rem and the summary mortgage enforcement procedure. Face-to-face, hybrid and online course.

DERE 7039 Theory of Law

Three credits.

Examination of the fundamental themes and problems of legal theory, including conceptions of law, the validity or legitimacy of norms, problems of legal methodology, key concepts of the prevailing legal order, and the relationships between law, power, social structure, and ideology. These issues will be analyzed by examining the contributions of the various schools and currents of legal thought, with particular emphasis on the most recent developments in the discipline. Face-to-face, hybrid and online course.

DERE 7540 International Environmental Law

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

Exploration, from an international perspective, of contemporary issues and problems in the law of environmental protection and conservation of natural resources, such as: the application of international law and the environment to the protection of air and atmosphere, biodiversity, territorial resources, fauna and flora, marine and fresh waters, and population growth.

Examination of diverse legal doctrines, including interpretations of international treaties and

implementation of recent laws and agreements that impact efforts to manage, preserve, restore,

and protect the environment. This course will be offered face-to-face, hybrid, and online.

DERE 7056 Energy & Law

Three credits. Three hours of lecture per week Prerequisite: Dean's Permit Federal and Puerto Rico legislation, regulations and jurisprudence on imports, production, transformation, speech, prices and conservation of energy, Energy policy; institutional structure and practice. Case studies to study (illustrate) typical legal problems. This course will be offered face-to-face, hybrid, and online.

DERE 7059 Trademark Law

Two credits. Two lecture hours per week Prerequisites: DERE 7007 This course is designed for students with no prior experience or knowledge in the area of trademarks. The trademark law course is intended to familiarize the student with Puerto Rico's trademark law, known as the Puerto Rico Government Trademark Law, Act No. 169 of December 16, 2009, as amended and the federal trademark law known as the Lanham Act, 15 U.S.C. SEC. 1051 et seq. and related doctrines. The course will focus on trademarks, trade dress, unfair competition, among others. For each of these, we will discuss the reasons why protection is granted, eligibility requirements, cause of action, affirmative defenses, and remedies. The course is also intended to introduce the student to the process of filing trademark applications at both the federal and state levels and the licensing process related to trademarks.

DERE 7066 The Legal Profession

Two credits. One hour of lecture and one hour of discussion per week.

Study of the legal profession. Review of its history, organization, commitments, values and guiding principles, and the processes for regulating the professional responsibility of its members. Analysis of the interaction of the profession with other social sectors and its relationship with the processes of social transformation. Examination of the impact of political, social and social trends on the legal profession
y contemporary cultures. This course will be offered face-to-face, hybrid, and online.

DERE 7075 The Law and Gender Discrimination

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7018 Prerequisite Constitutional Law (DERE 7018) Sex discrimination in family relationships, employment, education, and criminality is studied, examining the support that the law has provided for such discrimination

and how new constitutional trends are contributing to the attainment of equal opportunities for members of both sexes.

DERE 7076 Securities Legislation

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

Prerequisite: DERE 7036 Analytical Study of Federal Securities Statutes: Securities Act of 1933 and Securities and Markets Act of 1935. It examines the implementation of securities traffic regulation by regulators (the Securities and Exchange Commission and the Office of the Commissioner of Financial Institutions). In addition, the relationship between the public corporation and the shareholder is studied. It discusses the role of states in securities regulation, in particular examines the content and scope of Puerto Rico's uniform securities law. This course will be offered face-to-face, hybrid, and online.

DERE 7085 Legal Aspects of International Business Transactions

Three credits. Three hours of lecture a week.

Aspects of private and international law that affect commercial transactions between private entities domiciled in different countries are studied. It reviews the aspects of private international law common to all commercial transactions, such as dispute resolution, arbitration of international disputes and the framework of the World Trade Organization. It then examines a number of specific commercial transactions that move from the realm of domestic law to international law, such as, for example, the international sale of goods, the incorporation of a business in another country, the creation of a joint investment company in China, the transfer of technology with companies domiciled in the European Union, and distribution contracts between companies domiciled in the European Union and the United States. USA. This course will be offered face-to-face, hybrid, and online.

DERE 7086 Legal Aspects of the European Union

Three credits. Three hours of lecture a week.

This course discusses the development of the European Union since its inception as a project to bring about European peace after World War II. It studies the development of the internal market through the neofunctional integration of the economic communities and we will observe its evolution up to the present Treaty of Lisbon with its emphasis on the constitutional development of the union through the concept of European citizenship. The structure of the Treaty on European Union, the Treaty for the Functioning of the European Union, the functioning of the most relevant European institutions, such as the Council, the Commissioner, the Parliament and the Court of Justice of the European Union through regulations and directives, will be studied. The development of European substantive law through the jurisprudential development of the four freedoms will also be studied. This course will be offered face-to-face, hybrid, and online.

DERE 7087 Technology Transfer

Two credits.

Discussion and analysis of the basic concepts of technology and its importance in the legal and corporate world. Contractual relationships relating to the various methods of technology transfer. Evaluation of various forms and ways of exchanging technology. Sources of funding for technological innovation. The role of the lawyer in transfer processes, both

nationally and internationally. The role of government as a regulator and as an enabler of technological innovation. Study of the legal system with respect to technology transfer.

DERE 7101 Workshop for the Drafting of Legal Briefs

Two credits. One hour of lecture and one hour of discussion per week.

Prerequisite: For JD program: Seminar.

Correct: For LL.M. program: Seminar.

With an emphasis on research projects for the Master's Final Project (LL.M.) and on seminar work already completed, the workshop aims to guide the student in the preparation of a publishable quality legal brief. The workshop will take as its starting point a previous research substantially completed by each student and will be oriented towards the writing of a substantial writing in which an adequately substantiated argument is sustained. Emphasis will be placed on such things as organizing writings, outlines, drafts, and strategies for clear and persuasive writing. This course will be offered in face-to-face, hybrid and online modalities.

DERE 7106 Copyright

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7007 and DERE 7016 Explores in detail the legal protection of copyright in its patrimonial and moral dimension according to federal and Puerto Rican legislation, as well as its theoretical foundations. It examines what constitutes a work and the requirements necessary for its protection, as well as the ownership and transfer of rights, the scope of protection, as well as its limitations, exceptions, criteria for judicial evaluation to determine violations and remedies available in the courts. It also considers copyright at the international level.

DERE 7108 Introduction to Intellectual Property

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7007 Course designed to familiarize the student with basic concepts and doctrines for the protection of intellectual property including patents, trademarks, copyrights, self-image rights and trade secrets. The course is aimed at students who wish to be exposed to intellectual property law and the impact that such protection has on other interests such as free competition and freedom of expression. This course will be offered face-to-face, hybrid, and online.

DERE 7109 Patent Law

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7007 This course is designed for students with no prior experience or knowledge in the area of patents, including those students who do not have a technical background. The course seeks to provide students with a basic understanding of patent law and the patent system of the United States of America. The course discusses the theory and public policy of the patent system, as well as the requirements imposed to obtain a patent such as the requirement of eligibility, utility, novelty, non-obvious, and the

requirement of disclosure and teaching.

DERE 7115 Public International Law

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

Study of the historical developments, basic concepts, institutions and structures and main processes of public international law. Its incorporation into the law of Puerto Rico and the United States. Its effects on domestic law legislation and jurisprudence. This course will be offered face-to-face, hybrid, and online.

DERE 7116 Payment Systems

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: DERE 7016 Study of the regulation of means of payment execution. It includes examination of negotiable instruments, bank deposits and collections, transfers of funds, letters of credit, warehouse receipts, consignment notes, and other documents of title. The rights and responsibilities of the parties to a promissory note, check, and other negotiable instruments are discussed. In addition, regulation regarding the use of credit cards, electronic funds transfers and other payment systems is examined. This course will be offered face-to-face, hybrid, and online.

DERE 7124 Intersection of Race, Gender and the Law in Puerto Rico

Two credits. Two hours of lecture per week In this course we will study the intersection between race, gender, and law in Puerto Rico. The experience of black and Afro-descendant women is very different in Puerto Rico due to the construction of racial and gender identities and the prevailing colorism in our society. By looking at these issues from a variety of different angles, focusing our attention on Black women's legal understanding and consciousness, the course seeks to promote a deeper understanding of the complex interactions between law, race, and gender in order to formulate interdisciplinary anti-racist proposals. The course will study law, jurisprudence, and interdisciplinary readings with narratives and first-person readings of history, anthropology, and cultural criticism.

DERE 7301 Revista Jurídica Mercantil I

One credit Prerequisite: 31 approved credits Training and practice in the writing and editing of monographic and bibliographic notes.

DERE 7302 Revista Jurídica Mercantil II

One credit Prerequisite: 31 credits passed Training and practice in the writing and editing of monographic and bibliographic notes, part two.

DERE 7309 Media Law

Three credits. Two hours of lecture per week.

Study and analysis of the legal system applicable to the mass media. The main topics studied include: freedom of speech and of the press and the limits of government regulation; legal problems arising from communication, including defamation and the protection of privacy; legal issues related to the procurement of news, in particular the privilege of journalists and access to information. This course will be offered in face-to-face, hybrid and online modalities.

DERE 7508 Secured Transactions

Three credits.

Prerequisite: DERE 7016 Study of movable collateral: movable lien, purchase and sale of accounts and financial paper, and consignment. It discusses its creation, completion, enforcement and the rights, liabilities and remedies available to debtors and creditors. The rules relating to priority conflict issues are discussed. Evaluation of the effectiveness of the regulation and the possibilities of harmonization with other relevant legal provisions. This course will be offered face-to-face, hybrid, and online.

DERE 7509 Antitrust Practices Legislation

Three credits.

Federal antitrust laws are studied in a twofold way: (1) in their structure, content, and general interpretation, as well as in their direct application to Puerto Rican commerce and commerce between Puerto Rico and the United States; and (2) their significance as precedents of Puerto Rican legislation, which is covered simultaneously in the study of the various proscribed practices. The problems of unfair competition are approached from the point of view of private law as a basis for the study of the prohibition of unfair methods of competition, as a function of public law, a matter that is analyzed both under the law of the *Federal Trade Commission* and under state legislation.

DERE 7516 Insurance

Three credits. Three hours of lecture a week.

Insurance theory with particular emphasis on Puerto Rico's problems. The Puerto Rico Insurance Law and the jurisprudence of Puerto Rico and the United States on insurance matters are studied. This course will be offered face-to-face, hybrid, and online.

DERE 7517 Trusts

Two credits.

Study of the Anglo-American trust and its possibilities in civil law jurisdictions.

DERE 7518 Tax Law

Four credits.

General principles of public finance. Jurisdiction and limitations under federal, state, and insular systems. Substantive and procedural aspects of taxes imposed on property, inheritance, and income and excise duties in Puerto Rico. This course will be offered face-to-face, hybrid, and online.

DERE 7519 Accounting and Law

Two credits. Two hours of lecture per week. General Accounting Principles. Sources, Nature, and Presentation of

financial data. Interpretation and use of models with special reference to the legal profession.

DERE 7520 Taxation of Corporations and Partnerships

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

Prerequisite: Tax Law (DERE 7518) Study of the main aspects of corporate taxation in Puerto Rico of corporations and partnerships and their respective shareholders and partners. The various aspects are covered by means of a textbook, completed by the Internal Revenue Code of Puerto Rico, judicial decisions and practical problems.

DERE 7527 Social Legislation

Three credits: three hours of lecture per week.

Study of federal wage and hour legislation and its interaction with wage and hour legislation enacted by the Commonwealth of Puerto Rico. Examination and analysis of the law on unjustified dismissal on Seventh Working Mothers' Day, the closure of the establishment and the procedural problems related to compliance with social legislation in this area.

DERE 7530 Bankruptcies

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

Prerequisite: DERE 7016 Prerequisite: Theory of Obligations and Contracts (DERE 7016)

Study of the federal bankruptcy code, its fundamental principles, and its application to businesses and individuals in Puerto Rico. Examination of jurisprudential aspects, the rights of creditors and debtors, full liquidation under Chapter 7, and commercial and individual reorganizations under Chapters 11, 12 and 13. I am a student

and critical analysis of the various processes of a bankruptcy case, including the commencement of the voluntary and involuntary cases, the automatic suspension of collections, the use of and the alienation of the ownership of the estate, the assumption or rejection of perfected contracts, the annulment of transfers of the ownership of the estate, exempt property and other issues of interest in our society.

DERE 7535 Labor Law

Study of the process of historical development of the discipline with a view to a better understanding of its current problems. Dynamic comparative analysis of the interaction of the national labor relations law and the labor relations law of Puerto Rico. Special attention is given to problems related to the appointment of representatives for the purpose of business collectively, the activities of labor organizations and employers in labor disputes, collective bargaining, legal and contractual mechanisms for settling labor-management disputes, and relations between unions and their members.

DERE 7539 Natural Resources Legislation

Three credits. Three hours of lecture per week: The problem of natural resources and their factual situation will be studied; existing legal and administrative structures for conservation, planning, use and resource preservation; their adequacy and recent legal trends in this field. This course will be offered face-to-face, hybrid, and online.

DERE 7545 History of Puerto Rican Law

Three credits. Three hours of lecture a week.

Study of the background of Puerto Rican law. Indian law. Analysis of Judicial Institutions during the Nineteenth Century. The administration of justice and law during the period of U.S. military rule (1898-1900). Detailed examination of the historical origins of the U.S. Provisional Court in Puerto Rico (federal court) 1898-1900. Binisecular constitutional changes (regime of the autonomous constitution of Puerto Rico). This course will be offered face-to-face, hybrid, and online.

DERE 7546 Special Contracts

Three credits.

Typicality in hiring. Progress towards typicality, especially on the basis of pre-contracts, options and promises. Regulation of contracts of sale, exchange, lease, mandate, loans, deposits, bonds, insurance, random contracts, contracts on property by reason of marriage. The gestation of other people's businesses and the collection of the undue. Compromise and arbitration. Unjust enrichment.

DERE 7547 Private International Law

Three credits.

Doctrines on private international law, and on the guidelines that should govern the selection of the positive norm applicable in cases involving more than one legal system. Attitude of the legal system in Puerto Rico. Details, both in terms of doctrine and in terms of Puerto Rico's positive law, on the cases that most frequently give rise to conflicts of law: problems of jurisdiction and competence, marriage, divorce, guardianship, regulation of movable and immovable property, inheritance, conclusion and performance of contracts, prescription of rights and actions, application of foreign judgments, tort, etc.

DERE 7556 Notarial Practice I

Three credits. Three hours of lectures a week.

Prerequisite: 31 credits passed and DERE 7035 This introductory course in notarial law covers not only the theoretical bases of this branch of law, but also the way in which this subject is regulated in the current legal system. The role of the notary as a legal professional will be studied. The requirements and characteristics of all notarial documents will be studied, with special emphasis on the public instrument, both from its theoretical perspective and the way in which it should be prepared, without going into the details of the legal business of each instrument. The professional ethics of the lawyer will be studied from the perspective of the notary. This course will be offered face-to-face, hybrid, and online.

DERE 7558 Notarial Practice II

Three credits. Three hours of lecture a week.

Prerequisite: 31 credits passed, DERE 7077 or DERE 7556 This course studies the notarial form of public instruments and testimonies and their content in civil contracts. The course covers non-contentious matters before a notary where they will be analysed and drafted. The main businesses and contracts of a civil nature will be discussed, with special emphasis on the notarial form and the notarial obligations that arise on the occasion of them. Each student will form and bind their protocol in accordance with the notarial law and its regulations. The course will discuss and analyze problems of a civil nature that a notary may face in the exercise of the profession and such problems will serve as a tool for the process of learning business and civil contracts, deepening the knowledge acquired in an introductory way in the Notarial Practice I course.

DERE 7566 Law and Poverty

Three credits.

Examination of the main problems of the indigent that have or could be solved by legal means, in order to discuss the causes that prevent the law from serving the needy. As a consumer, as a tenant, as a citizen with civil rights guaranteed by the constitution, and as a recipient of social justice and public welfare programs, the homeless face problems that could be solved legally but are currently largely unsolved by law. The issues at hand and applicable laws will be considered in the course. The failures of these and the system will be discussed in search of effective solutions.

DERE 7669 Law & Literature

Three credits. Three hours of lecture a week.

Study of the relationship between law – in its broad aspects – and literature. Appreciation and understanding of various aspects of legal life as objectified and seen through storytellers, poets, playwrights, novelists, and essayists. The literary vision of law. Examination of the cultural values of humanity as a necessary source of knowledge for jurists. An opportunity for the law student and the lawyer to understand, study, and to

understand, study and examine human nature, as observed and exposed in the literature, which will help him in the realization of value judgments inherent to the legal profession.

DERE 7570 Therapeutic Jurisprudence

Three credits. Three hours of discussion a week.

Examination of the main tenets of therapeutic jurisprudence, a perspective that sees law (the rules, legal procedures, and roles of lawyers and judges) as a potential therapeutic agent. Study of the impact of the law on emotional life and psychological well-being. Discussion of legal reform measures and how lawyers, judges, and others can apply existing law in a more therapeutic way. This course will be offered face-to-face, hybrid, and online.

DERE 7575 Appellate Forensic Practice

Two credits.

Preparation and presentation to the court of specific cases assigned individually. Total number of times to be repeated up to a maximum of 10 credits. No more than 46 elective credits may be considered for the degree. No student will be able to repeat a course with the same code if it contains the same subtopic. That is, the credit repetition is only for courses in different subtopics, and not for courses that are exactly the same, but offered in different semesters.

DERE 7578 History of Puerto Rico's Constitutional Law

Three credits. Three hours of lecture a week.

Historical legal study of the constitutional development of Puerto Rico from 1812 to 1975.

DERE 7585 Ethics and Professional Responsibility

Three credits. Three hours of lecture a week.

Prerequisite: Regular law students in their second or third year.

The course aims to explore, using methods from psychology, the attitudes and problems that conflicts in the practice of the profession produce in lawyers.

DERE 7730 Alternative Dispute Resolution Methods

Two credits. Two hours of lecture per week.

Study of modern trends towards the development and implementation of alternative methods of dispute resolution ("ADR") other than judicial trial: arbitration and mediation in its labor, commercial, international, matrimonial, negotiation, transaction, among other methods.

DERE 7991 Special Private Law Topics

One to four credits Analysis of special areas of particular relevance in the field of private law. Total number of times to be repeated up to a maximum of 15 credits. No more than 46 elective credits may be considered for the degree. No student will be able to repeat a course with the same code if it contains the same sub-topic. That is, the credit repetition is only for courses in different sub-subjects, and not for courses that are exactly the same, but offered in different semesters.

DERE 7996 Special Public Law Topics

One to four credits.

Analysis of special areas of particular relevance in the field of public law. Total number of times to be repeated up to a maximum of 15 credits. No more than 46 elective credits may be considered for the degree. No student will be able to repeat a course with the same code if it contains the same sub-topic. That is, the credit repetition is only for courses of different sub-topics and not for courses that are exactly the same, but offered in different semesters. In-person, hybrid, and online.

DERE 7741 Conflict Mediation I

Two credits. Two hours of seminar are held a week.

Prerequisite: DERE 7017 Course aimed at developing the skills necessary to conduct effective mediations in a range of disputes. It considers and compares the various alternative and conflict methods, negotiation mechanisms, psychosocial aspects pertinent to mediation, the historical background, the legal basis and stages of the facilitative model of mediation, the handling of domestic violence cases, and finally, ethical and professional responsibility considerations. These topics are developed through interactive and application exercises. Students who satisfactorily pass the Conflict Mediation I and II courses may be certified as a mediator, subject to compliance with other requirements established in the relevant regulations of the Supreme Court of Puerto Rico.

DERE 7742 Conflict Mediation II

Two credits. Two hours of seminar per week.

Course aimed at developing the skills necessary to carry out effective mediations in a range of disputes. It considers and compares the various alternative and conflict methods, negotiation mechanisms, psychosocial aspects pertinent to mediation, the historical background, the legal basis, and the stages of the facilitative model of mediation, the handling of domestic violence cases, and finally, ethical and professional responsibility considerations. These topics are developed through interactive and application exercises. Students who satisfactorily pass the Conflict Mediation I and II courses may be certified as a mediator upon compliance with other requirements established in the relevant regulations of the Supreme Court of Puerto Rico.

SEMINARS:

Seminars on specialized topics in each area of law constitute a fundamental component of legal education, as they provide the student with the opportunity to study and research in depth a topic of interest to them under the supervision of a faculty professor. In addition, they allow for careful research leading to the writing of an extensive monograph.

The seminars at our school address various topics under each area of law under which they are developed, as indicated in their description. The professor in charge of the seminar will

announce the topic to be studied in the class program of the semester in which it is offered. Enrollment for each seminar is limited to a maximum of 15 students to facilitate intense discussion of complex legal issues. All students must take a minimum of four (4) credits in seminars as a requirement of the degree. In each seminar, the student must write an extensive monographic essay as a requirement for approval. Each seminar may be repeated up to a maximum of four times (a maximum of eight (8) credits), as long as the topics covered by the seminars are different. Here's an overview of the seminars offered at the school.

DERE 7597 Seminar: Topics in Administrative Law

Two credits. Two hours of seminar per week.

Study of complex issues of administrative law. The following shall be addressed, among others: (a) rights and procedures related to particular administrative agencies; (b) the exercise of the agencies' powers and their review; (c) immigration problems; (d) regulation of private sector institutions, processes or products; (e) law, planning and urban planning; (f) comparative administrative law; (g) Problems of administrative law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7600 Topics in Criminal Law

Two credits. Two hours of seminar are held a week.

Study of complex criminal law issues. The following will be addressed, inter alia: (a) the general part of criminal law; (b) specific offences; (c) different penal systems in different legislations; (d) administration of criminal law; (e) comparative criminal law; (f) criminal law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7630 Seminar: Topics in Commercial Law

Two credits. Two hours of seminar per week.

Study of complex issues of Commercial Law. The following will be attended, among others: (a) insurance in general; (b) trade finance; (c) international trade relations; (d) insurance in general; (e) property and contingency insurance; (f) life insurance; (g) negotiable instruments; (h) Comparative Commercial Law; (i) regulation of financial markets; (j) Commercial Law in general. The specific topic to be studied in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different. This course will be offered face-to-face, hybrid, and online.

DERE 7667 Seminar: Topics in Legal Theory

Two credits. Two hours of seminar per week.

Study of complex topics of legal theory. The following will be addressed, among others: a) the philosophical-legal work of specific authors; (b) specific legal movements or schools of thought; (c) theories on particular aspects of legal order; (d) the judicial process; (e) law and literature; (f) ethics, morality and justice and the legal profession; (g) law and social theory; (h) feminist theory; (i) theory of law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7676 Seminar: Topics in Environmental Law

Two credits. Two hours of seminar per week Study of complex issues of environmental law. The following will be addressed, among others: (a) specialized legislation for the protection of the environment; (b) environmental protection and economic development; (c) methods, processes and remedies, substantive and procedural, for the protection of natural resources, ecology and the environment; (d) comparative environmental law; (e) international environmental law; (f) Environmental law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different. This course will be offered face-to-face, hybrid, and online.

DERE 7678 Seminar: Topics in Civil Law

Two credits. Two hours of seminar per week.

Study of complex issues of civil law. The following will be addressed, among others: (a) the individual and the family; (b) the problems and rights of minors; (c) domestic violence and other contemporary problems; (d) the right to property; (e) the law of contracts and obligations; (f) inheritance law; (g) non-contractual civil liability; (h) private international law; (i) The preliminary title of the Civil Code; (j) comparative civil law; (k) registration law; (l) intellectual property law; (m) Civil law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7680 Seminar: Topics in Constitutional Law

Two credits. Two hours of seminar per week.

Study of complex issues of constitutional law. The following shall be addressed, inter alia: (a) the organization of the powers of the State; (b) the right of expression; (c) the relationship between church and state and freedom of worship; (d) constitutional relations between Puerto Rico and the United States; (e) due process of law; (f) freedom of the press; (g) equal protection of the law; (h) constitutional theory; (i) the institutions and processes of the legislature; (j) comparative constitutional law; (k) federalism and constitutional structure; (l) specialized legislation on civil rights and individual freedoms; m) problems of constitutional law litigation; (n) constituent processes - experiences,

problems and solutions; (o) Constitutional law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits) as long as the theme is different.

DERE 7686 Seminar: Topics in International Law

Two credits. Two hours of seminar per week.

Study of complex issues of international law. The following shall be addressed, inter alia: (a) customary and contractual rights between States; (b) international economic transactions; (c) international protection of human rights; (d) Rights between Caribbean States and peoples; (e) economic and political communities; (f) the fundamental concepts of international law; (g) International law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different. This course will be offered face-to-face, hybrid, and online.

DERE 7688 Seminar: Topics in Criminal Procedural Law

Two credits. Two hours of seminar per week.

Study of complex issues of criminal procedural law. The following shall be addressed, inter alia: (a) constitutional protections in criminal proceedings; (b) criminal proceedings under Puerto Rican rules; (c) criminal procedure under federal rules; (d) enforcement of sentences and rights of prisoners; (e) comparative criminal procedural law; (f) Criminal procedural law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7689 Seminar: Topics in Tax Law

Two credits. Two hours of seminar per week.

Study of complex tax law issues. The seminar will address the following topics: a) taxation of individual income; (b) taxation of corporations and shareholders; (c) taxation of relict estates and donations; (d) fiscal policy; (e) comparative tax law; (f) Tax law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7690 Seminar: Topics in Advanced Legal Research

Two credits. Two hours of seminar per week.

Study of complex legal issues. The following will be addressed, among others: (a) research on the legal profession; (b) empirical legal research; (c) research on the regulation of professional conduct; (d) research on comparative legal systems; (e) research on legal systems or traditions of the world; (f) Advanced legal research in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing

of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the theme is different

DERE 7696 Seminar: Topics in Labor Law

Two credits. Two hours of seminar per week.

Study of complex issues in labor law. The following will be attended, among others:

(a) organization of workers' unions; (b) collective bargaining; (c) guarantees for non-union workers; (d) unemployment; (e) labour legislation in different legal systems; (f) public sector labour organization; (g) comparative labour law; (h) Employment: problems, legislation and public policy; (i) Labour law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7698 Seminar: Topics in Law and Society

Two credits. Two hours of seminar per week.

Study of complex issues of law and society. The following will be addressed, among others:

(a) law and poverty; (b) social security programmes and the rights of beneficiaries; (c) housing; (d) the right to health; (e) law and mental health; (f) law and social change; (g) the right of the elderly; (h) law and education; (i) law and technology; (j) Law and society in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.



Mailing address: UPR School of Law, 7 Ave. Universidad Ste. 701, San Juan PR 00925-2527

Phone: (787) 999-9675

Email: llm-online.derecho@upr.edu **Portal:**
<https://derecho.uprrp.edu/llm-online>

Mailing address: UPR School of Law, 7 Ave. Universidad Ste. 701, San Juan PR 00925-2527

DEGREE: Master of Laws (LL.M.) in Orality in the Online Criminal Accusatory System

The School of Law offers the Master of Laws (LL.M.) in Orality in the Criminal System Online with the aim of developing jurists with the necessary skills for the adjudication of justice in the Judicial Branch and in the adversarial system. It consists of 24 credits that the student can complete in one (1) or two (2) years depending on their study plan, full-time or part-time.

The experience developed in the Puerto Rican jurisdiction in the criminal accusatory system, the protection of the constitutional guarantees that cover the process, and the legal responses to conflicts that arise in order to maintain a balance between the presentation of evidence and the search for the truth, make our system a prototype to be studied by jurists from other jurisdictions. The developments, successes and failures are of interest from the reformist perspective aimed at orality that characterizes many jurisdictions in Latin America.

The program provides the opportunity to study in depth the evidentiary and criminal procedural law of the accusatory system. The curriculum design maintains a balance between the study of the Puerto Rican legal and criminal system and the development of litigation skills. In addition, participation in legal research seminars fosters a structured approach to the legal problems and solutions that arise in this context, as well as the development of the research and writing skills so necessary for litigants and judges. Recurring themes in different jurisdictions are highlighted, such as safeguarding constitutional rights, the challenges of presenting evidence, and the search for truth.

ACCREDITATIONS:

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Javier O. Sepúlveda Rodríguez, Secretary of the Supreme Court of Puerto Rico, Adjunct Professor, UPR School of Law, LL.M. University of Puerto Rico, JD Inter-American University of Puerto Rico

Jorge Toledo Reyna, Judge of the Court of First Instance of Puerto Rico, Adjunct Professor, UPR School of Law.

Aleida Varona Méndez, Former Judge of the Court of Appeals of Puerto Rico, Adjunct Professor at the UPR School of Law.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Have obtained the Juris Doctor from an institution accredited by the American Bar Association (ABA), the bachelor's degree or equivalent degree in Law, with an average of B or higher, or its equivalent from a foreign university educational institution, which is based on high academic standards and is fully recognized by the state authorities of the country in which it is located. The time limit for completing all degree requirements is one year full-time and two years part-time.
2. Have a command of the Spanish language and the ability to read and understand the English language. Proficiency in Spanish or English may be demonstrated if the student demonstrates that he or she has studied in one of these languages at a duly accredited university. Special attention will be paid to reading and comprehension skills in English and Spanish.
3. It is highly recommended that the applicant has at least two to three years of previous work experience in the field of law.
4. Have a computer with high-speed internet access or mobile device with data service and sufficient capacity to play multimedia material, and have the necessary skills to use it as a work tool. It should also have built-in or external speakers and webcam or mobile with camera and microphone.

Required Documents for the Application for Admission

All applicants must submit the following documentation as a requirement for admission:

1. Complete the Law School Admission Application through the Río Piedras Campus Electronic Graduate Admissions System. It must be submitted no later than the required dates, according to the study session you want.
2. Evidence of having obtained a *Juris Doctor*, a bachelor's degree, or equivalent degree in Law, as described in the specific requirements.

3. Two (2) official transcripts of all university credits approved or validated by the institution of origin. The applicant must request that the university where the law degree or *Juris Doctor* was completed send the official sealed transcripts directly to the LL.M. Online Master's Program of the University of Puerto Rico School of Law. In those cases where the university of origin is not one accredited by the ABA, the transcripts must be duly authenticated and apostilled by the competent authorities of the country of the issuing university.
4. Two (2) letters of recommendation, at least one of which must be academic, describing in detail the applicant's academic qualifications, professional experience, and character.
5. *Curriculum Vitae*.
6. Personal statement including background and personal profile, motivations for studying for a master's degree in law, areas of interest, and career plans.
7. Application Payment.

Once the applicant meets these requirements, their admission will be conditional on an evaluation process.

GRADUATION REQUIREMENTS:

Comply with the general graduation requirements in force at the Río Piedras Campus. In addition, students must meet the specific requirements of the Master of Laws (LL.M.) program in Orality in the Criminal Accusatory System online.

- Have passed a minimum of 24 credit hours of the Program at the School of Law with an index of 3.0 points on a 4.0 scale.
- The time limit for completing all degree requirements is one year for full-assignment studies and two years for part-assignment students.
- Take at least two seminary courses in which it is required to prepare a written paper.
- Comply with the attendance standards established by the School of Law.

PROGRAM OF STUDY:

The Master of Laws (LL.M.) Online in Orality in the Criminal Accusatory System is designed for one (1) year of full-assignment and twenty-four year of full-assignment studies (24) credit hours. Considering that the Program is aimed at practicing professionals, it is foreseeable that you will be interested in studying it part-time for two (2) years.

The curriculum design provides a balance between courses aimed at the study of the Puerto Rican accusatory and oral criminal system from a comparative perspective and courses aimed at the development of litigation skills.

Program Requirements	Credits
DERE 7101 Workshop for the Drafting of Legal Briefs	2
DERE 7102 Initiation, Development and Conclusion of Criminal Proceedings in the Court of First Instance	3
DERE 7103 Structures and Processes of Anglo-American Law and their Interaction with Civil Law	2
DERE 7123 Seminar: Due Process of Law and its Jurisprudential Development in the Accusatory System	2
DERE 7124 Electronic Evidence	2
DERE 7125 Drafting of Judgments	2
DERE 7126 Theory, Doctrine, and Practice of Litigation	3
DERE 7206 Forensic Litigation: Basic Criminal Litigation Skills I	2
Total	18
Elective Courses	Credits
DERE 7122 Seminar: Legal Aspects of Human Trafficking	2
DERE 7201 Direct Examination and Cross-Examination	2
DERE 7208 Gender-Based Violence Litigation, Civil and Criminal Remedies	2
DERE 7210 Seminar: Human Rights in Criminal Procedure	2
DERE 7211 Adjudication Theory	2
Total	10

COURSE DESCRIPTION:

The course descriptions below are the latest recorded in the Student Information System of the Río Piedras Campus Registrar's Office as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

The courses are organized in numerical order according to their codes. This order does not correspond to the sequence in which it is recommended to take the courses.

DERE 7101 Workshop for the Drafting of Legal Briefs

Two credits. One hour of lecture and one hour of discussion per week. Prerequisite: For JD program: Seminar Correctness: For online LLM program: Seminar With an emphasis on research projects for the Master's Final Project (LL.M.) and on completed seminar papers, the workshop aims to guide the student in the preparation of a quality legal brief that can be published. The workshop will take as its starting point a previous research substantially

completed by each student and will be oriented towards the writing of a substantial writing in which an adequately substantiated argument is sustained. Emphasis will be placed on such things as organizing writings, outlines, drafts, and strategies for clear and persuasive writing.

DERE 7102 Initiation, Development and Conclusion of Criminal Proceedings in the Court of First Instance

Three credits. Three hours of lecture a week.

The course will deal with the theory and practice of the criminal judicial process in the courts of First Instance in Puerto Rico as a reference for the study of a criminal system based on orality. Through the study of the procedural stages, the principles, norms and elements that govern the criminal process will be examined in order to understand how the rights of the accused and the search for the truth have been incorporated in the presentation of evidence. Through a representative selection of Supreme Court opinions, the conflicts that have arisen around the criminal process will be studied by the Supreme Court's responses.

DERE 7103 Structures and Processes of Anglo-American Law and their Interaction with Civil Law

Two credits. One hour of lecture and one hour of discussion per week. Examination of the main institutions, structures, and processes of Anglo-American law and their interaction with civil law in the context of Puerto Rican legal culture. An overview of the Anglo-American institutions present in Puerto Rico, the historical and social process that introduced these institutions in Puerto Rico, the natural tensions that sometimes produced their arrival and the way in which they have evolved.

DERE 7124 Electronic Evidence

Two credits. One hour of lecture and one hour of discussion per week. Prerequisites: For JD program, DERE 7026 Correquisites: For online LLM program, DERE 7026 or validation of procedural course at a foreign university.

Technology has impacted the way members of society communicate. For that reason, evidence is continually created on electronic and digital devices without knowing the impact that this evidence has on the controversies that end up in court. This course studies the concept of electronic evidence, its impact on the presentation of evidence in court, and the rules of evidence on authentication that allow its presentation and admission in court in plenary trials. Upon completion of the course, the student will be able to identify electronic evidence and apply the rules of evidence on authentication for admission to court.

DERE 7125 Drafting of Judgments

Two credits. One hour of lecture and one hour of discussion per week.

Prerequisites: For JD program, DERE 7017.

Corequisites: For online LLM program, DERE 7068 or validation of equivalent course at a foreign university.

This course will analyze the process of drafting the judgment and all its stages: the deliberative stage, the legal research stage, the process of interpretation of the legal norm and precedent and its application, the legal argumentation, up to the reading and preparation of the final judgment brief. They will analyze the judgment and its essential parts in the oral system and develop a model outline of the judgment in your jurisdiction, which meets all the essential requirements of the judgment in the country, state, or jurisdiction that applies. Participants will have the opportunity to reflect on the requirements of the judgment of their jurisdiction, particularly with regard to the duty to state reasons and reasons.

DERE 7126 Theory, Doctrine, and Practice of Litigation

Three credits. One hour of lecture and one hour of discussion per week. Prerequisites: For JD program, DERE 7026 Corequisites: For online LLM program, DERE 7026 or validation of procedural course at a foreign university.

The course in which the cognitive skills that allow the student to "learn from experience" are developed. Special emphasis is given to the development of modern interrogation techniques. Both in direct examination and cross-examination. Refreshes and perfects the offering of evidence, the challenge and rehabilitation of witnesses, and oral argumentation. This course is designed to help lawyers link theory with practice. Although it is said that the function of "advocating" in the various forums carries with it an element of innate talent and artistry when exercised effectively, we firmly believe that as in the case of music, painting, sculpture and other arts, the basic skills of litigation can be taught. It is up to the discretion, commitment, talent and ability of the lawyer as well as the artist to develop and practice them.

DERE 7201 Direct Examination and Cross-Examination

Two credits. One hour of lecture and one hour of discussion per week. Prerequisites: For JD program, DERE 7026 Corequisites: For online LLM program, DERE 7026 or validation of procedural course at a foreign university.

In this course you learn how to conduct direct and counter-interrogations that are effective and persuasive, through lectures, demonstrations, simulations and practical exercises. You will study and practice how to prepare for and conduct direct questioning and cross-examination. Different ways and techniques of cross-examining the witness with open-ended questions in direct examination will be discussed and practiced, and how to anticipate and prepare the witness to face cross-examination. Different strategies and techniques for controlling and cross-examining a witness by means of suggestive questions in cross-examination and how to challenge the witness with previous statements will also be analysed and practiced.

DERE 7206 Forensic Litigation: Basic Criminal Litigation Skills I

Two credits. One hour of lecture and one hour of discussion per week. Prerequisites: For JD program, DERE 7026 Corequisites: For online LLM program, DERE 7026 or validation of procedural course at a foreign university.

The course is aimed at developing and strengthening basic litigation skills in the criminal area. A balance will be established between the theoretical discussion of the rules of evidence applicable to the litigation process and the practical aspects of the development of skills when applying. The issues will be analysed from the perspective of the litigant and from the perspective of the adjudicator. The aspects of Evidentiary Law and Criminal Procedure will be based both on the legal system of Puerto Rico and on the jurisprudence of the Supreme Court of the United States of America as a frame of reference for the analysis of the topics of the course. The course may include procedural aspects from other jurisdictions as required.

DERE 7208 Gender-Based Violence Litigation, Civil and Criminal Remedies

Two credits. One hour of lecture and one hour of discussion per week. Prerequisites: For JD program, DERE 7015 or equivalent validation, DERE 7008 or equivalent validation, and DERE 7068 or equivalent validation. Corequisites: For online LLM program, DERE 7026 or validation of procedural course at a foreign university.

This course will delve into the social and legal aspects of gender-based violence and reinforce the development of litigation skills based on an understanding of the problem and the ethical dilemmas it may involve. Legislation approved to address social problems and the context of their development will be studied. In addition, the study of Act No. 54 of 15 August 1989, the Act for the Prevention and Intervention with Domestic Violence and the jurisprudence that has interpreted it. The Law will be analyzed from its civil and criminal dimensions, its application and interpretation. Innovative strategies that have distanced themselves from the traditional responses of the judicial system to address this serious social problem will be studied. Mock hearings will be held for litigation of different kinds (civil and criminal). Oral presentations will be made and a final paper will be worked on.

DERE 7211 Adjudication Theory

Two credits. One hour of lecture and two hours of discussion per week. Prerequisite: For JD program: DERE 7039 or validation of procedural course at a foreign university.

Correctness: For the LLM Online program: DERE 7039 or validation of a procedural course at a foreign university.

The first part of the course will examine a selection of the work of leading Western jurists who have dealt with problems related to the judicial function. The second part will identify the way in which the theoretical problems discussed in the first part of the course have manifested themselves in the Puerto Rican legal system.

SEMINARS:

Seminars on specialized topics in each area of law constitute a fundamental component of legal education, as they provide the student with the opportunity to study and research in depth a topic of interest to them under the supervision of a faculty professor. In addition, they allow for careful research leading to the writing of an extensive monograph.

The seminars at our school cover a variety of topics under each area of law in which they are held, as indicated in their description. The professor in charge of the seminar will announce the topic to be studied in the class program of the semester in which it is offered. Enrollment for each seminar is limited to a maximum of 15 students to facilitate intense discussion of complex legal issues.

All students must take a minimum of four (4) credits in seminars as a requirement of the degree. In each seminar, the student must write an extensive monographic essay as a requirement for approval. Each seminar may be repeated up to a maximum of four times (a maximum of eight (8) credits), as long as the topics covered by the seminars are different.

The following is an overview of the seminars offered for the Master of Laws (LL.M.) program in Orality in the Criminal Adversarial System online.

DERE 7122 Seminar: Legal Aspects of Human Trafficking

Two credits. One hour of lecture and one hour of discussion per week.

This seminar delves into the identification of human trafficking through a holistic, socio-economic perspective and its repercussions in some judicial cases of this underhanded and unidentified phenomenon. This crime involves a control that attempts, through fear, manipulation, coercion, or deception, to reduce forms of resistance and escape, through the weakening of wills (TIP Report, 2018). Unfortunately, these cases are not identified in our courts as a result of a lack of adequate information and classification of this crime. Therefore, it is proposed to explore the different forms that this modern slavery assumes, delve into its causes and visualize this market in the international, regional and Puerto Rican context. Its causes, conditions, socio-economic and legal implications would be part of the discussion.

DERE 7123 Seminar: Due Process of Law and its Jurisprudential Development in the Accusatory System

Two credits. One hour of lecture and one hour of discussion per week.

Prerequisites: For the JD program, DERE 7019 and DERE 7018.

Corequisites: For the online LLM program, DERE 7019 or validation of procedural course at a foreign university.

This seminar aims to introduce students to the paradigm that represents the conceptualization, implementation, and consolidation of the accusatory criminal justice system. The principles that govern the model will be studied from the constitutional perspective and the jurisprudential

doctrines developed in the United States and Puerto Rico. In addition, the emphasis of the course will be framed in the concept of due process of law as the central axis of the other constitutional guarantees, and from a perspective of the theoretical and practical knowledge necessary for the success of the reforms of the adversarial model in Latin America. On the other hand, it is also intended to address the standards of judicial review designed for the exercise of appellate practice in the guarantor criminal system.

DERE 7210 Seminar: Human Rights in Criminal Procedure

Two credits. One hour of lecture and one hour of discussion per week

Prerequisites: For the JD program: DERE 7115.

Corequisites: For the online LLM program.

The purpose of this seminar is to provide a comprehensive overview of international human rights standards applicable to criminal proceedings. It will also study the control mechanisms of international treaties available to claim such rights and their effectiveness. Cases will be analysed at the international and national levels to assess compliance with international obligations with regard to criminal procedure.



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DEGREE: Juris Doctor

ACCREDITATIONS:

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321 Clark Street Chicago, IL 60611
www.abanet.org/legaled

Association of American Law Schools (1944)
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JURIS DOCTOR

The study program leading to the degree of Juris Doctor consists of three years in the daytime session and four years in the evening session. To obtain the degree, students must pass a minimum of 92 credits in the School of Law with a minimum academic average of 2.00 points and meet the other requirements and other academic standards of the School of Law.

The Summer Session

Each summer, the School of Law offers courses aimed at achieving three objectives: to enable students in the evening program to complete their studies in four years; enrich the academic offer with lecturers and topics that are not normally available in the regular curriculum; and, to link the School's community with the best of the young legal talent that stands out in the world.

The Winter Session

The Law School holds a winter session in January. Distinguished law professors from different faculties around the world offer mini-courses on specialized law topics, which can be successfully treated during a week of intense work.

PROGRAMS WITH JOIN DEGREES WITH THE BACHELOR OF LAWS (JURIS DOCTOR)

Five programs are offered that give students the opportunity to earn another degree in conjunction with the Juris Doctor. These joint programs are made possible through the signing of a Collaborative Agreement between the Deans of the corresponding Schools.

Each School has a Coordinator who guides and facilitates the enrollment process and other procedures with the students of the Joint Program, to ensure compliance with the curriculum of each School. The Law School Coordinator will notify the Office of the Registrar of the names of students admitted to the Joint Program and those who withdraw from the Program, upon being informed of this.

It is a unique opportunity for students, who in less time can choose to finish with two degrees, providing them with a competitive advantage in the labor market. Savings in time and economic terms are achieved through the reciprocal validation of courses between the two Programs that have signed the Agreement. One student takes courses at one school and the other validates them, and vice versa. The number of courses that can be validated fluctuates according to the established Agreement.

Juris Doctor/Master of Business Administration from the University of Puerto Rico, Rio Piedras Campus

The University of Puerto Rico School of Law and the Graduate School of Business Administration (EGAE) offer a study program leading to the Juris Doctor and Master of Business Administration (JD/MAE) degrees concurrently. Students can complete the program in four years or five years, depending on whether you are a day or evening student. This represents a shorter time than the five or six years it would take to obtain both degrees separately and a saving in terms of money and courses that must be taken. Applicants must have been admitted to both schools, in accordance with the admissions rules and procedures of each. They can apply concurrently to both programs and decide which one to begin studies for, or they can apply to the second School or Program during the course of their first year at one of the Schools. If so, they will begin their studies at the other school in the next academic year (i.e., in their second year). The School of Law admits only in August of each academic year, while the EGAE admits also in January. A student who begins studies at the School of Law, or begins studies at the School of Law, during his/her second year from the EGAE, will remain the full year taking courses at the School of Law. The remaining years he will take courses from both Schools, until he completes both degrees. The student must complete both degrees in order to obtain their graduation diplomas, regardless of whether they first complete all the required courses in one of the Schools.

Juris Doctor/Doctor of Medicine, School of Medicine of the Medical Sciences Campus of the University of Puerto Rico

This program gives the student the opportunity to earn both degrees (JD/MD) in six years, instead of the seven years it would take to earn the degrees separately. Applicants must have been admitted to both schools, in accordance with the admissions rules and procedures of each. These schools only admit students in August. The curriculum in this Joint Program requires two years to remain in one of the Schools and another two in the second School. After completing these four years (two in Law and two in Medicine or two in Medicine and two in Law, depending on the School in which you begin studying), you will take courses at both schools for the remaining years. If you are admitted to both programs,

you must notify which of the two programs you will begin your studies in order to have your admission deferred for two years in the second program. The student may apply to both programs jointly or apply at any time after starting studies at either of the two Schools, as long as it is on the dates established for applying and before the third year of studies. This is because that third year would be the first year of study at the second school to which he applied for admission. The student is exempted from a semester of Clinical Law Studies, which will be replaced by clinical experience in Medicine. The student must complete both degrees in order to obtain his/her graduation diplomas, regardless of whether he/she first completes all the required courses in one of the Schools.

Juris Doctor/Master of Architecture from the University of Puerto Rico, Rio Piedras Campus

The University of Puerto Rico School of Law and School of Architecture offer a program of study leading to the degree of Juris Doctor and Master of Architecture (JD/MArch) concurrently. The program allows students to reduce the time it takes to obtain both degrees separately, thus stimulating their achievement. The School of Architecture has two academic offerings leading to the Master's Degree in Architecture: one for those who already hold a professional degree in Architecture and another for those who come from another academic discipline. Interested persons may apply concurrently to these programs and decide which one to begin studies for or may apply to the second School or Program, during the course of their first year in one of the Schools. If so, they will begin their studies at the second school in the next academic year (i.e., in their second year). The School of Law admits only in August of each academic year. A student who begins studies at the School of Law, or begins studies at the School of Law during his/her second year from the School of Architecture, will remain taking courses at the School of Law for the full year. The remaining years he will take courses from both Schools, until he completes both degrees. The student must complete both degrees in order to obtain his/her graduation diplomas, regardless of whether he/she first completes all the required courses in one of the Schools. Interested students must apply for and be admitted to both Schools in accordance with the admissions rules and procedures of each.

Juris Doctor/Master in Public Administration from the University of Puerto Rico, Rio Piedras Campus

The University of Puerto Rico School of Law and the Roberto Sánchez Vilella Graduate School of Public Administration (EGAP) offer a Joint Program of Studies leading to the Juris Doctor and Master of Public Administration degrees, the Juris Doctor and Master of Public Administration (JD/MAP) degrees. Students can complete the program in four years or five years, depending on whether they are day or evening students. This represents a shorter time than the five or six years it would take to obtain both degrees separately and a saving in terms of money and courses that must be taken.

Interested parties can apply concurrently to both Schools, Law and Public Administration, and decide which one they begin their studies for, or they can apply to the second School,

during the course of their first year in the first School to which they applied. If so, they will begin their studies at the second school to which they apply next academic year, that is, in their second year. The School of Law admits only in August of each academic year, while the Graduate School of Public Administration (EGAP) admits also in January. A student who begins studies at the School of Law, or begins studies at the School of Law during his or her second year from EGAP, will remain the full year taking courses at the School of Law. The remaining years he will take courses from both Schools, until he completes both degrees. The student must complete both degrees in order to obtain their graduation diplomas, regardless of whether they first complete all the required courses in one of the Schools.

Juris Doctor/Double and Triple Degree Program, University of Barcelona

The School of Law of the University of Puerto Rico and the Faculty of Law of the University of Barcelona have created a study program leading, jointly, to the Bachelor's Degrees in Law and Juris Doctor (Double Degree JD/Bachelor's Degree in Law) and, in addition, to the Master's Degree in Law of the University of Barcelona (Triple Degree). The Dual Degree program is available to students from both institutions, while the Triple Degree program is available only to students of the University of Puerto Rico. The latter provides access to the entrance exam to the practice of law in Spain

Exchange Programs

Starting in their second year, Law School students may choose to study one or two semesters at one of the institutions with which we have a student exchange agreement. Among the available options are: the University of Connecticut School of Law in Hartford, the University of Palermo School of Law in Buenos Aires, Argentina, the University of Chile School of Law in Santiago, Chile, the Diego Portales University School of Law in Santiago, Chile, or the University of Ottawa School of Law, in Canada. The tuition fee for students will be equal to what they pay at our School of Law. Approved courses will be credited to the degree.

Summer Program in Barcelona, Catalonia, Spain

The summer program gives students the opportunity to study law in Barcelona. It allows students to receive up to six credits for courses passed during the six weeks they study in Barcelona. The program has a comparative and international focus. Courses can be offered in English, allowing U.S. law students to participate. The program also offers the opportunity to intern and get hands-on experience at a law firm or government agency.

TEACHERS:

José Julián Álvarez González, LLM, 1978, Yale University; JD, 1977, University of Puerto Rico, Professor. Constitutional Law, Tort, Federal Jurisdiction; Comparative law.

Luis A. Avilés Pagán, BS, 1984, University of Puerto Rico; MA, 1986, J.D., 1992, Harvard University; LLM, 2011, Université de Paris II (Panthéon-Assas). Professor. Corporate Law, Energy and Law, European Union Law, Legal Aspects of International Business Transactions, The Legal Profession, Administrative Law Seminar, Corporate Law Seminar.

Rubén Berríos Martínez, Bachelor of Laws, 1966, LLM, 1965, LLB, 1964, Yale University; University of Oxford. Professor. Public International Law, Seminars in International Law, Seminars in Constitutional Law.

Ernesto Chiesa Aponte, J.D., 1974, MA, 1967, University of Puerto Rico. Professor and Distinguished Professor. Criminal Law, Criminal Procedural Law, Law of Evidence and Evidence, Seminar on Criminal Procedural Law.

Carmelo Delgado Cintron, MA, 1977, New York University; Doctor of Law, 1974, Complutense University of Madrid; LLB, 1966, University of Puerto Rico. Professor. History of Puerto Rican Law, History of Puerto Rican Constitutional Law, Law and Literature, Seminars on Advanced Legal Research.

Carlos Díaz Olivo, LLM, 1985, Harvard University; J.D., 1983, University of Puerto Rico. Professor. Companies and Corporations, Civil Procedural Law, Antitrust Laws, Seminars on Partnerships and Corporations.

Guillermo Figueroa Prieto, LLB, 1969, University of Puerto Rico. Professor. Ethics and Professional Responsibility, The Legal Profession, Law and Sport, Seminar on Ethics and Professional Responsibility.

Erika Fontáñez Torres, LLM, 2002, London School of Economics and Political Sciences; J.D., 1999, University of Puerto Rico; Ph.D., 2017, Universitat Autònoma de Barcelona. Professor. Natural Resources Legislation, Theory of Obligations and Contracts, Environmental Law Seminars, Legal Theory Seminar.

Antonio García Padilla, LLM, 1981, Yale University; J.D., 1978, University of Puerto Rico. Professor and Dean Emeritus. Civil Procedural Law, Commercial Law.

Chloé S. Georas Santos, BA, 1987, University of Puerto Rico; M.A. 1997, State University of New York, JD, 2004, New York University; LLM, University of Ottawa. Professor. Legal Aid Clinic.

Michel J. Godreau Robles, Doctor of Juris, 1969, University of Munich; LLB, 1965,

University of Puerto Rico; Professor. Real Rights, Theory of Obligations and Contracts, Special Contracts, Condominiums, Seminars in Civil Law.

Ana C. Gómez Pérez, JD 2004 University of Puerto Rico; LLM 2007 Universidad Carlos III, Madrid; 2010 PhD in Law, Universidad Complutense de Madrid. Professor. Real Estate Registry Law, Inheritance Law, Family Law, Trust Law.

Glenda Labadie Jackson, LLM, 1999, Harvard University; JD, 1997, University of Puerto Rico, PhD in Civil Law, Pompeu Fabra University, Barcelona. Professor. Tort Liability, Personal and Family Law, Inheritance, Civil Procedural Law, Family Law Seminars.

Hiram A. Meléndez Juarbe, JSD, 2013, New York University (NYU); LLM, 2002, Harvard University; JD, 2000, University of Puerto Rico. Professor. Administrative Law, Cyber Law, Constitutional Law, Constitutional Law Seminars, Copyright, Legal Theory.

Oscar E. Miranda Miller , LLM, 2007, SUNY Buffalo Law School of Law; JD, 2005, University of Puerto Rico. Assistant Professor and Associate Dean. Substantive Criminal Law, Criminal Procedural Law, Legal Profession, Special Criminal Law.

Vivian I. Neptune Rivera, LLM, 1998 Columbia University; J.D., 1995, University of Puerto Rico. Professor and Dean. Labor Law, Law of Evidence and Evidence, Social Legislation.

Alvin Padilla Babilonia , LLM, 2018, Yale Law School; JD, 2016, Univ. of Puerto Rico. Assistant Professor. Theory of Obligations and Contracts; Property Rights; Seminars in Legal Theory; Tort Liability.

Efren Rivera Ramos, Ph.D., 1994, University of London; LLM, 1981, Harvard University JD, 1976, University of Puerto Rico. Professor. Law of Evidence and Evidence, Constitutional Law, Theory of Law, Sociology of Law, Seminars in Constitutional Law.

Mayté N. Rodríguez Rivera , LL.M. Univ. of Columbia, 2011, J.D. Univ. of Puerto Rico 2006. Assistant Professor. Personal and Family Law; Gender Discrimination; Ethics and Professional Responsibility; Non-traditional families; Civil Procedural Law.

Luis E. Rodríguez Rivera , LLM, 1998, University of Cambridge, England; J.D., 1987, Harvard University. Professor. International Environmental Law, Administrative Law, Natural Resources Legislation, Environmental Law Seminars, Administrative Law Seminars.

Iris Y. Rosario Nieves, PhD in Law, 2022, Pompeu Fabra University; Master's Degree in Criminal Law, 2014, University of Palermo; JD, 2006, Univ. of Puerto Rico. Assistant Professor. Criminal law; Criminal procedure; Evidentiary Law; Post-sentencing DNA.

William Vázquez Irizarry, LLM, 1997, London School of Economics; J.D., 1994, University of Puerto Rico. Professor. Civil Procedural Law, Constitutional Law, Administrative Law, Government Law, Executive Process.

Luis M. Villaronga Arostegui, MA, 1973, University of Pennsylvania; J.D., 1966, Harvard University. Professor and Distinguished Professor. Constitutional Law, Insurance Law, Federal Jurisdiction, Civil Rights Litigation.

David Wexler, J.D., 1964, New York University. Professor. Theory of Law; Therapeutic Jurisprudence; Criminal law.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Juris Doctor Program

<https://derecho.uprrp.edu/futuros-estudiantes/admision/juris-doctor/>

The School of Law admits students annually in accordance with the requirements and procedure approved by the Faculty and the Admissions Committee. To gain admission , everyone must:

1. Possess a bachelor's degree from a duly recognized and accredited academic institution.
2. Take the Law School Admission Test (LSAT): The School of Law will not consider LSAT results that are due to exams taken after the month of April of the year for which the candidate is applying for admission. The School currently accepts both the Spanish and English versions of the exam. In case of taking the exam on more than one occasion, the School of Law will consider the highest score obtained. The exam score is valid for 5 years and must be current by the deadline to apply for admission. All applicants are responsible for making the arrangements to take the exam within the established date and ensuring that the School of Law receives their results.
3. Subscribe to the Credential Assembly Service (CAS): CAS is a service offered by the LSAC to collect information from candidates' academic transcripts and LSAT test results. Subscribing to this service is a prerequisite of the admissions process. The collection service must be requested concurrently with the LSAT through the LSAC portal. If the

applicant does not subscribe to the CAS, the School of Law will not consider their application. The payment of the CAS service is different from the payment of the application for admission and must be made before the deadline to apply for admission to the School. The School of Law will only receive applications from applicants who have made the corresponding payment on that platform. The LSAC offers a "Fee Waiver" and waives the payment of the CAS service, the LSAT exam (up to a maximum of 2 times) and the reporting of the LSAT score for people who cannot afford the service.

4. Apply for admission through the CAS: The application for admission to the School of Law will be available on the LSAC portal from October 1 to March 30 of the year for which you are interested in applying.
5. Submit his/her academic transcript to the CAS: All applicants must arrange for an official copy of their academic transcript to be sent to the CAS. This means that you must submit copies of credit transcripts from any college where you have completed undergraduate and graduate studies in order for LSAC to calculate your GPA. The GPA that will be taken into consideration for admission purposes is the cumulative GPA of high school studies. If you do not do this, the School of Law will not consider your application.
6. Provide a personal statement: All applicants must include in the application a composition of no more than two pages on letter-size paper, written in size twelve font, where they relate any life experience they have had, exceptional personal talents they have or have developed, and any other information about their background that may be relevant to contribute to the diversity of our student body. It should explain how you could bring a unique and diverse perspective as a student of our School of Law. Relevant life experiences may include, but are not limited to, academic experiences and employment, socioeconomic disadvantage, financial challenges or difficulties, academic challenges or difficulties, physical limitations, community work or community service experience, being in their immediate family the first generation to attend college, having been raised in an unusual rural or urban environment, having lived abroad, having demonstrated leadership skills, have completed graduate studies or extraordinary family circumstances. The personal statement can be in both Spanish and English.
7. Provide a copy of a university paper: All candidates must include in the application a copy of a written work, in Spanish or English, that they have prepared individually during their university studies. If you don't have a written paper available, you can prepare an essay on any topic where you demonstrate your writing and analytical skills. Theses, dissertations, books, group work or work that is not in the form of an essay will not be accepted.
8. Include a copy of your resume: Applicants must also include their resume in the application.
9. Make a \$20 application fee. This procedure is carried out directly with the School of Law.

GRADUATION REQUIREMENTS:

1. Pass a minimum of 92 credits in the Faculty of Law, with an index of 2.00 points or more. These include **49** credits of core courses and a minimum of 44 credits in elective courses. Among the core courses, 6 credits must be passed in the Legal Aid Clinic course. Among the **43** elective credits, two seminars must be passed, in each of which the student must prepare at least one rigorous monographic essay of publishable quality.
2. No student may take more than 30 credits leading to a degree at another law school. The last 24 credits of the graduation year must be taken at the University of Puerto Rico School of Law.
3. Complete the studies for the degree within a maximum period of 6 years, if they are regular day students, or a maximum term of 7 years if they are part-time evening students.
4. If a student obtains a grade of "F" in any subject, it will be final and the course or seminar in question will not be credited, unless the student repeats that subject and passes it. Elective subjects will not be validated in substitution of failed courses or seminars. Re-examination will also not be authorized in those courses where the student has obtained a grade of "F". In these cases, the student must repeat the course again, enrolling in a subsequent semester.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	49
DERE 7006 Tort Liability	3
DERE 7007 Rights in rem	3
DERE 7008 Personal and Family Law	3
DERE 7015 Criminal Law	3
DERE 7016 Theory of Obligations and Contracts	4
DERE 7017 Civil Procedural Law	4
DERE 7018 Constitutional Law	4
DERE 7026 Law of Evidence and Evidence	3
DERE 7036 Partnerships and Corporations	3
DERE 7039 Theory of Law	3
DERE 7041-7042 Legal Aid Clinic	6

Program Requirements	Credits
DERE 7066 Legal Profession and Professional Responsibility	3
DERE 7068 Legal Research & Writing	2
DERE 7069 Legal Research and Writing II	2
DERE 7115 Public International Law	3
Elective courses (including 4 credits in seminars)	43
Total Credits	92

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

The courses are organized in numerical order according to their codes. This order does not correspond to the sequence in which the courses are taken.

DERE 7006 Tort Liability

Three credits.

Principles of Civil Law and Common Law relating to non-contractual civil liability arising from fault or negligence: highlighting the interaction of these principles in Puerto Rico.

DERE 7007 Rights in rem

Three credits: Study of rights over things versus rights of credit. Classification of things. Possession and the right to possession. Property rights and their evolution. Its modalities by reason of object. Methods of acquisition of rights in rem. The rights of usufruct. Easement rights. Security rights. The safe home.

DERE 7008 Personal and Family Law

Three credits.

Study of the family as a social and legal institution. Birth, extinction and limitation of personality. Study of family institutions: marriage, divorce, paternity and filiation, parental authority, maintenance between relatives, emancipation and guardianship.

DERE 7015 Criminal Law

Three credits.

Study of the nature, characteristics, genesis, sources and concepts of criminal law. Its historical evolution in Puerto Rico. The interpretation of criminal law and its temporal and territorial application. The principle of legality. The General Theory of Crime. Analysis of the principles of criminal law, such as: action, culpability, illegality, imputability, participation and co-authorship, attempt, concurrence of crimes, statute of limitations, penalties and security measures. This course will be offered face-to-face, hybrid, and online.

DERE 7016 Law of Obligations and Contracts

Four credits.

Credit rights. Types of obligations. Its effects. Ways of extinguishing obligations, especially payment and innovation. Individual Actions and Creditor Class Actions. The evolution of the contract. Its binding force. Study of consent, object, and cause of contracts. The perfection of the contract, its ineffectiveness by reason of non-existence, nullity, rescission and termination. Special Terminations. The rebus sic stantibus clause. This course will be offered face-to-face, hybrid, and online.

DERE 7017 Civil Procedural Law

Four credits.

Study of the organization and jurisdiction of the courts. Study of the civil procedural law in force according to the rules of civil procedure promulgated by the Supreme Court of Puerto Rico in 1958. Analysis and comparison with the procedural law in force prior to these rules. This course will be offered face-to-face, hybrid, and online.

DERE 7018 Constitutional Law

Four credits.

A study of the limitations and powers in the relations between the state governments, the federal government, and the commonwealth of Puerto Rico. Examination and comparative study of the entire subject matter of the course in light of the jurisprudence of the federal and Puerto Rico Supreme Court and the constitutions of the United States and Puerto Rico. The course deals with the federal power to regulate commerce and the limitations that this clause imposes on the economic regulation of the states: The general powers of Congress and its interaction with state and local governments; Due Process Limitations on Criminal Proceedings; substantive due process limitations on economic and other governmental regulations; the right to freedom of expression in the political, religious and other spheres; the equal protection of laws clause and judicial review of legislative action.

DERE 7026 Law of Evidence and Evidence

Three credits.

Prerequisite: DERE 7017 Study of the principles of evidence in force according to the doctrines elaborated by the supreme court of Puerto Rico. Provenance and origin of these principles and analysis of modern trends in relation to them. This course will be offered face-to-face, hybrid, and online.

DERE 7036 Partnership & Corporations

Three credits.

Principles of law relating to the private corporation, including those concerning the organization of the corporation, defective corporations, promoter contracts, distribution of corporate powers among shareholders, directors, and officers. Exercises of such powers: delegation of powers by the board of directors, the ultra vires concept. Liability of the directors to the corporation, inspection of the corporate books and accounts by the shareholders, lawsuits arising from shareholders, study of typical problems of the intimate corporation. This course will be offered face-to-face, hybrid, and online.

DERE 7039 Theory of Law

Three credits.

Examination of the fundamental themes and problems of legal theory, including conceptions of law, the validity or legitimacy of norms, problems of legal methodology, key concepts of the prevailing legal order, and the relationships between law, power, social structure, and ideology. These issues will be analyzed by examining the contributions of the various schools and currents of legal thought, with particular emphasis on the most recent developments in the discipline. Face-to-face, hybrid and online course.

DERE 7041 Legal Aid Clinic

Three credits.

Prerequisites: Have successfully passed 60 credits, including DERE 7017 and 7026 courses. Students interested in taking the course in the sections that deal with criminal law cases must have passed the DERE 7019 course. Individual practice under the supervision of the director, interviews with insolvent clients, study of the legal problem presented, determination of the course of conduct to be followed for its solution, preparation of the necessary judicial and extrajudicial documents. Office practice. In addition to the three hours of weekly classes, the teacher meets with his students individually on numerous occasions to discuss their work. This course will be offered face-to-face, hybrid, and online.

DERE 7042 Legal Aid Clinic

Three credits.

Prerequisite DERE 7041

Continuation of Law 7041.

DERE 7066 Legal Profession and Professional Responsibility

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

Study of the history of the legal profession, its values and guiding principles. It examines the regulation of the legal profession, the disciplinary jurisdiction of the Supreme Court and the main duties of professional responsibility. Different perspectives of professional work are examined in the light of contemporary social, political and cultural trends. This course may be offered in one of the following modalities: face-to-face, hybrid, and online.

DERE 7068 Legal Research & Writing

Two credits. One hour of lecture and one hour of discussion a week. Study of the sources, methodology, techniques and practices of legal research and analysis. Development of the legal research and analysis skills necessary for the study and the practice of law, through practical and theoretical exercises. Introduction to contemporary electronic media and resources for conducting legal research. Development, through practical exercises, of the ability to use legal forms and draft the legal memorandum to communicate the result of the investigation. This course will be offered face-to-face, hybrid, and online.

DERE 7069 Legal Research and Writing II

Two credits. One hour of discussion and one hour of research per week. Prerequisite: DERE 7068 This course will continue to study, in more depth, the identification of complex legal controversies, the sources of law, with emphasis on specialized sources. Legal reasoning techniques and oral and written argumentation will be developed. Students will apply the knowledge acquired in the legal research and writing course, DERE 7068, and analyze complex legal problems, through the preparation of objective and persuasive briefs to a judicial or administrative forum. They will apply traditional media search skills and electronic research resources to conduct complex legal research. They will also develop, through practical exercises, the drafting of legal documents to communicate the result of the investigation. This course will be offered in face-to-face, hybrid and online modalities.

DERE 7115 Public International Law

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

Study of the historical developments, basic concepts, institutions and structures and main processes of public international law. Its incorporation into the law of Puerto Rico and the United States. Its effects on domestic law legislation and jurisprudence. This course will be offered face-to-face, hybrid, and online.

OTHER COURSE DESCRIPTIONS:

DERE 7019 Criminal Procedure Law

Four credits.

Prerequisite: DERE 7015 Arrest. Preview. Bail. Hearing before the grand jury. Denunciation and accusation. Arraignment reading and trial preparation. Trial and sentencing. Post-Trial Proceedings and Motions. Appeal. Face-to-face, hybrid and online course.

DERE 7020 Special Criminal Law

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7015 Systematic Study of the Special Part of the Penal Code and Other Statutes.

DERE 7021 Federal Jurisdiction

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: DERE 7017 and 7018 Study, analysis, and reflection on Article III of the U.S. Constitution and the main federal statutes governing the exercise of federal jurisdiction. Concept, nature and scope of the federal judiciary and the basis for its exercise. The distribution of judicial power between federal and state courts, the principles of federalism, conflicts between the federal and state judiciary, and the doctrines developed to resolve them. This course will be offered face-to-face, hybrid, and online.

DERE 7025 Law and Social Change

Study of the legal aspects of development and social change.

Existing legal institutions and their adequacy to deal with the most serious social problems of the modern era will be analysed; the rationale for legislation on planning, urban planning, housing, civil rights and poverty, and the main legal trends in these and other areas that are an effect of economic development and social change. This course will be offered face-to-face, hybrid, and online.

DERE 7027 Commercial Contracts

Three credits.

Prerequisite: DERE 7016 Study of the theory of modern commercial law and the new commercial regulation. The historical development and sources of commercial law, commercial contracts and special regulations. This course will be offered face-to-face, hybrid, and online.

DERE 7028 Administrative Law

Four credits.

Prerequisite: DERE 7018 Analysis of the reasons for the development of the administrative process. Study of functions and administrative agency procedures. Review of the investigative, interpretive, quasi-legislative, and quasi-judicial functions of administrative. the performance

DERE 7029 Inheritance Law

Three credits.

Prerequisites: DERE 7008 and DERE 7016 Intestate succession. Testate succession. Donations. The trust. This course will be offered face-to-face, hybrid, and online.

DERE 7035 Mortgage Law

Three credits.

Historical evolution of mortgage legislation. Registry budgets and their application in Puerto Rican positive law. Elements of the land registry. The registrar, the property, registrable rights and titles, the registered owner, the registry books, the operations carried out in the registry. Study of the right in rem and the summary mortgage enforcement procedure. Face-to-face, hybrid and online course.

DERE 7056 Energy & Law

Three credits. Three hours of lecture per week Prerequisite: Dean's Permit Federal and Puerto Rico legislation, regulations and jurisprudence on imports, production, transformation, speech, prices and conservation of energy, Energy policy; institutional structure and practice. Case studies to study (illustrate) typical legal problems. This course will be offered face-to-face, hybrid, and online.

DERE 7059 Trademark Law

Two credits. Two lecture hours per week Prerequisites: DERE 7007 This course is designed for students with no prior experience or knowledge in the area of trademarks. The trademark law course is intended to familiarize the student with Puerto Rico's trademark law, known as the Puerto Rico Government Trademark Law, Act No. 169 of December 16, 2009, as amended and the federal trademark law known as the Lanham Act, 15 U.S.C. SEC. 1051 et seq. and related doctrines. The course will focus on trademarks, trade dress, unfair competition, among others. For each of these, we will discuss the reasons why protection is granted, eligibility requirements, cause of action, affirmative defenses, and remedies. The course is also intended to introduce the student to the process of filing trademark applications at both the federal and state levels and the licensing process related to trademarks.

DERE 7075 The Law and Gender Discrimination

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7018 Prerequisite Constitutional Law (DERE 7018) Sex discrimination in family relations, employment, education, and criminality is studied, examining the support that the law has provided for such discrimination and how new constitutional trends are contributing to equal opportunities for members of both sexes.

DERE 7076 Securities Legislation

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Prerequisite: DERE 7036 Analytical Study of Federal Securities Statutes: Securities Act of 1933 and Securities and Markets Act of 1935. It examines the implementation of the regulation of securities traffic by regulators (the Securities and Exchange Commission and the Office of the Commissioner of Financial Institutions). In addition, the relationship between the public corporation and the shareholder is studied. It discusses the role of states in securities regulation, in particular examines the content and scope of Puerto Rico's uniform securities law. This course will be offered face-to-face, hybrid, and online.

DERE 7085 Legal Aspects of International Business Transactions

Three credits. Three hours of lecture a week.

Aspects of private and international law that affect commercial transactions between private entities domiciled in different countries are studied. It reviews the aspects of private international law common to all commercial transactions, such as dispute resolution, arbitration of international disputes and the framework of the World Trade Organization. It then examines a number of specific commercial transactions that move from the realm of domestic law to international law, such as, for example, the international sale of goods, the incorporation of a business in another country, the creation of a joint investment company in China, the transfer of technology with companies domiciled in the European Union, and distribution contracts between companies domiciled in the European Union and the United States. USA. This course will be offered face-to-face, hybrid, and online.

DERE 7086 Legal Aspects of the European Union

Three credits. Three hours of lecture a week.

This course discusses the development of the European Union since its inception as a project to bring about European peace after the Second World War. It studies the development of the internal market through the neofunctional integration of the economic communities and we will observe its evolution up to the present Treaty of Lisbon with its emphasis on the constitutional development of the union through the concept of European citizenship. The structure of the Treaty on European Union, the Treaty for the Functioning of the European Union, the functioning of the most relevant European institutions, such as the Council, the Commissioner, the Parliament and the Court of Justice of the European Union through regulations and directives, will be studied. The development of European substantive law through the jurisprudential development of the four freedoms will also be studied. This course will be offered face-to-face, hybrid, and online.

DERE 7087 Technology Transfer

Two credits. One hour of lecture and one hour of discussion per week. Discussion and analysis of the basic concepts of technology and its importance in the legal and corporate world. Contractual relationships relating to the various methods of technology transfer. Evaluation of various forms and ways of exchanging technology. Sources of funding for

technological innovation. The role of the lawyer in transfer processes, both nationally and internationally. The role of government as a regulator and as an enabler of technological innovation. Study of the legal system with respect to technology transfer.

DERE 7101 Workshop for the Drafting of Legal Briefs

Two credits.

With an emphasis on research projects for the Master's Final Project (LL.M.) and on seminar work already completed, the workshop aims to guide the student in the preparation of a publishable quality legal brief. The workshop will take as its starting point a previous research substantially completed by each student and will be oriented towards the writing of a substantial writing in which an adequately substantiated argument is sustained. Emphasis will be placed on such things as organizing writings, outlines, drafts, and strategies for clear and persuasive writing. This course will be offered in face-to-face, hybrid and online modalities.

DERE 7103 Structures and Processes of Anglo-American Law and its Interaction with Civil Law

Two credits. One hour of lecture and one hour of discussion per week. Examination of the main institutions, structures and processes of Anglo-American law and their interaction with civil law in the context of Puerto Rican legal culture. Overview of the Anglo-American institutions present in Puerto Rico, the historical and social process that introduced these institutions in Puerto Rico, the natural tensions that sometimes produced their arrival and the way in which they have evolved. This course will be offered in both face-to-face and distance learning modalities.

DERE 7106 Copyright

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7007 and DERE 7016 Explores in detail the legal protection of copyright in its patrimonial and moral dimension according to federal and Puerto Rican legislation, as well as its theoretical foundations. It examines what constitutes a work and the requirements necessary for its protection, as well as ownership and transfer of rights, the scope of protection, as well as its limitations, exceptions, criteria for judicial evaluation to determine violations, and remedies available in court. It also considers copyright at the international level.

DERE 7108 Introduction to Intellectual Property

Three credits. Three hours of lecture a week.

Prerequisite: DERE 7007 Course designed to familiarize the student with the basic concepts and doctrines for the protection of intellectual property including patents, trademarks, copyrights, self-image rights and trade secrets. The course is aimed at students who wish to be exposed to intellectual property law and the impact that such protection has on other interests such as free competition and freedom of expression. This course will be offered face-to-face, hybrid, and online.

DERE 7109 Patent Law

Three credits. Three lecture hours per week Prerequisite: DERE 7007 This course is designed for students with no prior experience or knowledge in the area of patents, including those students who do not have a technical background. The course seeks to provide students with a basic understanding of patent law and the patent system of the United States of America. The course discusses the theory and public policy of the patent system, as well as the requirements imposed to obtain a patent such as the requirement of eligibility, utility, novelty, non-obvious, and the requirement of disclosure and teaching.

DERE 7116 Payment Systems

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: DERE 7016 Study of the regulation of means of payment execution. It includes examination of negotiable instruments, bank deposits and collections, transfers of funds, letters of credit, warehouse receipts, consignment notes, and other documents of title. The rights and responsibilities of the parties to a promissory note, check, and other negotiable instruments are discussed. In addition, regulation regarding the use of credit cards, electronic funds transfers and other payment systems is examined. This course will be offered face-to-face, hybrid, and online.

DERE 7124 Intersection of Race, Gender and the Law in Puerto Rico

Two credits. Two hours of lecture per week In this course we will study the intersection between race, gender, and law in Puerto Rico. The experience of black and Afro-descendant women is very different in Puerto Rico due to the construction of racial and gender identities and the prevailing colorism in our society. By looking at these issues from a variety of different angles, focusing our attention on Black women's legal understanding and consciousness, the course seeks to promote a deeper understanding of the complex interactions between law, race, and gender in order to formulate interdisciplinary anti-racist proposals. The course will study law, jurisprudence, and interdisciplinary readings with narratives and first-person readings of history, anthropology, and cultural criticism.

DERE 7209 Immigration Law

Two credits. Two hours of lecture per week. Study of the law, policies and procedures

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DERE 7296 Practice Workshop in Courts and Administrative Agencies

Three credits. 10 hours per week of fieldwork for 4 weeks. Five group meetings.

Prerequisite: Have completed 31 credits.

The Practice in the Courts and Administrative Agencies workshop introduces students to the duties of legal officers and litigation in the trial court, the court of appeals, the federal court for the district of Puerto Rico, and administrative agencies. Students will work for a judge or legal division, write drafts of law memoranda, orders, and judgments and, in cases of their own, observe trials, oral arguments, and procedural hearings. The workshop requires the commitment of 120 hours of fieldwork during the semester and 5 group meetings in the classroom to discuss topics such as effective litigation in the courts and court opinion writing skills. Students must have a GPA of 3.0 or more at the time of application. Applications must be received by the program coordinator in the semester prior to the internship workshop and, if accepted, the student will be able to pre-register for the course.

DERE 7297 Advanced Court and Agency Practice Workshop

Three credits. Two hours of practice and one hour of workshop per week.

Prerequisites: Minimum of 22 credits including DERE 7068. One of two DERE 7995 or DERE 7296 courses. Students who have taken the previous two courses do not qualify. A 3.0 GPA.

Students who have already had a supervised hands-on experience will be able to do a more sophisticated practice, while developing skills acquired in a previous hands-on course. This subsequent practice will include the tasks of legal officers in different courts in Puerto Rico, the United States, as well as in administrative agencies. Students must apply to a different internship center or, if it is the same one, that has been requested by their supervisor and that certifies that tasks of greater complexity will be assigned to those already worked. Students must have a GPA of 3.0 or higher at the time of application. The course is not available to students who have taken DERE 7995 (Summer Practice Workshop) or DERE 7296 (Court and Agency Practice Workshop). But it is a prerequisite that you have taken one of the two.

DERE 7301 Revista Jurídica Mercantil I

One credit Prerequisite: 31 approved credits Training and practice in the writing and editing of monographic and bibliographic notes.

DERE 7302 Revista Jurídica Mercantil II

One credit Prerequisite: 31 credits passed Training and practice in the writing and editing of monographic and bibliographic notes, part two.

DERE 7309 Media Law

Three credits. Two hours of lecture per week.

Study and analysis of the legal system applicable to the mass media. The main topics studied include: freedom of speech and of the press and the limits of government regulation; legal problems arising from communication, including defamation and the protection of privacy; legal issues related to the procurement of news, in particular the privilege of journalists and access to information. This course will be offered face-to-face, hybrid, and online.

DERE 7488 Revista Jurídica Editorial Board

Two credits. Two hours of lecture per week

Prerequisite: DERE 7588 Training and Practice in the

Monographic and bibliographic notes. Establishment and implementation of the editorial policy of the University of Puerto Rico Law Review.

editorial staff the

DERE 7508 Secured Transactions

Three credits.

Prerequisite: DERE 7016 Study of Movable Guarantees: Movable Lien, Purchase and Sale of Accounts

and financial paper and appropriation. It discusses its creation, completion, enforcement and the rights, liabilities and remedies available to debtors and creditors. The rules relating to priority conflict issues are discussed. Evaluation of the effectiveness of the regulation and the possibilities of harmonization with other relevant legal provisions. This course will be offered face-to-face, hybrid, and online.

DERE 7509 Antitrust Practices Legislation

Three credits.

Federal antitrust laws are studied in a twofold way: (1) in their structure, content, and general interpretation, as well as in their direct application to Puerto Rican commerce and commerce between Puerto Rico and the United States; and (2) their significance as precedents of Puerto Rican legislation, which is covered simultaneously in the study of the various proscribed practices. The problems of unfair competition are approached from the point of view of private law as a basis for the study of the prohibition of unfair methods of competition, as a function of public law, a matter that is analyzed both under the law of the Federal Trade Commission and under state legislation.

DERE 7516 Insurance

Three credits. Three hours of lecture a week.

Insurance theory with particular emphasis on Puerto Rico's problems. The Puerto Rico Insurance Law and the jurisprudence of Puerto Rico and the United States on insurance matters are studied. This course will be offered face-to-face, hybrid, and online.

DERE 7517 Trusts

Study of the Anglo-American trust and its possibilities in civil law jurisdictions.

DERE 7518 Tax Law

Four credits.

General principles of public finance. Jurisdiction and limitations under federal, state, and insular systems. Substantive and procedural aspects of taxes imposed on property, inheritance, and income and excise duties in Puerto Rico. This course will be offered face-to-face, hybrid, and online.

DERE 7519 Accounting and Law

Two credits. Two hours of lecture per week. General Accounting Principles. Sources, nature and presentation of financial data. Interpreting and the legal profession.

use of models with special Reference to

DERE 7520 Taxation of Corporations and Partnerships

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

Prerequisite: DERE 7518 Study of the main aspects of corporate taxation in Puerto Rico of corporations and partnerships and their respective shareholders and partners. The various aspects are covered by means of a textbook, completed by the Internal Revenue Code of Puerto Rico, judicial decisions and practical problems.

DERE 7526 Legislative Process

Three credits.

Prerequisite: Constitutional Law (DERE 7018) Comparative institutional study of the U.S. Congress and the legislature of Puerto Rico. Exhaustive analysis of the structure, composition and functions of the different bodies of the legislative branch. Examination of modern techniques and methods of legislating. Preparation of draft laws on Puerto Rico's legislative problems.

DERE 7527 Social Legislation

Three credits: three hours of lecture per week.

Study of federal wage and hour legislation and its interaction with wage and hour legislation enacted by the Commonwealth of Puerto Rico. Examination and analysis of the law on unjustified dismissal on the seventh day of working mothers, the closure of the establishment and the procedural problems related to compliance with social legislation in this area

DERE 7530 Bankruptcies

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

Prerequisite: DERE 7016 Prerequisite: Theory of Obligations and Contracts (DERE 7016)
Study of the federal bankruptcy code, its fundamental principles, and its application to businesses and individuals in Puerto Rico. Examination of jurisprudential aspects, the rights of creditors and debtors, full liquidation under Chapter 7, and commercial and individual reorganizations under Chapters 11, 12 and 13. I am a student

and critical analysis of the various processes of a bankruptcy case, including the commencement of the voluntary and involuntary cases, the automatic suspension of collections, the use of and the alienation of the ownership of the estate, the assumption or rejection of perfected contracts, the annulment of transfers of the ownership of the estate, exempt property and other issues of interest in our society.

DERE 7535 Labor Law

Four credits.

Study of the process of historical development of the discipline with a view to a better understanding of its current problems. Dynamic comparative analysis of the interaction of the national labor relations law and the labor relations law of Puerto Rico. Special attention is given to problems related to the appointment of representatives for the purpose of collective business, the activities of labor organizations and employers in labor disputes, collective bargaining, legal and contractual mechanisms for settling labor-management disputes, and relations between unions and their members.

DERE 7539 Natural Resources Legislation

Three credits. Three hours of lecture per week: The problem of natural resources and their factual situation will be studied; existing legal and administrative structures for conservation, planning, use and resource preservation; their adequacy and recent legal trends in this field. This course will be offered face-to-face, hybrid, and online.

DERE 7540 International Environmental Law

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

Exploration, from an international perspective, of contemporary issues and problems in the law of environmental protection and conservation of natural resources, such as: the application of international law and the environment to the protection of air and atmosphere, biodiversity, territorial resources, fauna and flora, marine and fresh waters, and population growth. Examination of diverse legal doctrines, including interpretations of international treaties and implementation of recent laws and agreements that impact efforts to administer, preserve, restore
y protect the environment. This course will be offered face-to-face, hybrid, and online.

DERE 7545 History of Puerto Rican Law

Three credits. Three hours of lecture a week.

Study of the background of Puerto Rican law. Indian law. Analysis of Judicial Institutions during the Nineteenth Century. The administration of justice and law during the period of U.S. military rule (1898-1900). Detailed examination of the historical origins of the U.S. Provisional Court in Puerto Rico (federal court) 1898-1900. Secular constitutional changes (regime of the autonomous constitution of Puerto Rico). This course will be offered face-to-face, hybrid, and online.

DERE 7546 Special Contracts

Three credits.

Typicality in hiring. Progress towards typicality, especially on the basis of pre-contracts, options and promises. Regulation of contracts of sale, exchange, lease, mandate, loans, deposits, bonds, insurance, random contracts, contracts on property by reason of marriage. The gestation of other people's businesses and the collection of the undue. Compromise and arbitration. Unjust enrichment.

DERE 7547 Private International Law

Three credits.

Doctrines on private international law, and on the guidelines that should govern the selection of the positive norm applicable in cases involving more than one legal system. Attitude of the legal system in Puerto Rico. Details, both in terms of doctrine and in terms of Puerto Rico's positive law, on the cases that most frequently give rise to conflicts of law: problems of jurisdiction and competence, marriage, divorce, guardianship, regulation of movable and immovable property, inheritance, conclusion and performance of contracts, prescription of rights and actions, application of foreign judgments, tort, etc.

DERE 7556 Notarial Practice I

Three credits. Three hours of lectures a week.

Prerequisite: 31 credits passed and DERE 7035 This introductory course in notarial law covers not only the theoretical bases of this branch of law, but also the way in which this subject is regulated in the current legal system. The role of the notary as a legal professional will be studied. The requirements and characteristics of all notarial documents will be studied, with special emphasis on the public instrument, both from its theoretical perspective and the way in which it should be prepared, without going into the details of the legal business of each instrument. The professional ethics of the lawyer will be studied from the perspective of the notary.

DERE 7558 Notarial Practice II

Three credits. Three hours of lecture a week.

Prerequisite: 31 credits passed, DERE 7077 or DERE 7556 This course studies the notarial form of public instruments and testimonies and their content in civil contracts. The course covers non-contentious matters before a notary where they will be analysed and drafted. The main businesses and contracts of a civil nature will be discussed, with special emphasis

on the notarial form and the notarial obligations that arise on the occasion of them. Each student will form and bind their protocol in accordance with the notarial law and its regulations. The course will discuss and analyze problems of a civil nature that a notary may face in the exercise of the profession and such problems will serve as a tool for the process of learning business and civil contracts, deepening the knowledge acquired in an introductory way in the Notarial Practice I course.

DERE 7566 Law and Poverty

Three credits.

Examination of the main problems of the indigent that have or could be solved by legal means, in order to discuss the causes that prevent the law from serving the needy. As a consumer, as a tenant, as a citizen with civil rights guaranteed by the constitution, and as a recipient of social justice and public welfare programs, the homeless face problems that could be solved legally but are currently largely unsolved by law. The issues at hand and applicable laws will be considered in the course. The failures of these and the system will be discussed in search of effective solutions

DERE 7669 Law and Literature Course

Three credits. Three hours of lecture a week.

Study of the relationship between law – in its broad aspects – and literature. Appreciation of understanding of various aspects of legal life as it is objectified and seen through storytellers, poets, playwrights, novelists and essayists. The literary vision of law. Examination of the cultural values of humanity as a necessary source of knowledge for jurists. An opportunity for the law student and the lawyer to understand, study and examine human nature, as observed and exposed in the literature, which will help him in making value judgments inherent to the legal profession.

DERE 7570 Therapeutic Jurisprudence

Three credits. Three hours of discussion a week.

Examination of the main tenets of therapeutic jurisprudence, a perspective that sees law (the rules, legal procedures, and roles of lawyers and judges) as a potential therapeutic agent. Study of the impact of the law on emotional life and psychological well-being. Discussion of legal reform measures and how lawyers, judges, and others can apply existing law in a more therapeutic way. This course will be offered face-to-face, hybrid, and online.

DERE 7575 Appellate Forensic Practice

Two credits.

Preparation and presentation to the court of specific cases assigned individually. Total number of times to be repeated up to a maximum of 10 credits. No more than 46 elective credits may be considered for the degree. No student will be able to repeat a course with the same code if it contains the same subtopic. This is the credit repetition is only for courses of different subtopics,

and not for courses that are exactly the same, but offered in different semesters.

DERE 7578 History of Constitutional Law in Puerto Rico

Three credits. Three hours of lecture a week.

Historical legal study of the constitutional development of Puerto Rico from 1812 to 1975.

DERE 7585 Ethics and Professional Responsibility

Three credits. Three hours of lecture a week.

Prerequisite: Regular law students in their second or third year.

The course aims to explore, using methods from psychology, the attitudes and problems that conflicts in the practice of the profession produce in lawyers.

DERE 7588 Law Review I

Writing of monographic notes, bibliographies, etc.

DERE 7589 Law Review II

A credit.

Writing of monographic and bibliographic notes, etc.

DERE 7730 Alternative Dispute Resolution Methods

Two credits. Two hours of lecture per week.

Study of modern trends towards the development and implementation of alternative methods of dispute resolution ("ADR") other than judicial trial: arbitration and mediation in its labor, commercial, international, matrimonial, negotiation, transaction, among other methods.

DERE 7995 Legal Practice Workshop

Two to four credits.

Prerequisites: 22 credits including DERE 7068 It offers students the hands-on legal environment that makes it easier for them to adjust to the routine of the profession. During the summer term students are assigned to judges' offices, government agencies, legislative commissions, private law firms, and the legal aid clinic. Face-to-face, hybrid and online course.

DERE 7991 Special Topics in Private Law

One to four credits Analysis of special areas of particular relevance in the field of private law. Total number of times to be repeated up to a maximum of 15 credits. No more than 46 elective credits may ever be considered for the degree, no student may repeat a course with the same code if it contains the same subtopic. That is, the credit repetition is only for courses in different subtopics, and not for courses that are exactly the same, but offered in different semesters.

DERE 7996 Special Public Law Topics

One to four credits.

Analysis of special areas of particular relevance in the field of public law. Total number of times to be repeated up to a maximum of 15 credits. No more than 46 elective credits may be considered for the degree. No student will be able to repeat a course with the same code if it contains the same sub-topic. This is the credit repetition is only for courses of different sub-topics and not for courses that are exactly the same, but offered in different semesters. In-person, hybrid, and online.

DERE 7741 Conflict Mediation I

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

Prerequisite: DERE 7017 Course aimed at developing the skills necessary to conduct effective mediations in a range of disputes. It considers and compares the various alternative and conflict methods, negotiation mechanisms, psychosocial aspects pertinent to mediation, the historical background, the legal basis and stages of the facilitative model of mediation, the handling of domestic violence cases, and finally, ethical and professional responsibility considerations. These topics are developed through interactive and application exercises. Students who satisfactorily pass the Conflict Mediation I and II courses may be certified as a mediator, upon compliance with other requirements established in the relevant regulations of the Supreme Court of Puerto Rico. Face-to-face, hybrid and online course.

DERE 7742 Conflict Mediation II

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

Prerequisite: DERE 7741 Course aimed at developing the skills necessary to conduct effective mediations in a range of disputes. It considers and compares the various alternative and conflict methods, negotiation mechanisms, psychosocial aspects pertinent to mediation, the historical background, the legal basis and stages of the facilitative model of mediation, the handling of domestic violence cases, and finally, ethical and professional responsibility considerations. These topics are developed through interactive and application exercises. Students who satisfactorily pass the Conflict Mediation I and II courses may be certified as a mediator, upon compliance with other requirements established in the relevant regulations of the Supreme Court of Puerto Rico. This course will be offered in face-to-face, hybrid and online modalities.

DERE 7745 Independent Study

Two credits. Two hours of seminar per week.

Prerequisite: 31 approved credits and a seminar at the School of Law Directed legal research course for the purpose of converting an approved extended essay in a seminar taken at the School of Law into a higher length publishable quality academic writing (25,000 words or more including footnotes). Prior to enrollment, the professor and the student will agree in writing on the research topic to be developed, the bibliography to be used, as well as the methodology of the research and monograph that will result as the final product. A copy of the agreement will be

deposited with the Dean's Office of the School of Law, whose agreement will be signed by the student, the mentor professor and at least one professor who will be a reader of the essay.

SEMINARS:

Seminars on specialized topics in each area of law constitute a fundamental component of legal education, as they provide the student with the opportunity to study and research in depth a topic of interest to them under the supervision of a faculty professor. In addition, they allow for careful research leading to the writing of an extensive monograph.

The seminars at our school address various topics under each area of law under which they are developed, as indicated in their description. The professor in charge of the seminar will announce the topic to be studied in the class program of the semester in which it is offered. Enrollment for each seminar is limited to a maximum of 15 students to facilitate intense discussion of complex legal issues.

All students must take a minimum of four (4) credits in seminars as a requirement of the degree. In each seminar, the student must write an extensive monographic essay as a requirement for approval. Each seminar may be repeated up to a maximum of four times (a maximum of eight (8) credits), as long as the topics covered by the seminars are different. Below is an overview of the seminars offered at the school.

DERE 7590 Seminar: Topics in Corporations and Partnerships

Two credits. Two hours of seminar per week.

Study of complex issues of corporate law. The following will be addressed, among others: (a) corporate financing; (b) organization of the corporation; (c) shareholder and director liability; (d) mergers, reorganizations or dissolutions; (e) comparative corporate law; (f) business planning; g) Corporate law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times, as long as the theme is different.

DERE 7597 Seminar: Topics in Administrative Law

Two credits. Two hours of seminar per week.

Study of complex issues of administrative law. The following shall be addressed, among others: (a) rights and procedures related to particular administrative agencies; (b) the exercise of the agencies' powers and their review; (c) immigration problems; (d) regulation of private sector institutions, processes or products; (e) law, planning and urban planning; (f) comparative administrative law; (g) Problems of administrative law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a

maximum of four times (8 credits), as long as the subject matter is different.

DERE 7600 Topics in Criminal Law

Two credits. Two hours of seminar per week.

Study of complex criminal law issues. The following will be addressed, inter alia: (a) the general part of criminal law; (b) specific offences; (c) different penal systems in different legislations; (d) administration of criminal law; (e) comparative criminal law; (f) criminal law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7630 Seminar: Topics in Commercial Law

Two credits. Two hours of seminar per week.

Study of complex issues of Commercial Law. The following will be taken care of, among others: (a) insurance in general; (b) trade finance; (c) international trade relations; (d) insurance in general; (e) property and contingency insurance; (f) life insurance; (g) negotiable instruments; (h) Comparative Commercial Law; (i) regulation of financial markets; (j) Commercial Law in general. The specific topic to be studied in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7667 Seminar: Topics in Legal Theory

Two credits. Two hours of seminar per week.

Study of complex topics of legal theory. The following will be addressed, among others: a) the philosophical-legal work of specific authors; (b) specific legal movements or schools of thought; (c) theories on particular aspects of legal order; (d) the judicial process; (e) law and literature; (f) ethics, morality and justice and the legal profession; (g) law and social theory; (h) feminist theory; (i) theory of law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7676 Seminar: Topics in Environmental Law

Two credits. Two hours of seminar per week.

Study of complex issues of environmental law. The following will be addressed, among others: (a) specialized legislation for the protection of the environment; (b) environmental protection and economic development; (c) methods, processes and remedies, substantive and procedural, for the protection of natural resources, ecology and the environment; (d) comparative environmental law; (e) international environmental law; (f) Environmental law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different. This course will be offered face-to-face, hybrid, and online.

DERE 7678 Seminar: Topics in Civil Law

Two credits. Two hours of seminar per week.

Study of complex issues of civil law. The following will be addressed, among others: (a) the individual and the family; (b) the problems and rights of minors; (c) domestic violence and other contemporary problems; (d) the right to property; (e) the law of contracts and obligations; (f) inheritance law; (g) non-contractual civil liability; (h) private international law; (i) The preliminary title of the Civil Code; (j) comparative civil law; (k) registration law; (l) intellectual property law; (m) Civil law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7680 Seminar: Topics in Constitutional Law

Two credits. Two hours of seminar per week.

Study of complex issues of constitutional law. The following shall be addressed, inter alia: (a) the organization of the powers of the State; (b) the right of expression; (c) the relationship between church and state and freedom of worship; (d) constitutional relations between Puerto Rico and the United States; (e) due process of law; (f) freedom of the press; (g) equal protection of the law; (h) constitutional theory; (i) the institutions and processes of the legislature; (j) comparative constitutional law; (k) federalism and constitutional structure; (l) specialized legislation on civil rights and individual freedoms; (m) problems of constitutional law litigation; (n) constituent processes, experiences, problems and solutions; (o) Constitutional law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits) as long as the theme is different.

DERE 7686 Seminar: Topics in International Law

Two credits. Two hours of seminar per week.

Study of complex issues of international law. The following shall be addressed, inter alia: (a) customary and contractual rights between States; (b) international economic transactions; (c) international protection of human rights; (d) Rights between Caribbean States and peoples; (e) Economic communities and policies; (f) the fundamental concepts of international law; (g) International law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different. This course will be offered face-to-face, hybrid, and online.

DERE 7688 Seminar: Topics in Criminal Procedural Law

Two credits. Two hours of seminar per week.

Study of complex issues of criminal procedural law. The following shall be addressed, inter alia: (a) constitutional protections in criminal proceedings; (b) criminal proceedings under Puerto Rican rules; (c) criminal procedure under federal rules; (d) enforcement of sentences

and rights of prisoners; (e) comparative criminal procedural law; (f) Criminal procedural law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7689 Seminar: Topics in Tax Law

Two credits. Two hours of seminar per week.

Study of complex tax law issues. The seminar will address the following topics: a) taxation of individual income; (b) taxation of corporations and shareholders; (c) taxation of relict estates and donations; (d) fiscal policy; (e) comparative tax law; (f) Tax law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7690 Seminar: Topics in Advanced Legal Research

Two credits. Two hours of seminar per week.

Study of complex legal issues. The following will be addressed, among others: (a) research on the legal profession; (b) empirical legal research; (c) research on the regulation of professional conduct; (d) research on comparative legal systems; (e) research on legal systems or traditions of the world; (f) Advanced legal research in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7696 Seminar: Topics in Labor Law

Two credits. Two hours of seminar per week.

Study of complex issues in labor law. The following will be attended, among others: (a) organization of workers' unions; (b) collective bargaining; (c) guarantees for non-union workers; (d) unemployment; (e) labour legislation in different legal systems; (f) public sector labour organization; (g) comparative labour law; (h) Employment: problems, legislation and public policy; (i) Labour law in general. The specific topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

DERE 7698 Seminar: Topics in Law and Society

Two credits. Two hours of seminar per week.

Study of complex issues of law and society. The following will be addressed, among others: (a) law and poverty; (b) social security programmes and the rights of beneficiaries; (c) housing; (d) the right to health; (e) law and mental health; (f) law and social change; (g) the right of the elderly; (h) law and education; (i) law and technology; (j) Law and society in general. The specific

topic to be studied will be announced in advance of the semester in which it is offered. The writing of an extensive monograph on the subject is required. It can be repeated up to a maximum of four times (8 credits), as long as the subject matter is different.

Graduate School of Business Administration





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DEGREE: Master of Business Administration (MBA)

The Master of Business Administration (MBA) Program at the University of Puerto Rico, Río Piedras Campus responds to the need to train entrepreneurial, innovative and ethical leaders who have a systemic, global and sustainable vision of companies. It prepares its students for a leadership career as they develop their competencies essential for success in today's challenging business environments. It also meets the needs of professionals looking for a dynamic environment to expand their academic horizons. The MBA is one of the few programs of its kind accredited by the *Association to Advance Collegiate Schools of Business* (AACSB), the leading and most prestigious accrediting body for business schools worldwide.

TEACHER PERSONAL:

Maribel Aponte , PhD, University of Massachusetts, 1990, Professor. International Business and Development in Latin America and the Caribbean; Comparative Business Models; The Bolivarian Alliance for Our America; New Strategic Regionalism; Production and Trade Chains and Networks; Food Sovereignty; Visual research.

Jorge Ayala Cruz , PhD, Rensselaer Polytechnic Institute, 1993, Professor. System Dynamics; Strategic Operational Management; Supply Chain and Logistics Management; Quantitative Numerical Methods.

José Caraballo Cueto, PhD, The New School for Social Research, 2013, Associate Professor. X Goals, Economic Development, Human Development, Entrepreneurship.

Pedro González Cerrud , PhD, Lehigh University, 1992, Professor. Advanced Corporate Finance, Advanced Financial Accounting, Financial Statement Analysis, International Investments, Options, Futures and Other Derivatives, Quantitative Methods in Marketing.

Karen Orengo Serra , PhD, Sorbonne University, Paris, 2000, Professor. International Business: Theory, Strategic Management, Marketing and Entrepreneurship; emphasis on Internationalization of SMEs and Family Businesses.

Justin Paul, PhD, Indian Institute of Technology Bombay, 2003, Professor. International Marketing, Business in Asia and Emerging Markets, Strategic Management, Service Marketing.

Víctor Quiñones Cintrón , PhD, New York University, 1977, Professor. Customer Satisfaction and Post-Purchase Decisions; Integrated Communication in marketing and the exchange management process; Brand customization and its link to product positioning; strategic design during the life cycle of products.

Javier Rodríguez Ramírez, PhD, Houston University, 2003, Professor. Quantitative Methods in Finance; Behavioral Finance; Mutual Funds

Alex Ruiz-Torres, PhD, Pennsylvania State University, 1997, Professor. Operations and Supply Chain Management, Reverse Logistics, Production Planning.

Jimmy Torrez, PhD, University of California, 1998, Assistant Professor. Externalities of Free Trade; The Effect of Bureaucracy on Goods and Capital Markets; Market Inefficiencies; International Capital Markets.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

In addition to the requirements established by the Río Piedras Campus, all applicants must possess:

1. Baccalaureate (or equivalent) from a duly recognized university.
2. Verbal and written proficiency in Spanish and English.
3. Critical analysis skills.
4. Potential to successfully complete the graduate-level degree program. The following criteria will be taken into consideration:
 - a. Overall baccalaureate academic index of at least 3.00 points on a 4.00 scale.
 - b. At least one course in mathematics that includes algebra and trigonometry with a grade of at least "B."
 - c. If necessary, meet with the members of the Admissions Committee.

Required Documents for the Application for Admission

1. Two credit transcripts from each institution where you studied.
2. Two recommendations from professors with whom you have taken courses.
3. Written essay explaining the reasons why the applicant selected this Program.

GRADUATION REQUIREMENTS:

In addition to the graduation requirements applicable to the Rio Piedras Campus graduate programs, the student must:

1. Pass the ADMI 5500, Foundations for Graduate Studies in Business Administration, and ADMI 5600, Tools for Graduate Studies in Business Administration courses for one credit each. The aforementioned courses are not part of the 42 credits required for the degree. Students with a Bachelor of Business Administration are eligible to take ADMI 5500.
2. Complete all courses required for the degree with an academic index of no less than 3.00 points.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	30
ADMI 6510 Decision Making	3
ADMI 6637 Business Ethics	3
ADMI 6531 Management and Leadership	3
CONT 6501 Accounting for Analysis and Control	3
ECOG 6567 Managerial Economics	3
6501 Business Finance	3
GEOP 6539 Operations and Supply Chain Management	3
MECU 6551 Fundamentals of Statistics	3
MERC 6541 Marketing Management	3
ADMI 6595 Cooperative Education Experience	3
Elective or Targeted Selection Courses	12
Total Credits	42

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ADMI 6510 Decision Making

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 Study and analysis of various models for decision-making from the perspectives of information systems management and their role in decision-making and the development of processes and systems to support the decision-making function in organizations. Exploration of the concepts of information systems management and their use in decision-making processes. Face-to-face, hybrid and online course.

ADMI 6637 Business Ethics

Three credits. Three hours of lecture a week.

Prerequisite: Principal's permission.

Integrated study of the humanities and information from the behavioral sciences as they apply to economic activity to give the future manager the philosophical perspective he needs. Analysis of the development of a philosophy for free enterprise and the image of man according to humanistic studies and behavioral sciences. An examination of the equal needs and unequal capacities of men inherent in the labor-capitalist conflict, as well as an analysis of its dynamics and of those schools of thought that attempt to find common ground in common agreement. Exploration of the impact of different philosophies on ethics to produce a society that progressively approaches the equitable distribution of economic goods. Face-to-face, hybrid and online course.

ADMI 6531 Management and Leadership

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Fundamentals of the Management Process in Organizations. Integration of contemporary approaches to the study of organizational behavior, the human aspect in organizations and leadership in business administration and management. In this course, face-to-face and online interaction can be combined.

CONT 6501 Accounting for Analysis and Control

Three credits. Three hours of lecture a week.

Introduction to concepts, terminologies, processes, problems, and methodologies of managerial and financial accounting (including tax accounting). This course emphasizes the needs of information management to perform consistent analysis and select optimal decisions for the planning and control of operations in order to increase the value of the

company in an efficient and effective way, in dynamic business environments. The course can be offered in face-to-face, hybrid, or online mode.

ECOG 6567 Managerial Economics

Three credits. Three hours of lecture a week.

Prerequisites: Director's Permission Exposition of the basic principles of economics related to the neoclassical theory of firm. It comprises the integration of fundamental theories of microeconomics with applications in finance and econometrics, among other topics, with emphasis on the application of these theories in managerial decision-making in the business context. This course will be offered face-to-face, hybrid, and online.

6501 Business Finance

Three credits. Three hours of lecture a week.

Introduction to the theory and practice of finance from the perspective of companies operating in competitive markets. It discusses basic analytical tools needed to make financial decisions that create value. Some topics examined are capital asset investments, valuation, financing, dividend policy, governance, risk management, international finance, working capital management, and financial planning. The course can be offered in face-to-face, hybrid, or online mode.

GEOP 6539 Operations and Supply Chain Management

Three credits. Three hours of discussion a week.

Prerequisites: MECU 6551 and ADMI 6552 Study of the planning, management and control of operations and supply chains in organizations. The course introduces several qualitative and quantitative techniques and methodologies of the discipline. It also explores tactical and strategic considerations necessary to sustain the competitiveness of the organization from a systematic perspective. The course discusses contemporary global and technological factors influencing operational and supply chain decision-making. The course can be offered in face-to-face, hybrid, or online mode.

MECU 6551 Statistical Thinking and Data Analysis

Three credits. Three hours of lecture a week.

Study of the fundamentals of descriptive statistics, probability, probability distributions, and classical and Bayesian inference. The course introduces the use of "statistical thinking" in business problem modeling. The course can be offered in face-to-face, hybrid, or online mode.

MERC 6541 Marketing Management

Three credits. Three hours of lecture a week.

Prerequisites: ADM1 6531 and MECU 6551 Study of the strategic process carried out by for-profit and non-profit organizations, in their management of satisfying the needs and desires of their external and internal customers. In this comprehensive introduction to the field, students improve their ability to make effective marketing decisions, including evaluating opportunities and developing strategies that meet the expectations of all involved. The course can be offered in face-to-face, hybrid, or online mode.

ADM1 6595 Strategic Management

Three credits. Three hours of lecture a week.

Prerequisites: ADM1 6531, ADM1 6637, CONT 6501, 6501 GEOP 6539, MECU 6552 AND MERC 6541.

Study of the approaches, practices and trends used in the formulation, establishment, evaluation and control of the actions necessary to develop and sustain the competitive advantage of the company. Emphasis on the integration of knowledge from the different functional areas of the company, interdisciplinary analysis, holistic and systemic reasoning, and teamwork. You will use the knowledge acquired in various courses of the master's degree to analyze complex situations. The course can be offered in face-to-face, hybrid or online mode.

OTHER COURSE DESCRIPTIONS:**ADMINISTRATION****ADM1 6631 Human Conduct in Organizations**

Three credits. Three hours of lecture a week.

Prerequisite: ADM1 6531 - 6532 Through the discussion of readings and real cases, the student is trained in the systematic analysis of the problems and situations that involve the human element in the company. The consistencies and inconsistencies between the pressures external to the company are observed, how they affect the feelings of its members, how they are reflected in the behavior patterns of these members. It examines, for example, the authoritarian management style versus the one that gives subordinates participation in decisions; the emotional problems posed by a dynamic or static environment and ways to motivate productivity.

ADM1 6632 Theory and Organizational Change

Three credits. Three hours of discussion a week.

Prerequisite: ADM1 6531 Study of theory and change in business enterprises from various perspectives. Emphasis on the development of analytical skills to better understand business complexity and produce alternatives for action that lead to change and improvement.

ADMI 6633 Personnel Administration and Industrial Relations

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6531 - 6532 The problem of human resources in enterprise and society, the functions and techniques of personnel administration, the nature of industrial relations, the function, the process of collective bargaining, management and union in the management of industrial relations, the policy of personnel administration, industrial relations and the public interest.

ADMI 6635 Business, Government & Society

Three credits. Three hours of lecture a week.

Prerequisite: Admission to Graduate School or Professor's Permit Definition of the company's relations with the government and with society at large. The role of government as an essential element of the business environment is noteworthy, for example, in the structuring and implementation of antitrust and minimum wage laws, tax reforms, and environmental sanitation provisions. The course discusses the manager's public accountability and effective participation in legislative, executive, and judicial processes.

ADMI 6650 Planning and Organization of New Businesses

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6532, MECU 6551 and CONT 6501 This course will study the opportunities for starting a business and will confront the student with a series of problematic situations through which they will develop an understanding of these existing opportunities. It will explore the need for information gathering to take advantage of future opportunities in improving a business. It will make the student aware of the risks, rewards, and difficulties that may be encountered in running a business and in the method to be used to solve these difficulties. Special attention will be given to the method of developing estimates of a potential market, the planning of a business's market entry, and the types of production or operational processes.

ADMI 6715 Research Methodology for Management and Administrative Sciences

Three credits. Three hours of discussion a week.

Study of managerial and administrative research. Emphasis on its applicability to solve problems and formulate theoretical management studies. Discussion of readings and cases related to the procedures used in the construction of managerial theories by thought leaders of the managerial and administrative sciences. In addition, it will discuss how paradigms emerge and how established ones have been transformed.

ADMI 6728 Seminar in the Field of Human Behavior

Three credits. Three hours of lecture a week.

This course can be repeated up to a maximum of three times (nine credits) Prerequisite: ADMI 6531 The course covers important topics in the area of human behavior and their implications for today's managers. Areas such as: consumer behavior, variation in employee behavior, implementation of MS/OR models, design of the MAPS organization method,

implication of accounting in behavior, and other topics of discussion are covered. The moles discussed are selected according to the interests and needs of the students. This course will be conducted in the form of a seminar. Both theoretical and operational aspects will be discussed, applied to each of the topics.

ADMI 6735 Labor Legislation and Jurisprudence

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6531- 6532 Study of federal and state legislation, as well as jurisprudence regarding hours, wages, strikes, boycotts, pickets, recognition of unions, and legality of collective agreements.

ADMI 6736 Leadership and Interpersonal Relations in Organizations

Three credits. Three hours of lecture a week.

Study and analysis of leadership theories with emphasis on the relationship between interpersonal dynamics and effective leadership. The development of interpersonal skills that will enable the student to exert effective influence will be highlighted. It will investigate the implementation of interventions for the production of information that harmonizes differences and, consequently, achieves the learning and commitment of the parties involved.

ADMI 6995 Cooperative Education Experience

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 one semester of graduate study and a minimum GPA of 3.00.

Experience in applying theoretical knowledge of the business field in a full-time, paid, academically supervised job. Face-to-face, hybrid and online course.

ADMI 8005 Doctoral Seminar

A credit. Five three-hour seminar sessions during the semester. Prerequisite: Be a student of the Doctoral Program Discussion of contemporary research and empirical issues relevant to the field of business administration. Study of the ethical, environmental and social dilemmas and implications of managerial decisions, business theory and activities, and education methodology. Development of electronic information search skills and writing publishable articles. Topics will vary each time the seminar is offered. This course will be repeated a maximum of four times (four credits).

ADMI 8105 Doctoral Dissertation

Four credits. Four hours of doctoral dissertation per week.

Prerequisite: Have passed the comprehensive examination of the specialty.

The doctoral dissertation course is the space created for the student to demonstrate that they possess the ability to create and defend a proposal and conclude a doctoral thesis. This process is carried out with the assistance of the advisory committee, which has the main function of assisting the student in the elaboration of a product of the highest quality. The student will have to complete a minimum of twelve credits (three courses) of doctoral dissertation.

INTERNATIONAL TRADE**COIN 6700 Management Strategy in a Global Environment**

Three credits. Three hours of discussion a week.

Prerequisite: ADMI 6531 Analysis of practical theories and international management systems within a social environment that includes considerations of cultural anthropology, environmental conditions, strengths and limitations of available resources, organizational structures, organizations, and values within a global environment.

COIN 6702 International Business Theory and Environment

Three credits. Three hours of discussion a week.

This introductory course focuses on the environments and challenges faced by companies operating in an international market of constant change and uncertainty. The course makes a critical examination of the theories and development of international business from the firm involved solely in the export and/or import process to the firm that expands using foreign direct investment. The unit of analysis of this course is the company.

COIN 6703 International Business and Market Research

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6552 or equivalent This course explains the process of international business and market research in a practical, ethical, and legal manner. The course has a practical and theoretical approach with extensive discussions of the problems when researching in various markets. The following elements are presented: research design and methods, instrument development, sampling, data collection, analysis, and presentation of results.

COIN 6705 Seminar on International Economics

Three credits. Three hours of discussion per week Prerequisites: 6501 and ECOG 6567

This course provides the student with the basic framework on the effect of the economic environment on international business. The international economic environment in which the corporate company operates will be analyzed and discussed.

COIN 6706 International Business in Latin America and the Caribbean

Three credits. Three hours of discussion a week.

Prerequisite: COIN 6702 or director's permission.

This course explores conceptual approaches to study international business in Latin America and the Caribbean, the syllabus is divided into four components: Typology of international business in the region; international business and regional research agreements; international business, natural resources and environmental conflicts; and sustainable investment and trade. This course will be offered in face-to-face, hybrid and distance learning modalities.

COIN 6707 International Logistics and Operations Management

Three credits. Three hours of discussion a week.

Prerequisites: GEOP 6539, MERC 6541 Study of issues related to the use of global operations to improve supply chain performance and international competitiveness.

Discussion of topics related to the creation of global operations and distribution projects to level customer-supplier and subsidiary relationships. Analysis on the streamlining of the value chain, improving the coordination and execution of distribution channels.

COIN 6708 Legal Aspects of Global Trade

Three credits. Three hours of discussion a week.

Study of the most important legal aspects when establishing global business operations. Introduction to Public International Law and those concepts that directly or indirectly affect trade and commercial disputes. Detailed discussion of the institutions, issues, and controversies currently arising in trade between nations. Topics such as: sovereignty of nations, international treaties (e.g., GATT, NAFTA), the United Nations and its structure, the European Union, international trade dispute settlement mechanisms, global intellectual property issues, and international tax aspects are discussed.

COIN 8005 Seminar on International Trade

Three credits. Three hours of seminar per week.

Prerequisites: ECOG 6701, ECOG 6703, MECU 8005.

Discussion of the concepts and theories of international trade, the advantages and disadvantages of economic and political agreements between countries, as well as the alternatives of international management policies used by firms, especially those used by Latin American firms. Study of the institutions and processes that affect the international conduct of business, the interrelationship between nations and international firms.

COIN 8006 Legal Aspects and Regulations of International Trade

Three credits. Three hours of discussion a week.

Study and analysis of current and emerging national laws and regulations for decision-making related to international trade, as well as institutions that regulate international transactions. It includes the nature and legal, governmental and political aspects that affect the business transactions of multinational companies in Latin America and the Caribbean.

COIN 8015 International Organizational Design, Structure and Culture

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study of the most recent theories on organizational design, structure, and culture and their effect on the performance, efficiency, effectiveness, and adaptability of the international enterprise. Emphasis on cultural manifestations in the company's performance and ways of managing them.

COIN 8016 Comparative Business Systems

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study and analysis of procedural, structural, and power differences, among others, within the organization in different countries. Emphasis on the comparison of business processes and practices in the United States, Europe, Japan, Latin America and the Caribbean, using as a reference the emerging literature on organizational culture, organizational sciences and classical contingency theory.

COIN 8025 International Economy and Finance

Three credits. Three hours of discussion a week.

Prerequisite: ECOG 6701 or its equivalent, 6703 or its equivalent Study of the international monetary system and its role in determining the exchange rate of international currencies. Analysis of the factors influencing international investments, the characteristics of international financial institutions and their relationship with domestic markets.

COIN 8026 International Strategic Management

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study of different schemes to evaluate the competitive position in an environment of uncertainty and of descriptive models of the future performance of the company competing in international industries. Discussion of comparisons between multi-domestic and transnational strategies and global alliances, including Latin American companies.

COIN 8027 Contemporary Issues in International Trade and Business

Three credits. Three hours of lecture a week.

Prerequisites: COIN 8005 Study of research theories and methodologies of contemporary issues in the fields of international trade and business. The course can be repeated up to a maximum of four times, as long as the topic is not repeated.

COIN 8028 International Marketing Strategies

Three credits. Three hours of discussion a week. Prerequisite: COIN 8005

Critical Analysis and Development of Marketing Strategies and Tactics

used by multinational corporations in international markets. Face-to-face, hybrid and online course.

ACCOUNTING**CONT 6701 Theory and Problems of Financial Accounting I**

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 Critical study of the concepts and standards underlying periodic financial statements. Classification and quantification problems in the preparation of corporate reports in general and in the preparation of special reports for management to reach decisions. The following topics are included: review of basic concepts and rules, determination, distribution and expiration of costs, revaluation of assets, etc.

CONT 6702 Theory and Problems of Financial Accounting II

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 Emphasis is placed on financial accounting for corporations, but equity in non-corporate institutions is also included. Topics to be discussed include: sources of capital, bonds, income, pension fund debts, convertible bonds and equity of surpluses, cash movements, intracorporate investments and other investments, consolidation through mergers, specific problems of companies.

CONT 6705 Cost Analysis and Control

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 This course introduces the fundamental methods and procedures for the determination and control of costs of materials, labor, and indirect costs of manufacturing. Emphasis is given to the usefulness of cost accounting for managerial decisions and for the preparation of historical statistics and microeconomic projections of the firm, the control of costs through accountability accounting, standard costs, the establishment of budgets, norms and analysis of variations, effective communication that points out the success or failure achieved by the various plans of action.

CONT 6707 Contributory Matters for Managers

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 or Teacher's Permission Introduction to Contributory Matters of Relevance to Managers. The different tax laws of the Commonwealth of Puerto Rico and their effects on decision-making are discussed. In addition, legal provisions relating to property taxation, excise duties and tariffs, as well as other sources of state and municipal government revenue are considered. The course also addresses relevant aspects of federal and state income taxation and analyzes its impact on managerial decision-making.

CONT 6709 Theory and Philosophy of Auditing

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 The social function of the auditor is emphasized and the student is familiarized with the standards, objectives, and procedures of the audit. It includes ethics, legal responsibility, the area to be covered, the objectives and nature of an audit, the administration of an audit, modern audit procedures and techniques. Modern techniques include statistical sampling and the use of electronic systems in auditing. In addition, the role of an auditor as a consultant to the manager on tax matters and other aspects of the business is discussed. The readings are supplemented by problems and cases.

CONT 6719 Accounting Seminar

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701-6702 This course will be used to study various contemporary topics of relevance to the field of accounting, both in their theoretical and practical aspects.

CONT 6725 Budget Concepts and Practices: Planning and Control

Three credits. Three lecture hours per week Prerequisite: CONT 6501 An integrated approach to planning and control processes including aspects of budget goals and objectives, technical procedures, and how the budget affects the organization. It also discusses how to measure and control divisional performance.

CONT 6735 International Accounting

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 and CONT 6702 Study of accounting aspects typical of multinational companies, such as foreign currency transactions, transfer pricing and international taxes.

MANAGERIAL ECONOMICS

ECOG 6701 Managerial Micro-economics: Price Theory

Three credits. Three hours of lecture a week.

In this course we will study different approaches to microeconomics and its components: markets (supply and demand); production theory; markets and costs according to the various market structures (perfect competition, monopoly, and imperfect competition). This analysis will integrate a history perspective of economic thought and establish relationships with the study of business and international trade. The course will be offered in a research-based learning format. This course will be offered in face-to-face, hybrid and distance learning modalities.

ECOG 6703 Managerial Macroeconomics: Theory of Money and Income

Three credits. Three hours of lecture per week Prerequisite: ECOG 6611 A course in aggregate economic theories. It includes the analysis of the determination of national income, production, employment and price level. It examines the effect on the level of employment and the price level of factors such as consumption, investment, the quantity of money in circulation, the interest rate, monetary policy, fiscal policy, and public debt management policy. In addition, the theoretical analysis is related to current economic problems and how they affect the company.

ECOG 6735 Caribbean Economic Development

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 or Director's Permit Analyzes the characteristics and patterns of economic development in the Greater Caribbean. It discusses the contributions of Caribbean authors and the history of economic development theory thought. It analyzes the industrialization strategies that have been implemented in the area, as well as alternative models of economic development and industrial policies. The particularity of the topics addressed in the course is that they are focused on companies as opposed to the approach of economics or sociology. Each semester, contemporary issues and debates are incorporated. This course will be offered in face-to-face, hybrid or distance learning.

ECOG 8005 Managerial Macroeconomics

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 or equivalent, Calculus I This course at the doctoral level includes the analysis of national income, employment and the price level. It analyzes fiscal and monetary policies and how they affect the three aggregate measures of the economy, mentioned above. It explores the different theories and their implications for the relationships between government policies and national welfare.

FINANCE

6621 Banking and Other Financial Institutions

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6611 or Teacher's Permit Commercial banking and non-bank financial institutions are examined. In addition, the principles and problems of currency, central banking, and international finance are examined. Emphasis is placed on the implementation and evaluation of monetary policy.

6703 Advanced Business Finance

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501, 6501 and MECU 6551 Theory and practice of corporate finance, asset management, capital budgeting and optimization problems and socio-economic aspects of financial management. The use of quantitative tools is emphasized and real cases are analyzed.

6707 Investments

Three credits. Three hours of lecture a week.

Prerequisite: 6501, MECU 6551 Investment principles and practices, with special emphasis on investment analysis, elements involved in the investment process and establishment of criteria for choosing various investment alternatives. For this purpose, simulation and mathematical programming techniques are used.

6709 Real Estate Financing

Three credits. Three hours of lecture a week.

Prerequisite: 6621 and MECU 6551 It analyzes the mortgage market, the development and impact of private and government institutions that finance real estate, the problems in real estate investment and financing, the relationship that investment has in the capital market, and the role that credit plays in real estate markets.

6710 Options, Futures and Other Derivatives

Three credits. Three hours of discussion a week.

Prerequisite: CONT 6501, 6501 Intensive and extensive discussion of the theory and application of futures derivatives, perspectives, and investment instruments that are part of investment portfolio management and corporate financial risk control. Applications in the fields of investments and buying and selling operations. Detailed examination of the global market for synthetics and derivatives, particularly the role played by European investors. Discussion of legal, technological and accounting matters to the extent that they are part of the activities carried out in the derivatives market.

6711 Theory and Structure of Financial Markets

Three credits. Three hours of lecture a week.

Prerequisite: 6501 The structure of financial markets and the application of the latest monetary and economic theories of financial markets are discussed. It includes, among others, the following topics: the role of financial theory and policy, the implications of the structure of financial markets for the efficiency of market functioning, the interrelationships between real and financial variables in economic activity, and other related topics.

6713 Administration of Banks and Other Financial Institutions

Three credits. Three hours of lecture a week.

Prerequisite: 6621 or Director's permission.

Within the economic and legal framework, the basic and relevant principles for determining the management policy of the different financial institutions are analyzed. It includes the following topics: asset management, debt and capital, sources and uses of funds, competition among financial institutions and structural problems of the industry (branches, chains, mergers, etc.).

6717 International Trade and Finance

Three credits. Three hours of lecture a week.

Prerequisite: 6621 Analysis of Trade Theory and Policy and International Monetary Theory and Policy. Among other topics, the following are discussed: capital movements, balance of payments, currency exchange markets, adjustments in economic activity under the flexible currency exchange rate.

6719 Public Finance

Three credits. Three hours of lecture a week.

Prerequisite: 6501 The structure of sources and uses of government funds is critically studied. Emphasis is placed on tax problems in terms of their impact on the distribution of society's income and on the business cycle. It examines the secular growth of government expenditures and its significance as an index of the relative growth of the governmental sphere. It also analyzes the role of public expenditures and debt on income distribution and the business cycle.

6721 Research Seminar for the Field of Finance

Three credits. Three hours of lecture a week.

Prerequisite: Concentration in Finance in Graduate School It familiarizes the student with the logic and methods that are used in the field of contemporary business finance. In addition, individual or group research is carried out in the field of macrofinance including problems of structure and organization of financial markets, the way they determine prices and interest rates. The main aspects of national and international fund flows, public finance, economic development financing, as well as any area within aggregate finance. A faculty

member supervises and assists the student in the methodology of the research. Meetings and their content are determined according to the student's interest. The course may be repeated up to a maximum of 3 times for a total of 9 credits.

6725 International Investments

Three credits. Three hours of discussion a week.

Prerequisite: 6501, CONT 6501 or BBA with concentration in Finance or Accounting Study of the various macroeconomic, political, and social aspects that have combined for the individual and institutional investor to consider the alternative of investing in international markets. It examines the mechanisms used to minimize the risks caused by exchange rate volatility and the tactics used to take advantage of fluctuations in these markets.

8005 Financial Theory I

Three credits. Three hours of discussion a week.

Prerequisites: ECOG 6701, 6703 and MECU 8005 Discussion of the most recent trends in research in the financial discipline. Emphasis on the impact of theory on conceptual frameworks for research on the financial phenomenon in Latin America and the Caribbean. Critical analysis of recent legal, social and ethical issues in the financial and economic environment.

8006 Financial Theory II

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Discussion of the application of financial theory in the broad context of what a corporation is. Review of corporations in the manufacturing and service sectors. Study of the review of empirical evidence from the perspective of economic positivism. Emphasis on the application of financial theory in Latin America, the Caribbean and the United States.

8017 Quantitative Methods for Finance

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Study of the advanced methodological tools required to conduct research in finance and investment analysis. Emphasis on modern portfolio theory. Use of optimization and statistical analysis software to examine and evaluate corporations and investment markets in Latin America and the Caribbean.

8019 Independent Studies in Finance

Three credits. Three hours of independent study per week.

Prerequisite: 8006 Independent research in a specialized subject of interest in finance, which is offered in part or not included in other courses of the Doctoral Program. It is carried out in consultation with a professor who is an expert in the subject. This course can be repeated up to a maximum of two times (6 credits).

8025 Investment Markets

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Analysis of the various strands of the most recent research in this area and the interrelation with the impact of investment methods on local, Latin American and Caribbean markets. In addition, theoretical approaches that analyze the issue of decisions in investment markets in situations of uncertainty within the framework of other disciplines, such as accounting, micro and macroeconomics, are discussed.

8027 Corporate Finance

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Study of research findings on the most recent developments in the area of corporate finance. Discussion of the financial problems of the modern corporation and possible investigations for the solution of them. Critical analysis of the results of research projects dealing with the finances of modern Latin American corporations.

8029 Contemporary Issues in Financial Markets

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Integrative study on the structure and dynamics of international financial markets and their relationship with domestic markets. Emphasis on the most recent studies on the international optimization of the portfolio of financial assets.

OPERATIONS MANAGEMENT**GEOP 6703 Project and Process Management**

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6551 The course considers methods and techniques necessary to analyze, design, implement, and control processes and projects in organizations. In the topics related to process management, students learn to identify, model, evaluate and improve the efficiency of the organization's processes and their components. Project management examines the theory and best practices adopted by successful organizations, in particular the methods and techniques in their planning, execution, and control of activities. Students participate in structured workshops to examine processes

y projects.

GEOP 6706 Contemporary Issues in Operations Management

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6539, MECU 6551 Study of Contemporary and Transcendental Issues in Operations Management. Discussion of studies, techniques, methodology and diverse visions and their implications in different business sectors. Each time the course is offered, different topics will be offered. The student may enroll in the course a maximum of three times.

GEOP 6707 Advanced Production Management

Three credits. Three hours of lecture a week.

Prerequisite: GEOP 6639 Readings and cases covering the following areas are examined: functional location of equipment and machinery, acquisition of facilities, selection of equipment, physical format of the plant, establishment of quality and production standards, purchase of materials, warehouse operation, inventory control, and worker incentive systems.

GEOP 6708 Operations Management for Service Companies

Three credits. Three hours of discussion a week.

Prerequisite: GEOP 6639 Discussion of concepts and topics that aid the understanding of particular aspects in the operations of companies that provide services. Study of the latest trends and characteristics of various industries in the service sector, as well as methodologies designed to improve the productivity of private and public service organizations.

GEOP 6723 Statistical Quality Control

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 The use of statistical techniques (control charts) to detect special causes and to locate responsibility for reducing variability in quality. Statistical techniques for determining the standards and specifications of a product. Considerations of the associated costs in quality control. Design of procedures for acceptance, rejection or repair of product batches, and the influence of these decisions on inventory policy. Methods of statistical control in supervision and their application to the administration and personnel policy of a company. Elementary theory of accounting for complex components and equipment. Maintenance and replacement of equipment.

GEOP 6726 Quality Management

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

Prerequisite: MECU 6551 Study of managerial activities related to the administration of the quality function in service and manufacturing companies.

GEOP 6735 Supply Chain Management

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6639 Study of the management of the flow of materials and information through the different stages of the organization. The most important individual activities of a supply chain and the interactions between them are considered to form an efficient organizational collective. This course will provide the student with the knowledge and tools necessary to develop, implement, and sustain strategies for the management of supply chain issues.

QUANTITATIVE METHODS**MECU 6703 Statistical Inference**

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6701 or permission of the Director Theory of Estimation Assumption and Confidence Intervals. Subjective probability, a priori and a posteriori distributions, the likelihood principle, and Bayes' theorem, Bayesian inference. Non-parametric tests and freely distributed methods.

MECU 6709 Decision Theory

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 or its equivalent Methods of analysis under uncertain conditions, including the use of subjective probability and utility theory. Applied probabilistic models. Contemporary methods are compared with classical ones.

MECU 6715 Econometrics I

Three credits.

Prerequisite: MECU 6551, MECU 6651, ECOG 6567 Formulation, estimation and testing of various economic models on demand and production. Emphasis is placed on the use of econometric techniques to solve problems for firms and industrial sectors.

MECU 6717 Econometrics II

Three credits.

Prerequisite: MECU 6715 Considers autocorrelation problems, delayed variable models, errors in variables, and other problems. It considers techniques for short- and long-term forecasting of commercial activity for both the economy and firms and industrial sectors.

MECU 6725 Quantitative Methods for Management Decisions

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 This course provides an introduction to quantitative models used in the managerial and administrative sciences. Deterministic and stochastic models are discussed, as well as descriptive and normative models. The main focus of this course is on the formulation and use of descriptive and normative models. The main focus of this course is on the formulation, use of mathematical and programmed models, and on the analysis and interpretation of the results. The course provides a comprehensive foundation of analytical tools for other courses.

MECU 6739 Multiple Variable Analysis

Three credits. Three hours of discussion a week.

Prerequisite: MECU 6551 This course provides an introduction to the use of the most commonly used techniques in multivariable analysis. The theory of each technique will be discussed, the most common particular problems in its application, the correct way to interpret and present the results. The course will be complemented by the use of a statistical program. During the course, examples of the different specialties of the managerial and administrative sciences will be discussed.

MECU 8005 Integrated Probabilistic and Statistical Analysis

Three credits. Three hours of discussion a week.

Prerequisite: 1. At least one statistics course at the master's level. 2. Mathematics courses that include concepts of differential and integral calculus. 3. Matrix algebra course or its equivalent. 4. Knowledge of a statistical program (e.g., SaaS, SPSS, NCSS, or MiniTAB).

Comprehensive study of the principles of probabilistic and statistical analysis. It includes the fundamentals of stochastic and deterministic models necessary to understand the modeling used in the business field.

MARKETING**MERC 6701 Advanced Marketing Management**

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541 A detailed analysis of the responsibilities of the distribution manager who plans, directs, and coordinates the activities of personnel in charge of specialized tasks, such as: advertising, sales, and market research. Special attention is given to the formulation of the general marketing policy and the planning of techniques for implementing that policy.

MERC 6705 Market Research

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541, MECU 6551 Emphasis is placed on marketing research methods to be used as criteria in problem solving and to increase marketing efficiency. All modern techniques are discussed, including the newest theoretical developments. The case and group project method is used.

MERC 6708 Consumer Motivation and Behavior

Three credits.

Course designed for sophomores concentrating on marketing. It studies the economics and psychology of consumer behavior and its applications in the marketing management profession.

MERC 6714 Product Strategy and Management

Three credits. Eight hours of lecture per week.

Prerequisite: MERC 6541 Topics Related to Marketing and Production Problems in a Multi-Product Firm. Strategy concepts and management philosophy in the optimal mix of products to be marketed. Factors that dominate the methods for developing the product marketing strategy; Planning, organization and control of the process to develop new products. The commercialization of new products. Cases will be studied.

MERC 6715 International Marketing

Prerequisite: MERC 6541 Three credits. Three hours of lecture a week.

The theory and practice of the international and interregional market. The condition of the international market, comparative market and international market groupings integrated with the theory of exchange. Special attention will be given to the problems of Latin America.

MERC 6717 Marketing Services

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541 The impact that marketing has had, among other things, the decrease in government intervention, the constant change in technology, the new perspectives on communication that professional associations have, and the evolution of the services market.

MERC 6719 Graduate Seminar in Marketing

Three credits. Three hours of seminar per week.

Prerequisite: MERC 6541, 6701 Discussion of strategic issues of the marketing process that lead to new paradigms that result in more effective and efficient orientations in the managerial executions of the business management. Variable content depending on the relevance of the topics at the time of offering the seminar. The student may repeat the course up to a maximum of nine credits, if the topics to be covered are different.

HUMAN RESOURCES**REHU 6705 Human Resources Management**

Three credits. Three hours of lecture a week.

Comprehensive introduction to the core contents of human resource management in various types of organizations. The course will examine the important principles of the discipline, enabling the student to recognize critical scenarios and attend to the various situations that arise in the company. Special emphasis will be given to the management of human resource planning, job analysis and design, the work system, recruitment, selection, performance, training, training, remuneration, compensation, fringe benefits, and labor-management relations. The course can be taken in hybrid mode.

REHU 6706 Administration of Compensation and Reward Systems

Three credits.

Prerequisites: REHU 6705 Discussion of Theories of Compensation and Rewards in Organizations. It highlights the process of design and implementation of compensation systems. In addition, he studies different topics, such as: job evaluation, the design of surveys and salary structures, salary increase programs, benefits programs, compensation to the management group, pay for skills, laws that affect the compensation system, among others.

REHU 6715 Seminar on Contemporary Issues in Human Resources Management

Three credits. Three hours of lecture a week.

Study of contemporary issues of human resources management of major importance in the field. Discussion of topics such as: multicultural workforce, compensation for skills, corporate policies on the use of controlled substances in the workplace, and work design in new organizations such as the "virtual organization."



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DEGREE: Online Master of Business Administration (iMBA)

The program is designed to be offered online and in twelve-week (quarter) terms. The graduate will possess knowledge, attitudes and skills that will allow him to contribute to the search for alternatives and possible solutions that enable business and organizational development in his environment.

ACCREDITATIONS: *Advance Collegiate Schools of Business International (AACSB)*

TEACHERS:

Maribel Aponte , PhD, University of Massachusetts, 1990, Professor. International Business and Development in Latin America and the Caribbean; Comparative Business Models; The Bolivarian Alliance for Our America; New Strategic Regionalism; Production and Trade Chains and Networks; Food Sovereignty; Visual research.

Jorge Ayala Cruz , PhD, Rensselaer Polytechnic Institute, 1993, Professor. System Dynamics; Strategic Operational Management; Supply Chain and Logistics Management; Quantitative Numerical Methods.

José Caraballo Cueto, PhD, The New School for Social Research, 2013, Associate Professor. X Goals, Economic Development, Human Development, Entrepreneurship.

Pedro González Cerrud , PhD, Lehigh University, 1992, Professor. Advanced Corporate Finance, Advanced Financial Accounting, Financial Statement Analysis, International Investments, Options, Futures and Other Derivatives, Quantitative Methods in Marketing.

Karen Orengo Serra , PhD, Sorbonne University, Paris, 2000, Professor. International Business: Theory, Strategic Management, Marketing and Entrepreneurship; emphasis on Internationalization of SMEs and Family Businesses.

Justin Paul, PhD, Indian Institute of Technology Bombay, 2003, Professor. International Marketing, Business in Asia and Emerging Markets, Strategic Management, Service Marketing.

Víctor Quiñones Cintrón , PhD, New York University, 1977, Professor. Customer Satisfaction and Post-Purchase Decisions; Integrated Communication in marketing and the exchange management process; Brand customization and its link to product positioning; strategic design during the life cycle of products.

Javier Rodríguez Ramírez, PhD, University of Houston, 2003, Associate Professor. Quantitative Methods in Finance; Behavioral Finance; Mutual Funds

Alex Ruiz-Torres, PhD, Pennsylvania State University, 1997, Professor. Operations and Supply Chain Management, Reverse Logistics, Production Planning.

Jimmy Torrez, PhD, University of California, 1998, Assistant Professor. Externalities of Free Trade; The Effect of Bureaucracy on Goods and Capital Markets; Market Inefficiencies; International Capital Markets.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

In addition to the requirements established by the Río Piedras Campus, all applicants must possess:

1. Baccalaureate or its equivalent from a recognized university.
2. Overall academic index of 3.00 points on a 4.00 scale.
3. Critical analysis skills.
4. Oral and written proficiency in Spanish and English.
5. At least one algebra-equivalent math course passed with a B or higher.
6. Ability to develop and understand quantitative and conceptual models.
7. Two years of professional experience

Documents required for the Application for Admission

1. Application for Admission to Graduate Studies through the "ApplyYourself" platform.
2. Transcript of credits (official-not student's copy) with the degree conferred.
3. Two recommendations for graduate studies in electronic format.
4. Essay (500-900 words) with the statement of motivation to pursue graduate studies in electronic format.
5. If necessary, interview with the admissions committee.

GRADUATION REQUIREMENTS:

In addition to the graduation requirements applicable to the Rio Piedras Campus graduate programs, the student must:

1. Complete all required courses (33 credits) for the degree with an academic index of no less than 3.00 points.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	27
ADMI 6540 Leadership and Business Ethics	3
ADMI 6590 Fundamentals of Entrepreneurship	3
ADMI 6595 Strategic Management	3
CONT 6501 Accounting for Analysis and Control	3
6501 Business Finance	3
GEOP 6539 Operations and Supply Chain Management	3
MECU 6551 Statistical Thinking and Descriptive Analytics	3
MECU 6552 Analytics for Decision Making	3
MERC 6541 Marketing Management	3
Electives/Contemporary Themes	6
Total Credits	33

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ADMI 6540 Leadership and Business Ethics

Three credits. Three hours of lecture a week.

Integrated study of the nature and responsibilities of a leader, as it applies to managerial activity. The course examines the fundamental factors of effective leadership in organizations and their ethical integration into the management process through four basic themes: human behavior in the organization, leadership, the social environment of the company, and the relationship between the company and management. It examines transcendental concepts and theory of human resource management and diversity management in organizations.

ADMI 6590 Fundamentals of Entrepreneurship

Three credits.

Prerequisites: ADMI 6531, 6501, GEOP 6539 and MERC 6541 Integrated study of the nature and responsibilities of a leader, as it applies to managerial activity. The course examines the fundamental factors of effective leadership in organizations and their ethical integration into the management process through basic topics: human behavior in the organization, the social environment of the company, and the business-management relationship. It examines transcendental concepts and theories of human resource management and diversity management in organizations.

ADMI 6595 Strategic Management

Three credits.

Prerequisites: 6501, GEOP 6539, MERC 6541, ADMI 6637, ECOG 6567 Study of the approaches, practices and trends used in the formulation, establishment, evaluation and control of the actions necessary to develop and sustain the competitive advantage of the company. Emphasis on the integration of knowledge from the different functional areas of the company, interdisciplinary analysis, holistic and systemic reasoning, and teamwork. You will use the knowledge acquired in various courses of the master's degree to analyze complex situations.

CONT 6501 Accounting for Analysis and Control

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Introduction to concepts, terminologies, processes, problems, and methodologies of financial accounting (including tax accounting). This course emphasizes the needs of information management to perform consistent analysis and select optimal decisions for the planning and control of operations in order to increase the value of the company in an efficient and effective way in dynamic business environments.

6501 Business Finance

Three credits.

Introduction to the theory and practice of finance from the perspective of companies operating in competitive markets. It discusses basic analytical tools needed to make financial decisions that create value. Some topics examined are capital asset investments, valuation, financing, dividend policy, governance, risk management, international finance, working capital management, and financial planning. The course can be offered in face-to-face, hybrid, or online mode.

GEOP 6539 Operations and Supply Chain Management

Three credits. Three hours of discussion a week.

Prerequisites: MECU 6551 and ADMI 6552 Study of the planning, management and control of operations and supply chains in organizations. The course introduces several qualitative and quantitative techniques and methodologies of the discipline. It also explores tactical and strategic considerations necessary to underpin the organization's competitiveness from a systemic perspective. The course discusses contemporary global and technological factors influencing operational and supply chain decision-making. The course can be offered in face-to-face, hybrid, or online mode.

MECU 6551 Statistical Thinking and Descriptive Analytics

Three credits. Three hours of lecture a week.

Study of the fundamentals of descriptive statistics, probability, probability distributions, and classical and Bayesian inference. The course introduces the use of "statistical thinking" in business problem modeling. The course can be offered in face-to-face, hybrid, or online mode.

MECU 6552 Analytics for Decision Making

Three credits.

Prerequisites: MECU 6551 Study of the formulation, analysis and solution of quantitative models to support decision-making. Through the application of various tools, students will examine data and situations, develop models, recommend actions, and evaluate the impact of each action on specific objectives. It provides hands-on experience working with various quantitative models, emphasizing applications in various areas, functions, and business contexts.

MERC 6541 Marketing Management

Three credits. Three hours of lecture a week.

Prerequisites: MECU 6551 and ADMI 6531 Study of the strategic process carried out by for-profit and non-profit organizations, in their management to satisfy the needs and desires of their external and internal customers. In this comprehensive introduction to the field, students improve their ability to make effective marketing decisions, including evaluating

opportunities and developing strategies that meet the expectations of all involved. The course can be offered in face-to-face, hybrid, or online mode.

OTHER COURSE DESCRIPTIONS:

ADMINISTRATION

ADMI 6531 Management and Leadership

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Fundamentals of the Management Process in Organizations. Integration of contemporary approaches to the study of organizational behavior, the human aspect in organizations and leadership in business administration and management. In this course, face-to-face and online interaction can be combined.

ADMI 6595 Strategic Management

Three credits. Three hours of lecture a week.

Prerequisites: ADMI 6531, ADMI 6637, CONT 6501, 6501 GEOP 6539, MECU 6552 and MERC 6541.

Study of the approaches, practices and trends used in the formulation, establishment, evaluation and control of the actions necessary to develop and sustain the competitive advantage of the company. Emphasis on the integration of knowledge from the different functional areas of the company, interdisciplinary analysis, holistic and systemic reasoning, and teamwork. You will use the knowledge acquired in various courses of the master's degree to analyze complex situations.

ADMI 6631 Human Conduct in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6531 - 6532 Through the discussion of readings and real cases, the student is trained in the systematic analysis of the problems and situations that involve the human element in the company. The consistencies and inconsistencies between the pressures external to the company are observed, how they affect the feelings of its members, how they are reflected in the behavior patterns of these members. It examines, for example, the authoritarian management style versus the one that gives subordinates participation in decisions; the emotional problems posed by a dynamic or static environment and ways to motivate productivity.

ADMI 6632 Theory and Organizational Change

Three credits. Three hours of discussion a week.

Prerequisite: ADMI 6531 Study of theory and change in business enterprises from various perspectives. Emphasis on the development of analytical skills to better understand business complexity and produce alternatives for action that lead to change and improvement.

ADMI 6633 Personnel Administration and Industrial Relations

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6531 - 6532 The problem of human resources in enterprise and society, the functions and techniques of personnel administration, the nature of industrial relations, the function, the process of collective bargaining, management and union in the management of industrial relations, the policy of personnel administration, industrial relations and the public interest.

ADMI 6635 Business, Government & Society

Three credits. Three hours of lecture a week.

Prerequisite: Graduate School Admission or Principal's Permit.

Definition of the company's relations with the government and with society in general. The role of government as an essential element of the business environment is noteworthy, for example, in the structuring and implementation of antitrust and minimum wage laws, tax reforms, and environmental sanitation provisions. The course discusses the manager's public accountability and effective participation in legislative, executive, and judicial processes.

ADMI 6637 Business Ethics

Three credits. Three hours of lecture a week.

Prerequisite: Principal's permission.

Integrated study of the humanities and information from the behavioral sciences as they apply to economic activity to give the future manager the philosophical perspective he needs. Analysis of the development of a philosophy for free enterprise and the image of man according to humanistic studies and behavioral sciences. An examination of the equal needs and unequal capacities of men inherent in the labor-capitalist conflict, as well as an analysis of its dynamics and of those schools of thought that attempt to find common ground in common agreement. Exploration of the impact of different philosophies on ethics to produce a society that progressively approaches the equitable distribution of economic goods. Face-to-face, hybrid and online course.

ADMI 6650 Planning and Organization of New Businesses

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6532, MECU 6551 and CONT 6501 This course will study the opportunities for starting a business and will confront the student with a series of problematic situations through which they will develop an understanding of these existing opportunities. It will explore the need for information gathering to take advantage of future opportunities in improving a business. It will make the student aware of the risks, rewards, and difficulties that may be encountered in running a business and in the method to be used to solve these difficulties. Special attention will be given to the method of developing estimates of a potential market, the planning of a business's market entry, and the types of production or operational processes.

ADMI 6715 Research Methodology for Management and Administrative Sciences

Three credits. Three hours of discussion a week.

Study of managerial and administrative research. Emphasis on its applicability to solve problems and formulate theoretical management studies. Discussion of readings and cases related to the procedures used in the construction of managerial theories by thought leaders of the managerial and administrative sciences. In addition, it will discuss how paradigms emerge and how established ones have been transformed.

ADMI 6728 Seminar in the Field of Human Behavior

Three credits. Three hours of lecture a week.

This course can be repeated up to a maximum of three times (nine credits) Prerequisite: ADMI 6531 The course covers important topics in the area of human behavior and their implications for today's managers. Areas such as: consumer behavior, variation in employee behavior, implementation of MS/OR models, design of the MAPS organization method, implication of accounting in behavior, and other topics of discussion are covered. The topics discussed are selected according to the interests and needs of the students. This course will be conducted in the form of a seminar. Both theoretical and operational aspects will be discussed, applied to each of the topics.

ADMI 6735 Labor Legislation and Jurisprudence

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6531- 6532 Study of federal and state legislation, as well as jurisprudence regarding hours, wages, strikes, boycotts, pickets, recognition of unions, and legality of collective agreements.

ADMI 6736 Leadership and Interpersonal Relations in Organizations

Three credits. Three hours of lecture a week.

Study and analysis of leadership theories with emphasis on the relationship between interpersonal dynamics and effective leadership. The development of interpersonal skills that will enable the student to exert effective influence will be highlighted. It will investigate the implementation of interventions for the production of information that harmonizes differences and, consequently, achieves the learning and commitment of the parties involved.

ADMI 6995 Cooperative Education Experience

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 one semester of graduate study and a minimum GPA of 3.00.

Experience in applying theoretical knowledge of the business field in a full-time, paid, academically supervised job. Face-to-face, hybrid and online course.

ADMI 8005 Doctoral Seminar

A credit. Five three-hour seminar sessions during the semester. Prerequisite: Be a student of the Doctoral Program Discussion of contemporary research and empirical issues relevant to the field of business administration. Study of the ethical, environmental and social dilemmas and implications of managerial decisions, business theory and activities, and education methodology. Development of electronic information search skills and writing publishable articles. Topics will vary each time the seminar is offered. This course will be repeated a maximum of four times (four credits).

ADMI 8105 Doctoral Dissertation

Four credits. Four hours of doctoral dissertation per week.

Prerequisite: Have passed the comprehensive examination of the specialty.

The doctoral dissertation course is the space created for the student to demonstrate that they possess the ability to create and defend a proposal and conclude a doctoral thesis. This process is carried out with the assistance of the advisory committee, which has the main function of assisting the student in the elaboration of a product of the highest quality. The student will have to complete a minimum of twelve credits (three courses) of doctoral dissertation.

INTERNATIONAL TRADE**COIN 6700 Management Strategy in a Global Environment**

Three credits. Three hours of discussion a week.

Prerequisite: ADMI 6531 Analysis of practical theories and international management systems within a social environment that includes considerations of cultural anthropology, environmental conditions, strengths and limitations of available resources, organizational structures, organizations, and values within a global environment.

COIN 6702 International Business Theory and Environment

Three credits. Three hours of discussion a week.

This introductory course focuses on the environments and challenges faced by companies operating in an international market of constant change and uncertainty. The course makes a critical examination of the theories and development of international business from the firm involved solely in the export and/or import process to the firm that expands using foreign direct investment. The unit of analysis of this course is the company.

COIN 6703 International Business and Market Research

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6552 or equivalent This course explains the process of international business and market research in a practical, ethical, and legal manner. The course has a practical and theoretical approach with extensive discussions of the problems when researching in various markets. The following elements are presented: research design and methods,

instrument development, sampling, data collection, analysis, and presentation of results.

COIN 6705 Seminar on International Economics

Three credits. Three hours of discussion per week Prerequisites: 6501 and ECOG 6567

This course provides the student with the basic framework on the effect of the economic environment on international business. The international economic environment in which the corporate company operates will be analyzed and discussed.

COIN 6706 International Business in Latin America and the Caribbean

Three credits. Three hours of discussion a week.

Prerequisite: COIN 6702 or director's permission.

This course explores conceptual approaches to study international business in Latin America and the Caribbean, the syllabus is divided into four components: Typology of international business in the region; international business and regional research agreements; international business, natural resources and environmental conflicts; and sustainable investment and trade. This course will be offered in face-to-face, hybrid and distance learning modalities.

COIN 6707 International Logistics and Operations Management

Three credits. Three hours of discussion a week.

Prerequisites: GEOP 6539, MERC 6541 Study of issues related to the use of global operations to improve supply chain performance and international competitiveness.

Discussion of topics related to the creation of global operations and distribution projects to level customer-supplier and subsidiary relationships. Analysis on the streamlining of the value chain, improving the coordination and execution of distribution channels.

COIN 6708 Legal Aspects of Global Trade

Three credits. Three hours of discussion a week.

Study of the most important legal aspects when establishing global business operations. Introduction to Public International Law and those concepts that directly or indirectly affect trade and commercial disputes. Detailed discussion of the institutions, issues, and controversies currently arising in trade between nations. Topics such as: sovereignty of nations, international treaties (e.g., GATT, NAFTA), the United Nations and its structure, the European Union, international trade dispute settlement mechanisms, global intellectual property issues, and international tax aspects are discussed.

COIN 8005 Seminar on International Trade

Three credits. Three hours of seminar per week.

Prerequisites: ECOG 6701, ECOG 6703, MECU 8005.

Discussion of the concepts and theories of international trade, the advantages and disadvantages of economic and political agreements between countries, as well as the alternatives of international management policies used by firms, especially those used by Latin American firms. Study of the institutions and processes that affect the international conduct of business, the interrelationship between nations and international firms.

COIN 8006 Legal Aspects and Regulations of International Trade

Three credits. Three hours of discussion a week.

Study and analysis of current and emerging national laws and regulations for decision-making related to international trade, as well as institutions that regulate international transactions. It includes the nature and legal, governmental and political aspects that affect the business transactions of multinational companies in Latin America and the Caribbean.

COIN 8015 International Organizational Design, Structure and Culture

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study of the most recent theories on organizational design, structure, and culture and their effect on the performance, efficiency, effectiveness, and adaptability of the international enterprise. Emphasis on cultural manifestations in the company's performance and ways of managing them.

COIN 8016 Comparative Business Systems

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study and analysis of procedural, structural, and power differences, among others, within the organization in different countries. Emphasis on the comparison of business processes and practices in the United States, Europe, Japan, Latin America and the Caribbean, using as a reference the emerging literature on organizational culture, organizational sciences and classical contingency theory.

COIN 8025 International Economy and Finance

Three credits. Three hours of discussion a week.

Prerequisite: ECOG 6701 or its equivalent, 6703 or its equivalent Study of the international monetary system and its role in determining the exchange rate of international currencies.

Analysis of the factors influencing international investments, the characteristics of international financial institutions and their relationship with domestic markets.

COIN 8026 International Strategic Management

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study of different schemes to evaluate the competitive position in an environment of uncertainty and of descriptive models of the future performance of the company competing in international industries. Discussion of comparisons between multi-domestic and transnational strategies and global alliances, including Latin American companies.

COIN 8027 Contemporary Issues in International Trade and Business

Three credits. Three hours of lecture a week.

Prerequisites: COIN 8005 Study of research theories and methodologies of contemporary issues in the fields of international trade and business. The course can be repeated up to a maximum of four times, as long as the topic is not repeated.

COIN 8028 International Marketing Strategies

Three credits. Three hours of discussion a week. Prerequisite: COIN 8005

Critical Analysis and Development of Marketing Strategies and Tactics

used by multinational corporations in international markets. Face-to-face, hybrid and online course.

ACCOUNTING**CONT 6501 Accounting for Analysis and Control**

Three credits. Three hours of lecture a week.

Introduction to concepts, terminologies, processes, problems, and methodologies of managerial and financial accounting (including tax accounting). This course emphasizes the needs of information management to perform consistent analysis and select optimal decisions for the planning and control of operations in order to increase the value of the company in an efficient and effective way, in dynamic business environments. The course can be offered in face-to-face, hybrid or online mode.

CONT 6701 Theory and Problems of Financial Accounting I

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 Critical study of the concepts and standards underlying periodic financial statements. Classification and quantification problems in the preparation of corporate reports in general and in the preparation of special reports for management to reach decisions. The following topics are included: review of basic concepts and rules, determination, distribution and expiration of costs, revaluation of assets, etc.

CONT 6702 Theory and Problems of Financial Accounting II

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 Emphasis is placed on financial accounting for corporations, but equity in non-corporate institutions is also included. Topics to be discussed include: sources of capital, bonds, income, pension fund debts, convertible bonds and equity of surpluses, cash movements, intracorporate investments and other investments, consolidation through mergers, specific problems of companies.

CONT 6705 Cost Analysis and Control

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 This course introduces the fundamental methods and procedures for the determination and control of costs of materials, labor, and indirect costs of manufacturing. Emphasis is given to the usefulness of cost accounting for managerial decisions and for the preparation of historical statistics and microeconomic projections of the firm, the control of costs through accountability accounting, standard costs, the establishment of budgets, norms and analysis of variations, effective communication that points out the success or failure achieved by the various plans of action.

CONT 6707 Contributory Matters for Managers

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 or Teacher's Permission Introduction to Contributory Matters of Relevance to Managers. The different tax laws of the Commonwealth of Puerto Rico and their effects on decision-making are discussed. In addition, legal provisions relating to property taxation, excise duties and tariffs, as well as other sources of state and municipal government revenue are considered. The course also addresses relevant aspects of federal and state income taxation and analyzes its impact on managerial decision-making.

CONT 6709 Theory and Philosophy of Auditing

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 Emphasis should be placed on the social function of the auditor by familiarizing the student with the standards, objectives, and procedures of auditing. It includes ethics, legal responsibility, the area to be covered, the objectives and nature of an audit, the administration of an audit, modern audit procedures and techniques. Modern techniques include statistical sampling and the use of electronic systems in auditing. In addition, the role of an auditor as a consultant to the manager on tax matters and other aspects of the business is discussed. The readings are supplemented by problems and cases.

CONT 6719 Accounting Seminar

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701-6702 This course will be used to study various contemporary topics of relevance to the field of accounting, both in their theoretical and practical aspects.

CONT 6725 Budget Concepts and Practices: Planning and Control

Three credits. Three lecture hours per week Prerequisite: CONT 6501 An integrated approach to planning and control processes including aspects of budget goals and objectives, technical procedures, and how the budget affects the organization. It also discusses how to measure and control divisional performance.

CONT 6735 International Accounting

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 and CONT 6702 Study of accounting aspects typical of multinational companies, such as foreign currency transactions, transfer pricing and international taxes.

MANAGERIAL ECONOMICS**ECOG 6567 Managerial Economics**

Three credits. Three hours of lecture a week.

Prerequisites: Director's Permission Exposition of the basic principles of economics related to the neoclassical theory of firm. It comprises the integration of fundamental theories of microeconomics with applications in finance and econometrics, among other topics, with emphasis on the application of these theories in managerial decision-making in the business context. This course will be offered face-to-face, hybrid, and online.

ECOG 6701 Managerial Micro-economics: Price Theory

Three credits. Three hours of lecture a week.

In this course we will study different approaches to microeconomics and its components: markets (supply and demand); production theory; markets and costs according to the various market structures (perfect competition, monopoly, and imperfect competition). This analysis will integrate a history perspective of economic thought and establish relationships with the study of business and international trade. The course will be offered in a research-based learning format. This course will be offered in face-to-face, hybrid and distance learning modalities.

ECOG 6703 Managerial Macroeconomics: Theory of Money and Income

Three credits. Three hours of lecture per week Prerequisite: ECOG 6611 A course in aggregate economic theories. It includes the analysis of the determination of national income, production, employment and price level. It examines the effect on the level of employment and the price level of factors such as consumption, investment, the quantity of money in circulation, the interest rate, monetary policy, fiscal policy, and public debt management policy. In addition, the theoretical analysis is related to current economic problems and how they affect the company.

ECOG 6735 Caribbean Economic Development

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 or Director's Permit Analyzes the characteristics and patterns of economic development in the Greater Caribbean. It discusses the contributions of Caribbean authors and the history of economic development theory thought. It analyzes the industrialization strategies that have been implemented in the area, as well as alternative models of economic development and industrial policies. The particularity of the topics addressed in the course is that they are focused on companies as opposed to the approach of economics or sociology. Each semester, contemporary issues and debates are incorporated. This course will be offered in face-to-face, hybrid or distance learning.

ECOG 8005 Managerial Macroeconomics

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 or equivalent, Calculus I This doctoral level course includes the analysis of national income, employment, and the price level. It analyzes fiscal and monetary policies and how they affect the three aggregate measures of the economy, mentioned above. It explores the different theories and their implications for the relationships between government policies and national welfare.

FINANCE**6621 Banking and Other Financial Institutions**

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6611 or Teacher's Permit Commercial banking and non-bank financial institutions are examined. In addition, the principles and problems of currency, central banking, and international finance are examined. Emphasis is placed on the implementation and evaluation of monetary policy.

6703 Advanced Business Finance

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501, 6501 and MECU 6551 Theory and practice of corporate finance, asset management, capital budgeting and optimization problems and socio-economic aspects of financial management. The use of quantitative tools is emphasized and real cases are analyzed.

6707 Investments

Three credits. Three hours of lecture a week.

Prerequisite: 6501, MECU 6551 Investment principles and practices, with special emphasis on investment analysis, elements involved in the investment process and establishment of criteria for choosing various investment alternatives. For this purpose, simulation and mathematical programming techniques are used.

6709 Real Estate Financing

Three credits. Three hours of lecture a week.

Prerequisite: 6621 and MECU 6551 It analyzes the mortgage market, the development and impact of private and government institutions that finance real estate, the problems in real estate investment and financing, the relationship that investment has in the capital market, and the role that credit plays in real estate markets.

6710 Options, Futures and Other Derivatives

Three credits. Three hours of discussion a week.

Prerequisite: CONT 6501, 6501 Intensive and extensive discussion of the theory and application of futures derivatives, perspectives, and investment instruments that are part of investment portfolio management and corporate financial risk control. Applications in the fields of investments and buying and selling operations. Detailed examination of the global market for synthetics and derivatives, particularly the role played by European investors. Discussion of legal, technological and accounting matters to the extent that they are part of the activities carried out in the derivatives market.

6711 Theory and Structure of Financial Markets

Three credits. Three hours of lecture a week.

Prerequisite: 6501 The structure of financial markets and the application of the latest monetary and economic theories of financial markets are discussed. It includes, among others, the following topics: the role of financial theory and policy, the implications of the structure of financial markets for the efficiency of market functioning, the interrelationships between real and financial variables in economic activity, and other related topics.

6713 Administration of Banks and Other Financial Institutions

Three credits. Three hours of lecture a week.

Prerequisite: 6621 or director's permission.

Within the economic and legal framework, the basic and relevant principles for determining the management policy of the different financial institutions are analyzed. It includes the following topics: asset management, debt and capital, sources and uses of funds, competition among financial institutions and structural problems of the industry (branches, chains, mergers, etc.).

6717 International Trade and Finance

Three credits. Three hours of lecture a week.

Prerequisite: 6621 Analysis of Trade Theory and Policy and International Monetary Theory and Policy. Among other topics, the following are discussed: capital movements, balance of payments, currency exchange markets, adjustments in economic activity under the flexible currency exchange rate.

6719 Public Finance

Three credits. Three hours of lecture a week.

Prerequisite: 6501 The structure of sources and uses of government funds is critically studied. Emphasis is placed on tax problems in terms of their impact on the distribution of society's income and on the business cycle. It examines the secular growth of government expenditures and its significance as an index of the relative growth of the governmental sphere. It also analyzes the role of public expenditures and debt on income distribution and the business cycle.

6721 Research Seminar for the Field of Finance

Three credits. Three hours of lecture a week.

Prerequisite: Concentration in Finance in Graduate School It familiarizes the student with the logic and methods that are used in the field of contemporary business finance. In addition, individual or group research is carried out in the field of macrofinance including problems of structure

and the organization of financial markets, the way in which they determine prices and interest rates. The main aspects of national and international fund flows, public finance, economic development financing, as well as any area within aggregate finance. A faculty member supervises and assists the student in the methodology of the research. Meetings and their content are determined according to the student's interest. The course may be repeated up to a maximum of 3 times for a total of 9 credits.

6725 International Investments

Three credits. Three hours of discussion a week.

Prerequisite: 6501, CONT 6501 or BBA with concentration in Finance or Accounting Study of the various macroeconomic, political, and social aspects that have combined for the individual and institutional investor to consider the alternative of investing in international markets. It examines the mechanisms used to minimize the risks caused by exchange rate volatility and the tactics used to take advantage of fluctuations in these markets.

8005 Financial Theory I

Three credits. Three hours of discussion a week.

Prerequisites: ECOG 6701, 6703 and MECU 8005 Discussion of the most recent trends in research in the financial discipline. Emphasis on the impact of theory on conceptual frameworks for research on the financial phenomenon in Latin America and the Caribbean. Critical analysis of recent legal, social and ethical issues in the financial and economic environment.

8006 Financial Theory II

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Discussion of the application of financial theory in the broad context of what a corporation is. Review of corporations in the manufacturing and service sectors. Study of the review of empirical evidence from the perspective of economic positivism. Emphasis on the application of financial theory in Latin America, the Caribbean and the United States.

8017 Quantitative Methods for Finance

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Study of the advanced methodological tools required to conduct research in finance and investment analysis. Emphasis on modern portfolio theory. Use of optimization and statistical analysis software to examine and evaluate corporations and investment markets in Latin America and the Caribbean.

8019 Independent Studies in Finance

Three credits. Three hours of independent study per week.

Prerequisite: 8006 Independent research in a specialized subject of interest in finance, which is offered in part or not included in other courses of the Doctoral Program. It is carried out in consultation with a professor who is an expert in the subject. This course can be repeated up to a maximum of two times (6 credits).

8025 Investment Markets

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Analysis of the various strands of the most recent research in this area and the interrelation with the impact of investment methods on local, Latin American and Caribbean markets. In addition, theoretical approaches that analyze the issue of decisions in investment markets in situations of uncertainty within the framework of other disciplines, such as accounting, micro and macroeconomics, are discussed.

8027 Corporate Finance

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Study of research findings on the most recent developments in the area of corporate finance. Discussion of the financial problems of the modern corporation and possible investigations for the solution of them. Critical analysis of the results of research projects dealing with the finances of modern Latin American corporations.

8029 Contemporary Issues in Financial Markets

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Integrative study on the structure and dynamics of international financial markets and their relationship with domestic markets. Emphasis on the most recent studies on the international optimization of the portfolio of financial assets.

OPERATIONS MANAGEMENT**GEOP 6539 Operations and Supply Chain Management**

Three credits. Three hours of discussion a week.

Prerequisites: MECU 6551 and ADMI 6552 Study of the planning, management and control of operations and supply chains in organizations. The course introduces several qualitative and quantitative techniques and methodologies of the discipline. It also explores tactical and strategic considerations necessary to sustain the competitiveness of the organization from a systematic perspective. The course discusses contemporary global and technological factors influencing operational and supply chain decision-making.

GEOP 6703 Project and Process Management

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6551 The course considers methods and techniques necessary to analyze, design, implement, and control processes and projects in organizations. In the topics related to process management, students learn to identify, model, evaluate and improve the efficiency of the organization's processes and their components. Project management examines the theory and best practices adopted by successful organizations, in particular the methods and techniques in their planning, execution, and control of activities. Students participate in structured workshops to examine processes and projects.

GEOP 6706 Contemporary Issues in Operations Management

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6539, MECU 6551 Study of Contemporary and Transcendental Issues in Operations Management. Discussion of studies, techniques, methodology and diverse visions and their implications in different business sectors. Each time the course is offered, different topics will be offered. The student may enroll in the course a maximum of three times.

GEOP 6707 Advanced Production Management

Three credits. Three hours of lecture a week.

Prerequisite: GEOP 6639 Readings and cases covering the following areas are examined: functional location of equipment and machinery, acquisition of facilities, selection of equipment, physical format of the plant, establishment of quality and production standards, purchase of materials, warehouse operation, inventory control, and worker incentive systems.

GEOP 6708 Operations Management for Service Companies

Three credits. Three hours of discussion a week.

Prerequisite: GEOP 6639 Discussion of concepts and topics that aid the understanding of particular aspects in the operations of companies that provide services. Study of the latest trends and characteristics of various industries in the service sector, as well as methodologies designed to improve the productivity of private and public service organizations.

GEOP 6723 Statistical Quality Control

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 The use of statistical techniques (control charts) to detect special causes and to locate responsibility for reducing variability in quality. Statistical techniques for determining the standards and specifications of a product. Considerations of the associated costs in quality control. Design of procedures for acceptance, rejection or repair of product batches, and the influence of these decisions on inventory policy. Methods of statistical control in supervision and their application to the administration and personnel policy of a company. Elementary theory of accounting for complex components and equipment. Maintenance and replacement of equipment.

GEOP 6726 Quality Management

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

Prerequisite: MECU 6551 Study of managerial activities related to the administration of the quality function in service and manufacturing companies.

GEOP 6735 Supply Chain Management

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6639 Study of the management of the flow of materials and information through the different stages of the organization. The most important individual activities of a supply chain and the interactions between them are considered to form an efficient organizational collective. This course will provide the student with the knowledge and tools necessary to develop, implement, and sustain strategies for the management of supply chain issues.

QUANTITATIVE METHODS

MECU 6551 Statistical Thinking and Data Analysis

Three credits. Three hours of lecture a week.

Study of the fundamentals of descriptive statistics, probability, probability distributions, and classical and Bayesian inference. The course introduces the use of "statistical thinking" in business problem modeling.

MECU 6703 Statistical Inference

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6701 or permission of the Director Theory of Estimation Assumption and Confidence Intervals. Subjective probability, a priori and a posteriori distributions, the likelihood principle, and Bayes' theorem, Bayesian inference. Non-parametric tests and freely distributed methods.

MECU 6709 Decision Theory

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 or its equivalent Methods of analysis under uncertain conditions, including the use of subjective probability and utility theory. Applied probabilistic models. Contemporary methods are compared with classical ones.

MECU 6715 Econometrics I

Three credits.

Prerequisite: MECU 6551, MECU 6651, ECOG 6567 Formulation, estimation and testing of various economic models on demand and production. Emphasis is placed on the use of econometric techniques to solve problems for firms and industrial sectors.

MECU 6717 Econometrics II

Three credits.

Prerequisite: MECU 6715 Considers autocorrelation problems, delayed variable models, errors in variables, and other problems. It considers techniques for short- and long-term forecasting of commercial activity for both the economy and firms and industrial sectors.

MECU 6725 Quantitative Methods for Management Decisions

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 This course provides an introduction to quantitative models used in the managerial and administrative sciences. Deterministic and stochastic models are discussed, as well as descriptive and normative models. The main focus of this course is on the formulation and use of descriptive and normative models. The main focus of this course is on the formulation, use of mathematical and programmed models, and on the analysis and interpretation of the results. The course provides a comprehensive foundation of analytical tools for other courses.

MECU 6739 Multiple Variable Analysis

Three credits. Three hours of discussion a week.

Prerequisite: MECU 6551 This course provides an introduction to the use of the most commonly used techniques in multivariable analysis. The theory of each technique will be discussed, the most common particular problems in its application, the correct way to interpret and present the results. The course will be complemented by the use of a statistical program. During the course, examples of the different specialties of the managerial and administrative sciences will be discussed.

MECU 8005 Integrated Probabilistic and Statistical Analysis

Three credits. Three hours of discussion a week.

Prerequisite: 1. At least one statistics course at the master's level. 2. Mathematics courses that include concepts of differential and integral calculus. 3. Matrix algebra course or its equivalent. 4. Knowledge of a statistical program (e.g., SaaS, SPSS, NCSS, or MiniTAB).

Comprehensive study of the principles of probabilistic and statistical analysis. It includes the fundamentals of stochastic and deterministic models necessary to understand the modeling used in the business field.

MARKETING**MERC 6541 Marketing Management**

Three credits. Three hours of lecture a week.

Prerequisites: ADMI 6531 and MECU 6551 Study of the strategic process carried out by for-profit and non-profit organizations, in their management of satisfying the needs and desires of their external and internal customers. In this comprehensive introduction to the field, students improve their ability to make effective marketing decisions, including evaluating opportunities and developing strategies that meet the expectations of all involved.

MERC 6701 Advanced Marketing Management

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541 A detailed analysis of the responsibilities of the distribution manager who plans, directs, and coordinates the activities of personnel in charge of specialized tasks, such as: advertising, sales, and market research. Special attention is given to the formulation of the general marketing policy and the planning of techniques for implementing that policy.

MERC 6705 Market Research

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541, MECU 6551 Emphasis is placed on marketing research methods to be used as criteria in problem solving and to increase marketing efficiency. All modern techniques are discussed, including the newest theoretical developments. The case and group project method is used.

MERC 6708 Consumer Motivation and Behavior

Three credits.

Course designed for sophomores concentrating on marketing. It studies the economics and psychology of consumer behavior and its applications in the marketing management profession.

MERC 6714 Product Strategy and Management

Three credits. Eight hours of lecture per week.

Prerequisite: MERC 6541 Topics Related to Marketing and Production Problems in a Multi-Product Firm. Strategy concepts and management philosophy in the optimal mix of products to be marketed. Factors that dominate the methods for developing the product marketing strategy; Planning, organization and control of the process to develop new products. The commercialization of new products. Cases will be studied.

MERC 6715 International Marketing

Prerequisite: MERC 6541 Three credits. Three hours of lecture a week.

The theory and practice of the international and interregional market. The condition of the international market, comparative market and international market groupings integrated with the theory of exchange. Special attention will be given to the problems of Latin America.

MERC 6717 Marketing Services

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541 The impact that marketing has had, among other things, the decrease in government intervention, the constant change in technology, the new perspectives on communication that professional associations have, and the evolution of the services market.

MERC 6719 Graduate Seminar in Marketing

Three credits. Three hours of seminar per week.

Prerequisite: MERC 6541, 6701 Discussion of strategic issues of the marketing process that lead to new paradigms that result in more effective and efficient orientations in the managerial executions of the business management. Variable content depending on the

relevance of the topics at the time of offering the seminar. The student may repeat the course up to a maximum of nine credits, if the topics to be covered are different.

HUMAN RESOURCES

REHU 6705 Human Resources Management

Three credits. Three hours of lecture a week.

Comprehensive introduction to the core contents of human resource management in various types of organizations. The course will examine the important principles of the discipline, enabling the student to recognize critical scenarios and attend to the various situations that arise in the company. Special emphasis will be given to the management of human resource planning, job analysis and design, the work system, recruitment, selection, performance, training, training, remuneration, compensation, fringe benefits, and labor-management relations. The course can be taken in hybrid mode.

REHU 6706 Administration of Compensation and Reward Systems

Three credits.

Prerequisites: REHU 6705 Discussion of Theories of Compensation and Rewards in Organizations. It highlights the process of design and implementation of compensation systems. In addition, he studies different topics, such as: job evaluation, the design of surveys and salary structures, salary increase programs, benefits programs, compensation to the management group, pay for skills, laws that affect the compensation system, among others.

REHU 6715 Seminar on Contemporary Issues in Human Resources Management

Three credits. Three hours of lecture a week.

Study of contemporary issues of human resources management of major importance in the field. Discussion of topics such as: multicultural workforce, compensation for skills, corporate policies on the use of controlled substances in the workplace, and work design in new organizations such as the "virtual organization."



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DEGREE: Master of Business Administration/Juris Doctor (MBA/JD)

The Graduate School of Business Administration and the School of Law offer a joint study program leading to the Master of Business Administration (MBA) degree and the Juris Doctor (JD). Each school will award the degree separately. The complementary aspects of these two programs provide future professionals with a unique and highly marketable educational experience. The design of the study plan allows the completion of the requirements of each area (Law and MBA), and the corresponding electives, in a shorter time than that required to complete each program separately.

TEACHER PERSONAL

Maribel Aponte , PhD, University of Massachusetts, 1990, Professor. International Business and Development in Latin America and the Caribbean; Comparative Business Models; The Bolivarian Alliance for Our America; New Strategic Regionalism; Production and Trade Chains and Networks; Food Sovereignty; Visual research.

Jorge Ayala Cruz , PhD, Rensselaer Polytechnic Institute, 1993, Professor. System Dynamics; Strategic Operational Management; Supply Chain and Logistics Management; Quantitative Numerical Methods.

José Caraballo Cueto, PhD, The New School for Social Research, 2013, Associate Professor. X Goals, Economic Development, Human Development, Entrepreneurship.

Pedro González Cerrud , PhD, Lehigh University, 1992, Professor. Advanced Corporate Finance, Advanced Financial Accounting, Financial Statement Analysis, International Investments, Options, Futures and Other Derivatives, Quantitative Methods in Marketing.

Karen Orengo Serra , PhD, Sorbonne University, Paris, 2000, Professor. International Business: Theory, Strategic Management, Marketing and Entrepreneurship; emphasis on Internationalization of SMEs and Family Businesses.

Justin Paul, PhD, Indian Institute of Technology Bombay, 2003, Professor. International Marketing, Business in Asia and Emerging Markets, Strategic Management, Service Marketing.

Víctor Quiñones Cintrón , PhD, New York University, 1977, Professor. Customer Satisfaction and Post-Purchase Decisions; Integrated Communication in marketing and the exchange management process; Brand customization and its link to product positioning; strategic design during the life cycle of products.

Javier Rodríguez Ramírez, PhD, University of Houston, 2003, Associate Professor. Quantitative Methods in Finance; Behavioral Finance; Mutual Funds

Alex Ruiz-Torres, PhD, Pennsylvania State University, 1997, Professor. Operations and Supply Chain Management, Reverse Logistics, Production Planning.

Jimmy Torrez, PhD, University of California, 1998, Assistant Professor. Externalities of Free Trade; The Effect of Bureaucracy on Goods and Capital Markets; Market Inefficiencies; International Capital Markets.

ADMISSION REQUIREMENTS:

The admission and tuition requirements are those used by both programs. In general, the School of Law requires applicants to take the LSAT and EXADEP tests. Applicants must pass them with the minimum score established for the semester when applying and have the graduation rates required by each School.

GRADUATION REQUIREMENTS:

The student registered in this Program must pass a total of 116 credits determined by both Schools. You will be able to complete both degrees in 4 years.

PROGRAM OF STUDY:

First Year: School of Law					
Course	First Semester	Credits	Course	Second Semester	Credits
Dere 7018	w Constitutional	4	Dere 7115	Public International Law	3
Dere 7017	Right vil Procedure	4	Dere 7015	Criminal law	3
Dere 7068	Research d Editorial Legal	2	Dere 7008	Personal and Family Law	3
Dere 7066	The Legal Profession	2	Dere 7007	Real Rights	3
Dere 7016	Theory of ligations and Contracts	4	Dere 7006	Non-Contractual Liability	3
Total Credits		16	Total Credits		15
Second Year: Graduate School of Business Administration ("EGAE") and School of Law					
Note: The student will take the propaedeutic modules of the EGAE (ADMI 5500 and ADMI 5600, as applicable) before starting their first year at the EGAE.					
Course	First Semester	Credits	Course	Second Semester	Credits
Dere 7026	Law of the st & Test Evidence	3	Dere 7036	Partnerships & Corporations	3
Dere	Elective Seminar in Law	2	Dere	Law Elective	3
Admi 6531	Management & Leadership	3	Merc 6541	Marketing Management	3
Cont 6501	Accounting for Analysis & Control	3	Mecu 6551	Fundamentals of Statistics	3
Ecog 6567	Economy for Managers	3	Dere	Law Elective	3
Total Credits		14	Total Credits		15
Third Year: Graduate School of Business Administration and School of Law					
Course	First Semester	Credits	Course	Second Semester	Credits
Dere 7039	General Theory of the Law	3	Dere	Law Electives (6 credits total)	6

Dere	Seminar: Law Elective	2	Dere	Law Elective	
Admi 6510	Socket Decisions (Ecog 6567)	3	Geop 6539 C Management	erations (Mecu 6551)	3
	Elective EGAE	3	6501	Corporate Finance (Cont 6501, Mecu 6551)	3
Dere	Law Elective	3		EGAE Elective	3
Total Credits		14	Total Credits		15
Fourth Year: Graduate School of Business Administration and School of Law					
Course	First Semester	Credits	Summary of Crs.		
Dere 7041	inic Legal Assistance	3	Dere 7042	Legal Aid Clinic	3
	Law Elective (7 total credits)	7	Admi 6595	Global Strategic Management (all core)	3
	Law Elective		Dere	Law Elective	3
	Law Elective		Dere	Elective in Law (or EGAE)	3
Admi 6637	Ethics Business	3			
Dere	Elective in Law (or EGAE)	2			
Total Credits		15	Total Credits		12
			E. Law		80
			EGAE		36
			Total		116

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ADMI 6510 Decision Making

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 Study and analysis of various models for decision-making from the perspectives of information systems management and their role in decision-making and the development of processes and systems to support the decision-making function in organizations. Exploration of the concepts of information systems management and their use in decision-making processes. Face-to-face, hybrid and online course.

ADMI 6637 Business Ethics

Three credits. Three hours of lecture a week.

Prerequisite: Principal's permission.

Integrated study of the humanities and information from the behavioral sciences as they apply to economic activity to give the future manager the philosophical perspective he needs. Analysis of the development of a philosophy for free enterprise and the image of man according to humanistic studies and behavioral sciences. An examination of the equal needs and unequal capacities of men inherent in the labor-capitalist conflict, as well as an analysis of its dynamics and of those schools of thought that attempt to find common ground in common agreement. Exploration of the impact of different philosophies on ethics to produce a society that progressively approaches the equitable distribution of economic goods. Face-to-face, hybrid and online course.

ADMI 6531 Management and Leadership

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Fundamentals of the Management Process in Organizations. Integration of contemporary approaches to the study of organizational behavior, the human aspect in organizations and leadership in business administration and management. In this course, face-to-face and online interaction can be combined.

CONT 6501 Accounting for Analysis and Control

Three credits. Three hours of lecture a week.

Introduction to concepts, terminologies, processes, problems, and methodologies of managerial and financial accounting (including tax accounting). This course emphasizes the needs of information management to perform consistent analysis and select optimal decisions for the planning and control of operations in order to increase the value of the

company in an efficient and effective way, in dynamic business environments. The course can be offered in face-to-face, hybrid or online mode.

ECOG 6567 Managerial Economics

Three credits. Three hours of lecture a week.

Prerequisites: Director's Permission Exposition of the basic principles of economics related to the neoclassical theory of firm. It comprises the integration of fundamental theories of microeconomics with applications in finance and econometrics, among other topics, with emphasis on the application of these theories in managerial decision-making in the business context. In this course, face-to-face and online interaction can be combined.

6501 Business Finance

Three credits. Three hours of lecture a week.

Introduction to the theory and practice of finance from the perspective of companies operating in competitive markets. It discusses basic analytical tools needed to make financial decisions that create value. Some topics examined are capital asset investments, valuation, financing, dividend policy, governance, risk management, international finance, working capital management, and financial planning. The course can be offered in face-to-face, hybrid or online mode.

GEOP 6539 Operations and Supply Chain Management

Three credits. Three hours of discussion a week.

Prerequisites: MECU 6551 and ADMI 6552 Study of the planning, management and control of operations and supply chains in organizations. The course introduces several qualitative and quantitative techniques and methodologies of the discipline. It also explores tactical and strategic considerations necessary to sustain the competitiveness of the organization from a systematic perspective. The course discusses contemporary global and technological factors influencing operational and supply chain decision-making. The course can be offered in face-to-face, hybrid or online mode.

MECU 6551 Statistical Thinking and Data Analysis

Three credits. Three hours of lecture a week.

Study of the fundamentals of descriptive statistics, probability, probability distributions, and classical and Bayesian inference. The course introduces the use of "statistical thinking" in business problem modeling. The course can be offered in face-to-face, hybrid or online mode.

MERC 6541 Marketing Management

Three credits. Three hours of lecture a week.

Prerequisites: ADMI 6531 and MECU 6551 Study of the strategic process carried out by for-profit and non-profit organizations, in their management of satisfying the needs and desires of their external and internal customers. In this comprehensive introduction to the

field, students improve their ability to make effective marketing decisions, including evaluating opportunities and developing strategies that meet the expectations of all involved. The course can be offered in face-to-face, hybrid or online mode.

ADMI 6595 Strategic Management

Three credits. Three hours of lecture a week.

Prerequisites: ADMI 6531, ADMI 6637, CONT 6501, 6501 GEOP 6539, MECU 6552 AND MERC 6541.

Study of the approaches, practices and trends used in the formulation, establishment, evaluation and control of the actions necessary to develop and sustain the competitive advantage of the company. Emphasis on the integration of knowledge from the different functional areas of the company, interdisciplinary analysis, holistic and systemic reasoning, and teamwork. You will use the knowledge acquired in various courses of the master's degree to analyze complex situations. The course can be offered in face-to-face, hybrid or online mode.

OTHER COURSE DESCRIPTIONS:

ADMINISTRATION

ADMI 6631 Human Conduct in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6531 - 6532 Through the discussion of readings and real cases, the student is trained in the systematic analysis of the problems and situations that involve the human element in the company. The consistencies and inconsistencies between the pressures external to the company are observed, how they affect the feelings of its members, how they are reflected in the behavior patterns of these members. It examines, for example, the authoritarian management style versus the one that gives subordinates participation in decisions; the emotional problems posed by a dynamic or static environment and ways to motivate productivity.

ADMI 6632 Theory and Organizational Change

Three credits. Three hours of discussion a week.

Prerequisite: ADMI 6531 Study of theory and change in business enterprises from various perspectives. Emphasis on the development of analytical skills to better understand business complexity and produce alternatives for action that lead to change and improvement.

ADMI 6633 Personnel Administration and Industrial Relations

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6531 - 6532 The problem of human resources in enterprise and society, the functions and techniques of personnel administration, the nature of industrial relations, the function, the process of collective bargaining, management and union in the management of industrial relations, the policy of personnel administration, industrial relations and the public interest.

ADMI 6635 Business, Government & Society

Three credits. Three hours of lecture a week.

Prerequisite: Admission to Graduate School or Professor's Permit Definition of the company's relations with the government and with society at large. The role of government as an essential element of the business environment is noteworthy, for example, in the structuring and implementation of antitrust and minimum wage laws, tax reforms, and environmental sanitation provisions. The course discusses the manager's public accountability and effective participation in legislative, executive, and judicial processes.

ADMI 6650 Planning and Organization of New Businesses

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6532, MECU 6551 and CONT 6501 This course will study the opportunities for starting a business and will confront the student with a series of problematic situations through which they will develop an understanding of these existing opportunities. It will explore the need for information gathering to take advantage of future opportunities in improving a business. It will make the student aware of the risks, rewards, and difficulties that may be encountered in running a business and in the method to be used to solve these difficulties. Special attention will be given to the method of developing estimates of a potential market, the planning of a business's market entry, and the types of production or operational processes.

ADMI 6715 Research Methodology for Management and Administrative Sciences

Three credits. Three hours of discussion a week.

Study of managerial and administrative research. Emphasis on its applicability to solve problems and formulate theoretical management studies. Discussion of readings and cases related to the procedures used in the construction of managerial theories by thought leaders of the managerial and administrative sciences. In addition, it will discuss how paradigms emerge and how established ones have been transformed.

ADMI 6728 Seminar in the Field of Human Behavior

Three credits. Three hours of lecture a week.

This course can be repeated up to a maximum of three times (nine credits) Prerequisite: ADMI 6531 The course covers important topics in the area of human behavior and their implications for today's managers. Areas such as: consumer behavior, variation in employee behavior, implementation of MS/OR-models, design of the MAPS organization method, implication of accounting in behavior, and other topics of discussion are covered. The moles discussed are selected according to the interests and needs of the students. This course will be conducted in the form of a seminar. Both theoretical and operational aspects will be discussed, applied to each of the topics.

ADMI 6735 Labor Legislation and Jurisprudence

Three credits. Three hours of lecture a week.

Prerequisite: ADMI 6531- 6532 Study of federal and state legislation, as well as jurisprudence regarding hours, wages, strikes, boycotts, pickets, recognition of unions, and legality of collective agreements.

ADMI 6736 Leadership and Interpersonal Relations in Organizations

Three credits. Three hours of lecture a week.

Study and analysis of leadership theories with emphasis on the relationship between interpersonal dynamics and effective leadership. The development of interpersonal skills that will enable the student to exert effective influence will be highlighted. It will investigate the implementation of interventions for the production of information that harmonizes differences and, consequently, achieves the learning and commitment of the parties involved.

ADMI 6995 Cooperative Education Experience

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 one semester of graduate study and a minimum GPA of 3.00.

Experience in applying theoretical knowledge of the business field in a full-time, paid, academically supervised job. Face-to-face, hybrid and online course.

ADMI 8005 Doctoral Seminar

A credit. Five three-hour seminar sessions during the semester. Prerequisite: Be a student of the Doctoral Program Discussion of contemporary research and empirical issues relevant to the field of business administration. Study of the ethical, environmental and social dilemmas and implications of managerial decisions, business theory and activities, and education methodology. Development of electronic information search skills and writing

publishable articles. Topics will vary each time the seminar is offered. This course will be repeated a maximum of four times (four credits).

ADMI 8105 Doctoral Dissertation

Four credits. Four hours of doctoral dissertation per week.

Prerequisite: Have passed the comprehensive examination of the specialty.

The doctoral dissertation course is the space created for the student to demonstrate that they possess the ability to create and defend a proposal and conclude a doctoral thesis. This process is carried out with the assistance of the advisory committee, which has the main function of assisting the student in the elaboration of a product of the highest quality. The student will have to complete a minimum of twelve credits (three courses) of doctoral dissertation.

INTERNATIONAL TRADE

COIN 6700 Management Strategy in a Global Environment

Three credits. Three hours of discussion a week.

Prerequisite: ADMI 6531 Analysis of practical theories and international management systems within a social environment that includes considerations of cultural anthropology, environmental conditions, strengths and limitations of available resources, organizational structures, organizations, and values within a global environment.

COIN 6702 International Business Theory and Environment

Three credits. Three hours of discussion a week.

This introductory course focuses on the environments and challenges faced by companies operating in an international market of constant change and uncertainty. The course makes a critical examination of the theories and development of international business from the firm involved solely in the export and/or import process to the firm that expands using foreign direct investment. The unit of analysis of this course is the company.

COIN 6703 International Business and Market Research

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6552 or equivalent This course explains the process of international business and market research in a practical, ethical, and legal manner. The course has a practical and theoretical approach with extensive discussions of the problems when researching in various markets. The following elements are presented: research design and methods, instrument development, sampling, data collection, analysis, and presentation of results.

COIN 6705 Seminar on International Economics

Three credits. Three hours of discussion per week Prerequisites: 6501 and ECOG 6567

This course provides the student with the basic framework on the effect of the economic environment on international business. The international economic environment in which the corporate company operates will be analyzed and discussed.

COIN 6706 International Business in Latin America and the Caribbean

Three credits. Three hours of discussion a week.

Prerequisite: COIN 6702 or director's permission.

This course explores conceptual approaches to study international business in Latin America and the Caribbean, the syllabus is divided into four components: Typology of international business in the region; international business and regional research agreements; international business, natural resources and environmental conflicts; and sustainable investment and trade. This course will be offered in face-to-face, hybrid and distance learning modalities.

COIN 6707 International Logistics and Operations Management

Three credits. Three hours of discussion a week.

Prerequisites: GEOP 6539, MERC 6541 Study of issues related to the use of global operations to improve supply chain performance and international competitiveness.

Discussion of topics related to the creation of global operations and distribution projects to level customer-supplier and subsidiary relationships. Analysis on the streamlining of the value chain, improving the coordination and execution of distribution channels.

COIN 6708 Legal Aspects of Global Trade

Three credits. Three hours of discussion a week.

Study of the most important legal aspects when establishing global business operations. Introduction to Public International Law and those concepts that directly or indirectly affect trade and commercial disputes. Detailed discussion of the institutions, issues, and controversies currently arising in trade between nations. Topics such as: sovereignty of nations, international treaties (e.g., GATT, NAFTA), the United Nations and its structure, the European Union, international trade dispute settlement mechanisms, global intellectual property issues, and international tax aspects are discussed.

COIN 8005 Seminar on International Trade

Three credits. Three hours of seminar per week.

Prerequisites: ECOG 6701, ECOG 6703, MECU 8005.

Discussion of the concepts and theories of international trade, the advantages and disadvantages of economic and political agreements between countries, as well as the

alternatives of international management policies used by firms, especially those used by Latin American firms. Study of the institutions and processes that affect the international conduct of business, the interrelationship between nations and international firms.

COIN 8006 Legal Aspects and Regulations of International Trade

Three credits. Three hours of discussion a week.

Study and analysis of current and emerging national laws and regulations for decision-making related to international trade, as well as institutions that regulate international transactions. It includes the nature and legal, governmental and political aspects that affect the business transactions of multinational companies in Latin America and the Caribbean.

COIN 8015 International Organizational Design, Structure and Culture

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study of the most recent theories on organizational design, structure, and culture and their effect on the performance, efficiency, effectiveness, and adaptability of the international enterprise. Emphasis on cultural manifestations in the company's performance and ways of managing them.

COIN 8016 Comparative Business Systems

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study and analysis of procedural, structural, and power differences, among others, within the organization in different countries. Emphasis on the comparison of business processes and practices in the United States, Europe, Japan, Latin America and the Caribbean, using as a reference the emerging literature on organizational culture, organizational sciences and classical contingency theory.

COIN 8025 International Economy and Finance

Three credits. Three hours of discussion a week.

Prerequisite: ECOG 6701 or its equivalent, 6703 or its equivalent Study of the international monetary system and its role in determining the exchange rate of international currencies. Analysis of the factors influencing international investments, the characteristics of international financial institutions and their relationship with domestic markets.

COIN 8026 International Strategic Management

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study of different schemes to evaluate the competitive position in an environment of uncertainty and of descriptive models of the future performance of the company competing in international industries. Discussion of comparisons between multi-domestic and transnational strategies and global alliances, including Latin American companies.

COIN 8027 Contemporary Issues in International Trade and Business

Three credits. Three hours of lecture a week.

Prerequisites: COIN 8005 Study of research theories and methodologies of contemporary issues in the fields of international trade and business. The course can be repeated up to a maximum of four times, as long as the topic is not repeated.

COIN 8028 International Marketing Strategies

Three credits. Three hours of discussion a week. Prerequisite: COIN 8005

Critical Analysis and Development of Marketing Strategies and Tactics

used by multinational corporations in international markets. Face-to-face, hybrid and online course.

ACCOUNTING**CONT 6701 Theory and Problems of Financial Accounting I**

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 Critical study of the concepts and standards underlying periodic financial statements. Classification and quantification problems in the preparation of corporate reports in general and in the preparation of special reports for management to reach decisions. The following topics are included: review of basic concepts and rules, determination, distribution and expiration of costs, revaluation of assets, etc.

CONT 6702 Theory and Problems of Financial Accounting II

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 Emphasis is placed on financial accounting for corporations, but equity in non-corporate institutions is also included. Topics to be discussed include: sources of capital, bonds, income, pension fund debts, convertible bonds and equity of surpluses, cash movements, intracorporate investments and other investments, consolidation through mergers, specific problems of companies.

CONT 6705 Cost Analysis and Control

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 This course introduces the fundamental methods and procedures for the determination and control of costs of materials, labor, and indirect costs of manufacturing. Emphasis is given to the usefulness of cost accounting for managerial decisions and for the preparation of historical statistics and microeconomic projections of the firm, the control of costs through accountability accounting, standard costs, the establishment of budgets, norms and analysis of variations, effective communication that points out the success or failure achieved by the various plans of action.

CONT 6707 Contributory Matters for Managers

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 or Teacher's Permission Introduction to Contributory Matters of Relevance to Managers. The different tax laws of the Commonwealth of Puerto Rico and their effects on decision-making are discussed. In addition, legal provisions relating to property taxation, excise duties and tariffs, as well as other sources of state and municipal government revenue are considered. The course also addresses relevant aspects of federal and state income taxation and analyzes its impact on managerial decision-making.

CONT 6709 Theory and Philosophy of Auditing

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501 The social function of the auditor is emphasized and the student is familiarized with the standards, objectives, and procedures of the audit. It includes ethics, legal responsibility, the area to be covered, the objectives and nature of an audit, the administration of an audit, modern audit procedures and techniques. Modern techniques include statistical sampling and the use of electronic systems in auditing. In addition, the role of an auditor as a consultant to the manager on tax matters and other aspects of the business is discussed. The readings are supplemented by problems and cases.

CONT 6719 Accounting Seminar

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701-6702 This course will be used to study various contemporary topics of relevance to the field of accounting, both in their theoretical and practical aspects.

CONT 6725 Budget Concepts and Practices: Planning and Control

Three credits. Three lecture hours per week Prerequisite: CONT 6501 An integrated approach to planning and control processes including aspects of budget goals and objectives, technical procedures, and how the budget affects the organization. It also discusses how to measure and control divisional performance.

CONT 6735 International Accounting

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6701 and CONT 6702 Study of accounting aspects typical of multinational companies, such as foreign currency transactions, transfer pricing and international taxes.

MANAGERIAL ECONOMICS

ECOG 6701 Managerial Micro-economics: Price Theory

Three credits. Three hours of lecture a week.

In this course we will study different approaches to microeconomics and its components: markets (supply and demand); production theory; markets and costs according to the various market structures (perfect competition, monopoly, and imperfect competition). This analysis will integrate a history perspective of economic thought and establish relationships with the study of business and international trade. The course will be offered in a research-based learning format. This course will be offered in face-to-face, hybrid and distance learning modalities.

ECOG 6703 Managerial Macroeconomics: Theory of Money and Income

Three credits. Three hours of lecture per week Prerequisite: ECOG 6611 A course in aggregate economic theories. It includes the analysis of the determination of national income, production, employment and price level. It examines the effect on the level of employment and the price level of factors such as consumption, investment, the quantity of money in circulation, the interest rate, monetary policy, fiscal policy, and public debt management policy. In addition, the theoretical analysis is related to current economic problems and how they affect the company.

ECOG 6735 Caribbean Economic Development

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 or Director's Permit Analyzes the characteristics and patterns of economic development in the Greater Caribbean. It discusses the contributions of Caribbean authors and the history of economic development theory thought. It analyzes the industrialization strategies that have been implemented in the area, as well as alternative models of economic development and industrial policies. The particularity of the topics addressed in the course is that they are focused on companies as opposed to the approach of economics or sociology. Each semester, contemporary issues and debates are incorporated. This course will be offered in face-to-face, hybrid or distance learning.

ECOG 8005 Managerial Macroeconomics

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 or equivalent, Calculus I This course at the doctoral level includes the analysis of national income, employment and the price level. It analyzes fiscal and monetary policies and how they affect the three aggregate measures of the economy, mentioned above. It explores the different theories and their implications for the relationships between government policies and national welfare.

FINANCE

6621 Banking and Other Financial Institutions

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6611 or Teacher's Permit Commercial banking and non-bank financial institutions are examined. In addition, the principles and problems of currency, central banking, and international finance are examined. Emphasis is placed on the implementation and evaluation of monetary policy.

6703 Advanced Business Finance

Three credits. Three hours of lecture a week.

Prerequisite: CONT 6501, 6501 and MECU 6551 Theory and practice of corporate finance, asset management, capital budgeting and optimization problems and socio-economic aspects of financial management. The use of quantitative tools is emphasized and real cases are analyzed.

6707 Investments

Three credits. Three hours of lecture a week.

Prerequisite: 6501, MECU 6551 Investment principles and practices, with special emphasis on investment analysis, elements involved in the investment process and establishment of criteria for choosing various investment alternatives. For this purpose, simulation and mathematical programming techniques are used.

6709 Real Estate Financing

Three credits. Three hours of lecture a week.

Prerequisite: 6621 and MECU 6551 It analyzes the mortgage market, the development and impact of private and government institutions that finance real estate, the problems in real estate investment and financing, the relationship that investment has in the capital market, and the role that credit plays in real estate markets.

6710 Options, Futures and Other Derivatives

Three credits. Three hours of discussion a week.

Prerequisite: CONT 6501, 6501 Intensive and extensive discussion of the theory and application of futures derivatives, perspectives, and investment instruments that are part of investment portfolio management and corporate financial risk control. Applications in the fields of investments and buying and selling operations. Detailed examination of the global market for synthetics and derivatives, particularly the role played by European investors. Discussion of legal, technological and accounting matters to the extent that they are part of the activities carried out in the derivatives market.

6711 Theory and Structure of Financial Markets

Three credits. Three hours of lecture a week.

Prerequisite: 6501 The structure of financial markets and the application of the latest monetary and economic theories of financial markets are discussed. It includes, among others, the following topics: the role of financial theory and policy, the implications of the structure of financial markets for the efficiency of market functioning, the interrelationships between real and financial variables in economic activity, and other related topics.

6713 Administration of Banks and Other Financial Institutions

Three credits. Three hours of lecture a week.

Prerequisite: 6621 or Director's permission.

Within the economic and legal framework, the basic and relevant principles for determining the management policy of the different financial institutions are analyzed. It includes the following topics: asset management, debt and capital, sources and uses of funds, competition among financial institutions and structural problems of the industry (branches, chains, mergers, etc.).

6717 International Trade and Finance

Three credits. Three hours of lecture a week.

Prerequisite: 6621 Analysis of Trade Theory and Policy and International Monetary Theory and Policy. Among other topics, the following are discussed: capital movements, balance of payments, currency exchange markets, adjustments in economic activity under the flexible currency exchange rate.

6719 Public Finance

Three credits. Three hours of lecture a week.

Prerequisite: 6501 The structure of sources and uses of government funds is critically studied. Emphasis is placed on tax problems in terms of their impact on the distribution of society's income and on the business cycle. It examines the secular growth of government expenditures and its significance as an index of the relative growth of the governmental sphere. It also analyzes the role of public expenditures and debt on income distribution and the business cycle.

6721 Research Seminar for the Field of Finance

Three credits. Three hours of lecture a week.

Prerequisite: Concentration in Finance in Graduate School It familiarizes the student with the logic and methods that are used in the field of contemporary business finance. In addition, individual or group research is carried out in the field of macrofinance including problems of structure and organization of financial markets, the way they determine prices and interest rates. The main aspects of national and international fund flows, public finance, economic development financing, as well as any area within aggregate finance. A faculty

member supervises and assists the student in the methodology of the research. Meetings and their content are determined according to the student's interest. The course may be repeated up to a maximum of 3 times for a total of 9 credits.

6725 International Investments

Three credits. Three hours of discussion a week.

Prerequisite: 6501, CONT 6501 or BBA with concentration in Finance or Accounting Study of the various macroeconomic, political, and social aspects that have combined for the individual and institutional investor to consider the alternative of investing in international markets. It examines the mechanisms used to minimize the risks caused by exchange rate volatility and the tactics used to take advantage of fluctuations in these markets.

8005 Financial Theory I

Three credits. Three hours of discussion a week.

Prerequisites: ECOG 6701, 6703 and MECU 8005 Discussion of the most recent trends in research in the financial discipline. Emphasis on the impact of theory on conceptual frameworks for research on the financial phenomenon in Latin America and the Caribbean. Critical analysis of recent legal, social and ethical issues in the financial and economic environment.

8006 Financial Theory II

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Discussion of the application of financial theory in the broad context of what a corporation is. Review of corporations in the manufacturing and service sectors. Study of the review of empirical evidence from the perspective of economic positivism. Emphasis on the application of financial theory in Latin America, the Caribbean and the United States.

8017 Quantitative Methods for Finance

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Study of the advanced methodological tools required to conduct research in finance and investment analysis. Emphasis on modern portfolio theory. Use of optimization and statistical analysis software to examine and evaluate corporations and investment markets in Latin America and the Caribbean.

8019 Independent Studies in Finance

Three credits. Three hours of independent study per week.

Prerequisite: 8006 Independent research in a specialized subject of interest in finance, which is offered in part or not included in other courses of the Doctoral Program. It is carried out in consultation with a professor who is an expert in the subject. This course can be repeated up to a maximum of two times (6 credits).

8025 Investment Markets

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Analysis of the various strands of the most recent research in this area and the interrelation with the impact of investment methods on local, Latin American and Caribbean markets. In addition, theoretical approaches that analyze the issue of decisions in investment markets in situations of uncertainty within the framework of other disciplines, such as accounting, micro and macroeconomics, are discussed.

8027 Corporate Finance

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Study of research findings on the most recent developments in the area of corporate finance. Discussion of the financial problems of the modern corporation and possible investigations for the solution of them. Critical analysis of the results of research projects dealing with the finances of modern Latin American corporations.

8029 Contemporary Issues in Financial Markets

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Integrative study on the structure and dynamics of international financial markets and their relationship with domestic markets. Emphasis on the most recent studies on the international optimization of the portfolio of financial assets.

OPERATIONS MANAGEMENT**GEOP 6703 Project and Process Management**

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6551 The course considers methods and techniques necessary to analyze, design, implement, and control processes and projects in organizations. In the topics related to process management, students learn to identify, model, evaluate and improve the efficiency of the organization's processes and their components. Project management examines the theory and best practices adopted by successful organizations, in particular the methods and techniques in their planning, execution, and control of activities. Students participate in structured workshops to examine processes

y projects.

GEOP 6706 Contemporary Issues in Operations Management

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6539, MECU 6551 Study of Contemporary and Transcendental Issues in Operations Management. Discussion of studies, techniques, methodology and diverse visions and their implications in different business sectors. Each time the course is offered, different topics will be offered. The student may enroll in the course a maximum of three times.

GEOP 6707 Advanced Production Management

Three credits. Three hours of lecture a week.

Prerequisite: GEOP 6639 Readings and cases covering the following areas are examined: functional location of equipment and machinery, acquisition of facilities, selection of equipment, physical format of the plant, establishment of quality and production standards, purchase of materials, warehouse operation, inventory control, and worker incentive systems.

GEOP 6708 Operations Management for Service Companies

Three credits. Three hours of discussion a week.

Prerequisite: GEOP 6639 Discussion of concepts and topics that aid the understanding of particular aspects in the operations of companies that provide services. Study of the latest trends and characteristics of various industries in the service sector, as well as methodologies designed to improve the productivity of private and public service organizations.

GEOP 6723 Statistical Quality Control

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 The use of statistical techniques (control charts) to detect special causes and to locate responsibility for reducing variability in quality. Statistical techniques for determining the standards and specifications of a product. Considerations of the associated costs in quality control. Design of procedures for acceptance, rejection or repair of product batches, and the influence of these decisions on inventory policy. Methods of statistical control in supervision and their application to the administration and personnel policy of a company. Elementary theory of accounting for complex components and equipment. Maintenance and replacement of equipment.

GEOP 6726 Quality Management

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

Prerequisite: MECU 6551 Study of managerial activities related to the administration of the quality function in service and manufacturing companies.

GEOP 6735 Supply Chain Management

Three credits. Three hours of lecture a week.

Prerequisites: GEOP 6639 Study of the management of the flow of materials and information through the different stages of the organization. The most important individual activities of a supply chain and the interactions between them are considered to form an efficient organizational collective. This course will provide the student with the knowledge and tools necessary to develop, implement, and sustain strategies for the management of supply chain issues.

QUANTITATIVE METHODS**MECU 6703 Statistical Inference**

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6701 or permission of the Director Theory of Estimation Assumption and Confidence Intervals. Subjective probability, a priori and a posteriori distributions, the likelihood principle, and Bayes' theorem, Bayesian inference. Non-parametric tests and freely distributed methods.

MECU 6709 Decision Theory

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 or its equivalent Methods of analysis under uncertain conditions, including the use of subjective probability and utility theory. Applied probabilistic models. Contemporary methods are compared with classical ones.

MECU 6715 Econometrics I

Three credits.

Prerequisite: MECU 6551, MECU 6651, ECOG 6567 Formulation, estimation and testing of various economic models on demand and production. Emphasis is placed on the use of econometric techniques to solve problems for firms and industrial sectors.

MECU 6717 Econometrics II

Three credits.

Prerequisite: MECU 6715 Considers autocorrelation problems, delayed variable models, errors in variables, and other problems. It considers techniques for short- and long-term forecasting of commercial activity for both the economy and firms and industrial sectors.

MECU 6725 Quantitative Methods for Management Decisions

Three credits. Three hours of lecture a week.

Prerequisite: MECU 6551 This course provides an introduction to quantitative models used in the managerial and administrative sciences. Deterministic and stochastic models are discussed, as well as descriptive and normative models. The main focus of this course is on the formulation and use of descriptive and normative models. The main focus of this course is on the formulation, use of mathematical and programmed models, and on the analysis and interpretation of the results. The course provides a comprehensive foundation of analytical tools for other courses.

MECU 6739 Multiple Variable Analysis

Three credits. Three hours of discussion a week.

Prerequisite: MECU 6551 This course provides an introduction to the use of the most commonly used techniques in multivariable analysis. The theory of each technique will be discussed, the most common particular problems in its application, the correct way to interpret and present the results. The course will be complemented by the use of a statistical program. During the course, examples of the different specialties of the managerial and administrative sciences will be discussed.

MECU 8005 Integrated Probabilistic and Statistical Analysis

Three credits. Three hours of discussion a week.

Prerequisite: 1. At least one statistics course at the master's level. 2. Mathematics courses that include concepts of differential and integral calculus. 3. Matrix algebra course or its equivalent. 4. Knowledge of a statistical program (e.g., SaaS, SPSS, NCSS, or MiniTAB).

Comprehensive study of the principles of probabilistic and statistical analysis. It includes the fundamentals of stochastic and deterministic models necessary to understand the modeling used in the business field.

MARKETING**MERC 6701 Advanced Marketing Management**

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541 A detailed analysis of the responsibilities of the distribution manager who plans, directs, and coordinates the activities of personnel in charge of specialized tasks, such as: advertising, sales, and market research. Special attention is given to the formulation of the general marketing policy and the planning of techniques for implementing that policy.

MERC 6705 Market Research

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541, MECU 6551 Emphasis is placed on marketing research methods to be used as criteria in problem solving and to increase marketing efficiency. All modern techniques are discussed, including the newest theoretical developments. The case and group project method is used.

MERC 6708 Consumer Motivation and Behavior

Three credits.

Course designed for sophomores concentrating on marketing. It studies the economics and psychology of consumer behavior and its applications in the marketing management profession.

MERC 6714 Product Strategy and Management

Three credits. Eight hours of lecture per week.

Prerequisite: MERC 6541 Topics Related to Marketing and Production Problems in a Multi-Product Firm. Strategy concepts and management philosophy in the optimal mix of products to be marketed. Factors that dominate the methods for developing the product marketing strategy; Planning, organization and control of the process to develop new products. The commercialization of new products. Cases will be studied.

MERC 6715 International Marketing

Prerequisite: MERC 6541 Three credits. Three hours of lecture a week.

The theory and practice of the international and interregional market. The condition of the international market, comparative market and international market groupings integrated with the theory of exchange. Special attention will be given to the problems of Latin America.

MERC 6717 Marketing Services

Three credits. Three hours of lecture a week.

Prerequisite: MERC 6541 The impact that marketing has had, among other things, the decrease in government intervention, the constant change in technology, the new perspectives on communication that professional associations have, and the evolution of the services market.

MERC 6719 Graduate Seminar in Marketing

Three credits. Three hours of seminar per week.

Prerequisite: MERC 6541, 6701 Discussion of strategic issues of the marketing process that lead to new paradigms that result in more effective and efficient orientations in the managerial executions of the business management. Variable content depending on the relevance of the topics at the time of offering the seminar. The student may repeat the course up to a maximum of nine credits, if the topics to be covered are different.

HUMAN RESOURCES**REHU 6705 Human Resources Management**

Three credits. Three hours of lecture a week.

Comprehensive introduction to the core contents of human resource management in various types of organizations. The course will examine the important principles of the discipline, enabling the student to recognize critical scenarios and attend to the various situations that arise in the company. Special emphasis will be given to the management of human resource planning, job analysis and design, the work system, recruitment, selection, performance, training, remuneration, compensation, fringe benefits, and labor-management relations. The course can be taken in hybrid mode.

REHU 6706 Administration of Compensation and Reward Systems

Three credits.

Prerequisites: REHU 6705 Discussion of Theories of Compensation and Rewards in Organizations. It highlights the process of design and implementation of compensation systems. In addition, he studies different topics, such as: job evaluation, the design of surveys and salary structures, salary increase programs, benefits programs, compensation to the management group, pay for skills, laws that affect the compensation system, among others.

REHU 6715 Seminar on Contemporary Issues in Human Resources Management

Three credits. Three hours of lecture a week.

Study of contemporary issues of human resources management of major importance in the field. Discussion of topics such as: multicultural workforce, compensation for skills, corporate policies on the use of controlled substances in the workplace, and work design in new organizations such as the "virtual organization."



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DEGREE: Doctor of Philosophy in Business Administration with a specialty in International Trade

TEACHERS:

Maribel Aponte , PhD, University of Massachusetts, 1990, Professor. International Business and Development in Latin America and the Caribbean; Comparative Business Models; The Bolivarian Alliance for Our America; New Strategic Regionalism; Production and Trade Chains and Networks; Food Sovereignty; Visual research.

Jorge Ayala Cruz , PhD, Rensselaer Polytechnic Institute, 1993, Professor. System Dynamics; Strategic Operational Management; Supply Chain and Logistics Management; Quantitative Numerical Methods.

José Caraballo Cueto, PhD, The New School for Social Research, 2013, Associate Professor. X Goals, Economic Development, Human Development, Entrepreneurship.

Pedro González Cerrud , PhD, Lehigh University, 1992, Professor. Advanced Corporate Finance, Advanced Financial Accounting, Financial Statement Analysis, International Investments, Options, Futures and Other Derivatives, Quantitative Methods in Marketing.

Karen Orengo Serra , PhD, Sorbonne University, Paris, 2000, Professor. International Business: Theory, Strategic Management, Marketing and Entrepreneurship; emphasis on Internationalization of SMEs and Family Businesses.

Justin Paul, PhD, Indian Institute of Technology Bombay, 2003, Professor. International Marketing, Business in Asia and Emerging Markets, Strategic Management, Service Marketing.

Víctor Quiñones Cintrón , PhD, New York University, 1977, Professor. Customer Satisfaction and Post-Purchase Decisions; Integrated Communication in marketing and the exchange management process; Brand customization and its link to product positioning; strategic design during the life cycle of products.

Javier Rodríguez Ramírez, PhD, University of Houston, 2003, Associate Professor. Quantitative Methods in Finance; Behavioral Finance; Mutual Funds

Alex Ruiz-Torres, PhD, Pennsylvania State University, 1997, Professor. Operations and Supply Chain Management, Reverse Logistics, Production Planning.

Jimmy Torrez, PhD, University of California, 1998, Assistant Professor. Externalities of Free Trade; The Effect of Bureaucracy on Goods and Capital Markets; Market Inefficiencies; International Capital Markets.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Program-Specific Requirements:

Students who hold a bachelor's degree or higher from a recognized university may apply for admission to the Doctoral Program in Business Administration. The following elements will be considered for admission to the Program:

1. Minimum academic index of at least 3.00 in high school and 3.33 in graduate studies, if applicable.
2. Verbal and written proficiency in Spanish and English.
3. Have passed at least one course in each of the following (for a total of nine credits) with a grade of no less than B: Calculus I (Differential), Calculus II (Integral) and Matrix Algebra.
4. Interview with members of the Admissions Committee.
5. Verifiable list of research conducted and published and a list of academic and professional achievements, if applicable.

Required Documents for the Application for Admission:

1. Two credit transcripts from each institution where you studied.
2. EXADEP or GMAT score.
3. Two recommendations from professors with whom you have taken courses.
4. Written essay explaining the reasons why the applicant selected this Program.

GRADUATION REQUIREMENTS:

In addition to the graduation requirements applicable to the doctoral programs of the Río Piedras Campus, the student must:

1. Pass at least a total of 64 credits with an index of no less than 3.00 points.
2. Pass a comprehensive exam on the fundamental principles in the area of their specialization and other topics relevant to their studies.
3. Pass four credits in doctoral seminars.
4. Pass a dissertation.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	12
ECOG 6701 - Managerial Microeconomics: Price Theory	3
ECOG 8005 - Managerial Macroeconomics	3
ADMI 6715- Research Methodology for Management and Administrative Sciences	3
MECU 8005 – Integrated Probabilistic and Statistical Analysis	3
Courses in Research Methodology	9
Courses Specialty Requirements	6
Elective Courses in the Specialty	12
Free Electives	9
Doctoral Seminars	4
ADMI 8105 Doctoral Dissertation	12 (minimum)
Total Credits	64

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ECOG 6701 Managerial Micro-economics: Price Theory

Three credits. Three hours of lecture a week.

In this course we will study different approaches to microeconomics and its components: markets (supply and demand); production theory; markets and costs according to the various market structures (perfect competition, monopoly, and imperfect competition). This analysis will integrate a history perspective of economic thought and establish relationships with the study of business and international trade. The course will be offered in a research-based learning format. This

course will be offered in face-to-face, hybrid and online modalities.

ECOG 8005 Managerial Macroeconomics

Three credits. Three hours of lecture a week.

Prerequisite: ECOG 6567 or equivalent, Calculus I This course at the doctoral level includes the analysis of national income, employment and the price level. It analyzes fiscal and monetary policies and how they affect the three aggregate measures of the economy, mentioned above. Different theories are explored and its implications for the relationship between government policies and national welfare.

ADMI 6715 Research Methodology for Management and Administrative Sciences

Three credits. Three hours of discussion a week.

Study of managerial and administrative research. Emphasis on its applicability to solve problems and formulate theoretical management studies. Discussion of readings and cases related to the procedures used in the construction of managerial theories by thought leaders of the managerial and administrative sciences. In addition, it will discuss how paradigms emerge and how established ones have been transformed.

MECU 8005 Integrated Probabilistic and Statistical Analysis

Three credits. Three hours of discussion a week.

Prerequisite: 1. At least one statistics course at the master's level. 2. Mathematics courses that include concepts of differential and integral calculus. 3. Matrix algebra course or its equivalent. 4. Knowledge of a statistical program (e.g., SaaS, SPSS, NCSS, or MiniTAB).

Comprehensive study of the principles of probabilistic and statistical analysis. It includes the fundamentals of stochastic and deterministic models necessary to understand the modeling used in the business field.

ADMI 8105 Doctoral Dissertation

Four credits. Four hours of doctoral dissertation per week.

Prerequisite: Have passed the comprehensive examination of the specialty.

The doctoral dissertation course is the space created for the student to demonstrate that they possess the ability to create and defend a proposal and conclude a doctoral thesis. This process is carried out with the assistance of the advisory committee, which has the main function of assisting the student in the elaboration of a product of the highest quality. The student will have to complete a minimum of twelve credits (three courses) of doctoral dissertation.

OTHER COURSE DESCRIPTIONS:

ADMINISTRATION

ADMI 8005 Doctoral Seminar

A credit. Five three-hour seminar sessions during the semester. Prerequisite: Be a student of the Doctoral Program Discussion of contemporary research and empirical issues relevant to the field of business administration. Study of the ethical, environmental and social dilemmas and implications of managerial decisions, business theory and activities, and education methodology. Development of electronic information search skills and writing publishable articles. Topics will vary each time the seminar is offered. This course will be repeated a maximum of four times (four credits).

INTERNATIONAL TRADE

COIN 8005 Seminar on International Trade

Three credits. Three hours of seminar per week.

Prerequisites: ECOG 6701, ECOG 6703, MECU 8005.

Discussion of the concepts and theories of international trade, the advantages and disadvantages of economic and political agreements between countries, as well as the alternatives of international management policies used by firms, especially those used by Latin American firms. Study of the institutions and processes that affect the international conduct of business, the interrelationship between nations and international firms.

COIN 8006 Legal Aspects and Regulations of International Trade

Three credits. Three hours of discussion a week.

Study and analysis of current and emerging national laws and regulations for decision-making related to international trade, as well as institutions that regulate international transactions. It includes the nature and legal, governmental and political aspects that affect the business transactions of multinational companies in Latin America and the Caribbean.

COIN 8007. International Trade in Latin America

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005.

Discussion of transactions, related to trade in process and their relations with the countries of the European Union.

7.

COIN 8008. International Operations Management

Three credits. Three hours of lecture a week.

Prerequisites: COIN 8005 Analysis and study of the supply chains, logistics systems and production systems necessary to provide, sustain and manage the flow of materials and information in organizations operating on an international scale. The course provides the student with a space for detailed and critical analysis of the design of such systems and for the student to examine the latest research on these topics.

COIN 8015 International Organizational Design, Structure and Culture

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study of the most recent theories on organizational design, structure, and culture and their effect on the performance, efficiency, effectiveness, and adaptability of the international enterprise. Emphasis on cultural manifestations in the company's performance and ways of managing them.

COIN 8016 Comparative Business Systems

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study and analysis of procedural, structural, and power differences, among others, within the organization in different countries. Emphasis on the comparison of business processes and practices in the United States, Europe, Japan, Latin America and the Caribbean, using as a reference the emerging literature on organizational culture, organizational sciences and classical contingency theory.

COIN 8018 Independent Studies in International Trade

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 and 8016 Independent research specialized in one of the areas of International Business selected by the student in consultation with a professor who is an expert in the subject.

COIN 8025 International Economy and Finance

Three credits. Three hours of discussion a week.

Prerequisite: ECOG 6701 or its equivalent, 6703 or its equivalent Study of the international monetary system and its role in determining the exchange rate of international currencies. Analysis of the factors influencing international investments, the characteristics of international financial institutions and their relationship with domestic markets.

COIN 8026 International Strategic Management

Three credits. Three hours of discussion a week.

Prerequisite: COIN 8005 Study of different schemes to evaluate the competitive position in an environment of uncertainty and of descriptive models of the future performance of the company competing in international industries. Discussion of comparisons between multi-domestic and transnational strategies and global alliances, including Latin American companies.

COIN 8027 Contemporary Issues in International Trade and Business

Three credits. Three hours of lecture a week.

Prerequisites: COIN 8005 Study of research theories and methodologies of contemporary issues in the fields of international trade and business. The course can be repeated up to a maximum of four times, as long as the topic is not repeated.

COIN 8028 International Marketing Strategies

Three credits. Three hours of discussion a week. Prerequisite: COIN 8005

Critical Analysis and Development of Marketing Strategies and Tactics

used by multinational corporations in international markets. Face-to-face, hybrid and online course.

FINANCE**8005 Financial Theory I**

Three credits. Three hours of discussion a week.

Prerequisites: ECOG 6701, 6703 and MECU 8005 Discussion of the most recent trends in research in the financial discipline. Emphasis on the impact of theory on conceptual frameworks for research on the financial phenomenon in Latin America and the Caribbean. Critical analysis of recent legal, social and ethical issues in the financial and economic environment.

8006 Financial Theory II

Three credits. Three hours of discussion a week.

Prerequisite. 8005 Discussion of the application of financial theory in the broad context of what a corporation is. Review of corporations in the manufacturing and service sectors. Study of the review of empirical evidence from the perspective of economic positivism. Emphasis on the application of financial theory in Latin America, the Caribbean and the United States.

8015 International Economics and Finance

Three credits. Three hours of discussion a week.

Prerequisite: ECOG 8005.

Study of the international monetary system and its role in determining the exchange rate of international currencies. Analysis of the factors influencing international investments, the characteristics of international financial institutions and their relationship with domestic markets.

8017 Quantitative Methods for Finance

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Study of the advanced methodological tools required to conduct research in finance and investment analysis. Emphasis on modern portfolio theory. Use of optimization and statistical analysis software to examine and evaluate corporations and investment markets in Latin America and the Caribbean.

8019 Independent Studies in Finance

Three credits. Three hours of independent study per week.

Prerequisite: 8006 Independent research in a specialized subject of interest in finance, which is offered in part or not included in other courses of the Doctoral Program. It is carried out in consultation with a professor who is an expert in the subject. This course can be repeated up to a maximum of two times (6 credits).

8025 Investment Markets

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Analysis of the various strands of the most recent research in this area and the interrelation with the impact of investment methods on local, Latin American and Caribbean markets. In addition, theoretical approaches that analyze the issue of decisions in investment markets in situations of uncertainty within the framework of other disciplines, such as accounting, micro and macroeconomics, are discussed.

8027 Corporate Finance

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Study of research findings on the most recent developments in the area of corporate finance. Discussion of the financial problems of the modern corporation and possible investigations for the solution of them. Critical analysis of the results of research projects dealing with the finances of modern Latin American corporations.

8029 Contemporary Issues in Financial Markets

Three credits. Three hours of discussion a week.

Prerequisite: 8005 Integrative study on the structure and dynamics of international financial markets and their relationship with domestic markets. Emphasis on the most recent studies on the international optimization of the portfolio of financial assets.

Graduate School of Planning





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DEGREE: Master's Degree in Planning

ACCREDITATIONS:

Planning Accreditation Board of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning

TEACHERS:

Maritza Barreto Orta, PhD, University of Puerto Rico, Mayagüez Campus, 1996. Remote Sensing, Natural Disaster Management, Coastal Zone Management, Geology, Physical Geography, Remote Sensing Imagery.

Aurelio Castro Jimenez, MA, Sacred Heart University, 2006. Instructor. Computer Systems and GIS. Analysis Methods for Planning

Angeliz Encarnación Burgos, PhD, University of Texas, Austin, 2020. Assistant Professor. Community and Regional Planning, specializing in urban development and health.

Rafael L. Irizarry Odlum, Ed.D, Harvard University, 1981, Professor. Higher education, school dropout. Educational Planning, Planning Theory, Social and Educational Policy.

Criseida Navarro Díaz, PhD, Massachusetts Institute of Technology 2005, Associate Professor. Regional development and urban planning.

Norma I. Peña Rivera, PhD, University of Illinois, Chicago, 2005. Associate Professor. Transportation Systems and Livable City, Urban Planning and Transportation.

Raúl Santiago Bartolomei, PhD, University of Southern California, Los Angeles, 2019, Assistant Professor. International development, housing, climate change, disaster recovery, local and regional economic development, infrastructure planning, and environmental planning.

Jenniffer Santos Hernandez, PhD, University of Delaware, Newark, 2013. Assistant Professor. Collective Behavior and Social Movements, and Disasters, Race and Ethnicity, Integration of Social Vulnerability Perspectives, and Emergency Management in Puerto Rico.

Eduardo Zavala Medoza , PhD, University of Puerto Rico, Río Piedras, 2018. Assistant Professor. Social Work, concentration in Social Policy Analysis and Social Services Administration.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

The student must meet the following requirements, in addition to those established by the Río Piedras Campus:

1. Possess a bachelor's degree from an accredited university with an academic index of 3.00 points or its equivalent.
2. Pass introductory courses in mathematics, statistics, sociology and economics with a grade of A or B. It is recommended to take them during high school. The Graduate School of Planning (EGP) offers the PLAN 5005 course (4 crs.) during the first semester covering the areas of mathematics, statistics, and economics.
3. A one-page, double-spaced essay explaining the reasons for selecting this curriculum.
4. Proficiency in Spanish and English.
5. Management of computerized programs and information systems.
6. Two letters of recommendation using the form that appears on *ApplyYourself*. If necessary, you will be required to attend an interview scheduled by the Admissions Committee.

Required Documents for the Application for Admission

1. Complete the Application for Admission process using the *ApplyYourself* form (The entire admission process is done online, including the payment of the Admission Fee).
2. Credit Transcript
3. Letters of Recommendation
4. Written Essay

GRADUATION REQUIREMENTS:

1. Complete the 46-credit approved program of study in an area of emphasis with an academic index of no less than 3.00 points. Courses must be passed with A or B.
2. Complete the requirements of the degree within a maximum period of four (4) years. In meritorious cases, if the student does not complete the requirements within the regulatory period, he/she may request an extension to the Dean's Office of Graduate Studies and Research through the Graduate School of Planning. (Certification No. 95 of the 2019-2020 Academic Year of the Academic Senate of the Río Piedras Campus).

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	28
PLAN 6076 History and Theory of Planning	3
PLAN 6077 Introduction to the Planning Profession: The Implementation Dilemma	3
PLAN 6602 Geographic Information Systems for Planning	4
PLAN 6552 Methods of Analysis for Planning	4
PLAN 6601 State, Market and Governance in Planning	3
PLAN 6116 Legal System of Planning	3
PLAN 6603 Fundamentals of Planning,	3
PLAN 6996 Planning Practice	5
Courses for Area of Emphasis: Society and Environment	9
PLAN 6135 Society, Environment and Planning	3
PLAN 6607 Analysis Techniques for Environmental Planning	3
PLAN 6617 Environmental Policy and Natural Resources	3
Courses for Area of Emphasis: Urban and Territorial	9
PLAN 6089 Urban and Territorial Planning	3
PLAN 6525 Urban Structure	3
PLAN 6528 Urban Policy	3
Courses for Area of Emphasis: Economic Development and Community	9
PLAN 6604 Theories of Community and Economic Development	3
PLAN 6611 Tools and Techniques for the Analysis of Economic Development Issues	3
PLAN 6605 Economic Development and Community Policies	3
Free Electives	9
TOTAL	46

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PLAN 6076 History and Theory of Planning

Three credits. Three hours of labs a week.

The course examines the historical development of Planning in Puerto Rico and the United States, Latin America and Europe and evaluates its results. It presents the main theoretical debates of the discipline of Planning within its historical framework. It also evaluates planning theories as a method that applies knowledge to action to solve society's economic, social, urban and/or environmental problems in conditions of certainty, uncertainty, risk and ambiguity. It introduces the concepts of general interest and public interest, as well as the central axes of the programme: development and territory, highlighting their topicality. Face-to-face, hybrid and online course.

PLAN 6077 Introduction to the Planning Profession: The Implementation Dilemma

Three credits. Three hours of lecture a week.

Corequisites: PLAN 6076 The course introduces planning, as a process and profession, its methods and objects. It outlines the planning tools available by theme, scale, and context of the intervention. It discusses the governmental challenges to implementation within these contexts and the alternatives to overcome them. It also discusses legal challenges to implementation, e.g., property and inheritance rights, due process requirements, the environmental legal framework, and citizen participation requirements. It provides a window into the areas of emphasis, incorporating the themes, contexts and scales covered in the case studies and guest speakers. Face-to-face course. hybrid and online.

PLAN 6602 Geographic Information Systems for Planning

Four credits. Two hours of lecture, one hour of discussion and one hour of laboratory per week.

Prerequisite: A high school level statistics or mathematics course Lecture and discussion on the method and life cycle of Geographic Information Systems (GIS), in order for students to be able to use GIS technologies for scenario construction and solve planning problems, regulations and permitting, as well as private and public property tenure and ownership. Geographic information technologies, the collection, organization, and interpretation of geographic data will be studied, emphasizing demonstrations and exercises including planning scenarios and their relationship with current regulations and laws. The course will introduce the tools of field collection and publication of results using the concept of maps and products on the internet. Each topic will end with hands-on exercises on the techniques discussed. Face-to-face, hybrid and online course.

PLAN 6552 Methods of Analysis and Research

Four credits. Three hours of lecture a week.

Prerequisite: A high school level statistics course.

Lecture and discussion on methods used for the analysis of economic, social and environmental problems in an urban and regional planning context. Methods of data collection, organization, summarization, visualization and interpretation will be studied, paying particular attention to the management of social data. A greater emphasis is given to the analysis of qualitative data, this is necessary so that they can evaluate alternative proposals to the comprehensive rational method, such as Community Planning.

PLAN 6601 State, Market and Governance in Planning

Three credits. Three hours of seminars per week.

Prerequisites: PLAN 6076, PLAN 6602, PLAN 6077, PLAN 6552, PLAN 6116, PLAN 6603

The course presents the institutional frameworks under which planning is practiced as a profession. It discusses the role and limits of the market and the state. It addresses issues of governance, participation, deliberation, and social/civil movements towards diversity and its limits. It also discusses the ethical and functional conflicts that arise from these contexts. In addition, it addresses the legal impact of privatization on administrative design, the transformation of public law into a market economy, the examination of administrative law legislation and jurisprudence and other legal aspects such as public procurement, access to public information and citizen intervention in administrative processes. Face-to-face, hybrid and online course.

PLAN 6116 The Legal System of Planning

Three credits. Three hours of lecture a week.

Prerequisite: Have a bachelor's degree Seminar: The legal and administrative framework of planning in Puerto Rico and the main instruments of control and regulation of land uses, including zoning, lotting, flood control, historic zones, neighborhood facilities and certifications. Face-to-face, hybrid and online course.

PLAN 6603 Fundamentals of Plan Making

Three credits. Two hours of lecture or one hour of discussion per week. Prerequisites:

PLAN 6076 Corequisites: PLAN 6552 This course is an introduction to the basic elements of a comprehensive local outreach plan

and the process of its elaboration. Emphasis will be placed on the logic behind this type of exercise and its wider application. The course will expose students to the main methods and techniques of data collection, analysis, and presentation for planning and planning. It will discuss the role of different stakeholders in the local planning process and the importance of their effective participation. It will examine various models for involving citizens and citizen organizations in the planning process, and discuss the various roles that planners can play within the framework of a participatory strategy. Students are expected to develop an

understanding of what a plan is (its logic), how we make plans, and the role of institutions and multiple actors in the process of making them. Face-to-face, hybrid course
y online.

PLAN 6996 Practicum-Planning Practice

Five credits.

Prerequisite: PLAN 6076, 6602, 6077, 6552, 6116 and 6603.

This course is the project of the Capstone group of the master's program in planning. Students and faculty collaborate in the analysis of a planning problem and the joint development of a planning instrument. They address issues and conditions specific to the selected area. They clearly link findings and recommendations to field research and/or secondary data. Integrate the theory

and the methods they have learned during the core courses. The course has a real customer. Client varies by semester. The instrument or product to be developed may include methodologies, public policies, plans, programs, projects, guidelines, and regulations, among others. Selecting the appropriate instrument for the situation to be addressed is part of the exercise. They must select a scope and scale appropriate to the nature of this course and the time available. Each student is responsible for the design and programming of at least one intervention. Face-to-face, hybrid and online course.

PLAN 6135 Society, Environment and Planning

Three credits. Three hours of discussion a week.

The study of how human society and nature shape each other over time and the implications of such interactions for planning. Examination of three central themes using the approaches of political ecology and environmental history: (1) the origins and history of cultural values about nature, (2) the role of science in defining environmental problems and in producing images of nature for environmental analysis and regulation, and, (3) the political context of environmental intervention (public policy and planning), as well as social struggles around environmental issues. Face-to-face, hybrid and online course.

PLAN 6607 Analysis Techniques for Environmental Planning

Three credits. Three hours of lecture a week.

This course is aimed at imparting knowledge about the methodologies and techniques of analysis for environmental planning. The main objective is to provide students with knowledge to be able to identify the sources of pollution, the methods and instruments to measure or estimate the magnitude and effects of pollution, the terminology and parameters to express the types, nature, composition and magnitude of pollutants, the elements of judgment to diagnose the nature and magnitude of environmental problems. These will include air pollution aspects; of water, noise, solid waste and visual.

PLAN 6617 Environmental Policy and Natural Resources

Three credits. Three hours of lecture a week.

Prerequisite: PLAN 6076, PLAN 6616 or Teacher's Authorization Corerequisite: PLAN 6135 Introduction to the Physiological and Legal Foundations and Contemporary Debates of Environmental Public Policy. The dominant practices and institutions of environmental management are analyzed, and alternatives from the perspective of sustainability and environmental justice are explored. It seeks to develop a critical view of environmental public policy processes. It discusses the justifications and instruments of environmental public policy, the challenges of its implementation, the techniques of evaluation (cost-benefit and deliberative) of policies, the role of values and public opinion and specific policies of Puerto Rico on: the evaluation of environmental impacts, environmental justice, the role of the federal government and municipalities, citizen participation, forest and water management, coastal zone management, and land use planning. The format of the course is seminary, based on discussion and critical analysis of contemporary readings and issues.

PLAN 6089 Urban and Territorial Planning

Three credits. Three hours of lecture a week.

Prerequisites: PLAN 6076 Corequisites: PLAN 6089 This course seeks to induce the student to think as a strategic urban planner, linking the city to the social, regional, and geopolitical environment. Urban policy and instruments available to address today's urban issues or tensions are defined. Methods of evaluation of public policies in the urban environment are studied. It learns from the urban policy used to address urban problems or tensions throughout history. The urban issues or tensions of the present are discussed, both in Puerto Rico and abroad. Emphasis is placed on the aspects of strategic planning that could help to address them and the aspects that concern the development plans to improve the shape of the city and some plans that show the evolution of urban policies in Puerto Rico. It examines the urban policies that have influenced the shaping of the social and built space of the sector. Face-to-face, hybrid and online course.

PLAN 6525 Urban Structure

Four credits. Three hours of lecture a week.

The geographical, sociological, economic, functional and technological factors that are affecting the shape and structure of urban areas. An ecological approach will be used in this course to develop a better understanding of the forces that are shaping the growth and organization of urban areas.

PLAN 6528 Urban Policy

Three credits. Three hours of lecture a week.

Prerequisite: PLAN 6076 Corerequisite: PLAN 6089 This course seeks to introduce the student to thinking as an urban strategic planner, linking the city to the social, regional and geopolitical environment. Urban policy and instruments available to address today's urban issues or tensions are defined. Methods of policy evolution in the urban environment are studied. It learns from the urban policy used to address urban problems or tensions throughout history. The urban issues or tensions of the present are discussed, both in Puerto Rico and abroad. Emphasis is placed on the aspects of strategic planning that could help to address them and the aspects that concern the management plans to manage the shape of the city and some plans that show the evolution of urban policies in Puerto Rico. It examines the urban policies that have influenced the shaping of the social and built space of the sector.

PLAN 6604 Theories of Community and Economic Development

Three credits. Three hours of seminar per week.

Prerequisite: PLAN 6076 This course combines concepts and theories of "community development" and "economic development" beyond growth. The course approaches community and economic development through two lenses. The first is Shaffer's star, which takes aim at resources, markets, rules, society, decision-making, and community space. The second is Flora's community capital framework, which is based on seven capitals: financial, political, social, human, cultural, natural, and built. To reason about planning problems when applying these lenses, classical and contemporary theories of growth and development, and their application to contemporary problems of community and economic development, are analyzed. The course will also include discussion of these theories in the context of decision-making within local planning from a community and economic perspective. Face-to-face, hybrid and online course.

PLAN 6611 Tools and Techniques for the Analysis of Economic Development Issues

Three credits. Three hours of seminar per week.

Requirement: PLAN 6604 Every planning process begins with three elements: a project or problem, a baseline analysis, and a goal to provide a future scenario. Before proposing solutions, planners seek to understand their communities inside and out, while seeking to identify forces for change. This class teaches you the basic planning methods that planners use to understand a locality. The course entails two streams of knowledge: teaching you how to analyze the current situation, interpreting the analysis, and making projections based on your empirical results.

PLAN 6605 Economic Development and Community Policies

Three credits. Three hours of seminar per week.

Prerequisite: PLAN 6604 The course explores the ways in which economic development policies relate to current discussions of inequality and neighborhood change. It situates community development policy within its historical, political, and institutional contexts. It introduces policies designed to address accessibility and overall opportunity. It presents strategies for creating and preserving access and affordability, including those related to land-use planning. Introduces community economic development policy in the United States and Puerto Rico, focusing especially on small business development, low-wage workers

and economic democracy. It uses scale analysis to place the policies analyzed in the context of federalism. It explores the role of the state in social welfare and the role of collective action in advancing access to opportunity.

OTHER COURSE DESCRIPTIONS:**PLAN 6006 PLANNING INTERNSHIP**

Three credits. 10 hours of internship per week.

Prerequisites: A minimum of 24 credits passed in the planning program. Professional planning practice with academic supervision in which the student has the opportunity to apply in a workplace the conceptual and theoretical knowledge acquired in the master's program. Experience is developed in federal, state or municipal government agencies, public or private corporations or non-governmental organizations. The course requires a minimum of ten (10) hours per week for one semester. The student is supervised by the course teacher and by a professional from the selected work center. The teacher and student meet periodically to discuss the internship experience. Face-to-face, hybrid and online course.

PLAN 6013 Economic Systems Planning

Three credits. Three hours of lecture a week.

Prerequisite: PLAN 6076 Fundamental theoretical knowledge about the behavior of aggregate or institutional economic systems, essential for the study of the professional field of planning. The topics cover microeconomic and macroeconomic models through readings and lectures. The relationship between real and financial resources is studied at both the corporate and aggregate scales. The planning role of management in corporate systems and the formulation of fiscal and monetary public policy are framed within the economic models used as instruments of conceptualization and analysis. (Core course for the specialization in Economic Planning).

PLAN 6016 Reality, Perception and Urban Image

Three credits. Three hours of lecture and practical work per week.

Prerequisite: PLAN 6501, 6502 or teacher's permission.

Discussion of the dynamic interaction between man and the urban environment. Inventory and analysis of the urban landscape and its various components in order to identify the urban reality. Discussion of the perceptual processes and mechanisms through which urban images are configured. Role of diverse cultural and other values in the structuring and valorization of urban images. The main components of urban images. Its usefulness for urban design and urban planning. Special characteristics of the Puerto Rican urban environment as it really is, as perceived by its users and according to the images that are produced. Their role as basic guides for urban design and urban planning to be carried out in Puerto Rico.

PLAN 6027 Marginal Communities and Urban Development

Three credits. Three hours of lecture a week.

The problems of marginalized communities have economic, sociological, psychological and fiscal dimensions. This course emphasizes the interrelationship between squatter settlement and development, especially urban development; how to allocate resources, and how to use the great resource of the marginalized community in development processes. In the developing regions of Africa, Asia and Latin America, annually. The elements of a policy for the integration of marginalized communities into national development processes will be investigated.

PLAN 6028 Advanced Urban Analysis

Three credits. Three hours of lecture a week.

Prerequisite: PLAN 6502, 6509 Presentation of the most advanced techniques used in the analysis of the urbanization process and the preparation of urban growth and development plans. Techniques used in the study of land use, housing, transportation; Cost-benefit analysis of alternative patterns of urban development. Methodology used to determine the space required for the different economic and population activities that take place in an urban area.

PLAN 6029 Caribbean Urban Development: History, Typology, and Structure

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate Historical and Typological Analysis of Urban Development in the Caribbean. Emphasis will be placed on the discussion of the economic, demographic, social and cultural factors that have significantly influenced the Antillean urban structure. A typology of Antillean cities and the characteristics of the Antillean city in terms of its architecture, literature, painting, theater, cinema and religion will be discussed.

PLAN 6030 Transportation and Land Use

Three credits. Three hours of lecture a week.

Prerequisite: PLAN 6502 Analysis of patterns of interaction between land uses and travel generation and attraction. Models and techniques for the planning of transportation systems. Design elements and basic characteristics of different conveyor systems.

PLAN 6037 Urban Design

Three credits. Three hours of workshop and one hour of discussion per week.

The three-dimensional design of specific development projects within the normative context of the general urban plan. Problems may involve issues such as: new developments expanding an existing urban area or an entirely new town, or large-scale redevelopment with different kinds of buildings
y land use or a detailed study of a particular civic core.

PLAN 6038 Economic Analysis

Three credits. Three hours of lecture a week.

Examination of macroeconomic and macroeconomic theories, especially those relating to economic development.

PLAN 6041 Development Management

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

Prerequisites: PLAN 6076 and 6510.

Prerequisite: PLAN 6013 Lectures, readings, and case studies worldwide on natural and financial resource management, sustainable development, the study of the literature on the post-industrial era, and concepts related to finance and risk management. Explanation of a strategy to modernize certain economies in which the State has occupied a place analogous in importance and similar in certain respects to the agricultural sector, as a container of a great potential for hidden savings.

PLAN 6046 Development Projects

Three credits. Four hours of lecture per week.

The preparation, presentation, evaluation of development projects and their relationship with global and sectoral economic plans. Technical and commercial feasibility.

PLAN 6047 Tax and Financial Planning

Three credits.

This course covers the following: 1) The main elements of the theory regarding the influence of a government's budget and major types of taxes and subsidies, on the allocation of real and financial resources between consumption and investment, and between different forms of consumption and internal and external investment. 2) The core of monetary and banking theory. (3) The essential characteristics of budget processes and financial institutions; and 4) The application of the theory and use of institutions in realistic, fiscal and financial programming and planning. The academic presentation will be accompanied by practical workshop exercises, stage by stage.

PLAN 6048 Localization Theory

Three credits. Three hours of lecture a week.

Study of the general theory of localization and its variants according to which they are applied to different economic sectors. Pragmatic studies of the application of the theory in national, regional, and signature or project planning will be discussed and evaluated.

PLAN 6050 Regional Analysis and Programming Techniques

Three credits. Three hours of lecture a week.

The student is related to the analytical techniques that have been used in regional or spatial analysis. These techniques are divided into two main groups: those that arise from the study of geographical phenomena and those that are modifications of techniques developed for the study of social and economic problems outside of a regional spatial context. Among the latter are input-output, programming and other techniques. In the first group, special importance is given to the severity and potential models.

PLAN 6059 Space Decision Support Systems

Four credits. Two hours of lecture, one hour of discussion and two hours of laboratory.

Prerequisite: Preferred, but not essential: PLAN 6020, PLAN 6530, PLAN 6549 Conference, discussion and laboratory on the theory and practice related to systems to support policy evaluation and decision-making on land use (SDSS). Students will primarily examine the system developed by the EGP known by the acronym "Xplorah," used for territorial planning in Puerto Rico. This course has the possibility of equivalence with PLAN 6510 Laboratory of Methods for Diagnosis, Prognosis and Programming.

PLAN 6068 Advanced Reading in Planning

Three credits. Three to six hours of lab time a week.

Prerequisite: Permission of the Director Special course for students who wish to pursue advanced studies in topics or areas of interest. Face-to-face, hybrid and online course.

PLAN 6070 Social Planning Techniques

Three credits. Three hours of lecture a week.

Study of techniques and methods for social service planning. These include cost-benefit analysis, clientele analysis, and human resources analysis, among others.

PLAN 6075 Research Project II

Three credits.

Prerequisite: Permission from the Director Special course for students who wish to pursue advanced studies in topics or areas of interest.

PLAN 6095 Energy Policy Planning

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission Application of analysis and planning methods related to energy considered as a scarce resource. Technical aspects of generation technology and its distribution and implications for costs and environmental quality will be interrelated. Aspects related to energy policy planning for Puerto Rico will be considered within an international context of scarcity, use, productivity and conservation. Due to the evident scarcity of traditional conventional energy resources, energy policy planning is urgent and necessary.

PLAN 6096 Social Analysis and Policies for Planning

Three credits. Three hours of lecture a week.

Prerequisite: PLAN 6076 The foundations and functioning of the welfare state in market economy societies and current restructuring on the basis of private enterprise, self-management and community action are studied. It examines the objectives and instruments of social policy to achieve greater well-being and quality of life, security, equity and community solidarity and their indicators, as well as their instrumental use for economic development, modernization and citizen participation in planning processes. The methods and techniques of social policy analysis are used.

PLAN 6097 Economic Policy and Analysis for Planning

Three credits. Two hours of lecture and one discussion a week. Prerequisite:

Undergraduate Economics Course Corerequisite: PLAN 6076 The basic elements of the instruments of micro and macro economics and their application in the specialized areas of planning: urban-territorial, environment

and social. It discusses the application of economic analysis for the achievement of social welfare, land use, impacts on the environment and natural resources in the current context of globalization.

PLAN 6098 Environmental Economics for Planners

Three credits. Two hours of lecture and a discussion.

Prerequisite: PLAN 6097 Lecture and discussion for Master's Degree in Planning students on the configuration of economic incentives that may worsen or improve environmental conditions. It studies human behavior towards its natural environment and how the economic system can be restructured to avoid deforestation, erosion, desertification, salinization and the loss of biological and genetic diversity. It will discuss the public policy and institutional changes needed to strike a balance between environmental aspects and economic institutions, taking into account human needs in the context of a broader ecosystem. The necessary methods of analysis will be applied to understand why the natural system deteriorates, its consequences and the measures that can be taken to stop it.

PLAN 6115 Scenario Construction and Long-Range Planning

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma Various methods of constructing scenarios as instruments of long-term projection. Examination of various techniques for stage construction; Delphi, mathematical experimentation models and others. Use of scenarios in the long-term projection of changes in technology and other variables, and the use of these techniques in planning through the examination of cases.

PLAN 6117 Computer Applications in Planning

Four credits.

Prerequisite: Have a high school diploma The application of computer programs to the planning process including its descriptive, analytical, alternative preparation, regression, programming and spatial interaction phases. This course could be up to 25% of the time using distance resources. Face-to-face, hybrid and online course.

PLAN 6118 Needs Study and Customer Analysis

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma Examination of alternative models of needs studies and clientele analysis for community planning. Discussion of human service planning models, activities, pre-studies, including the determination of required data, methods of collecting information from secondary and primary sources, as well as techniques for analyzing information and communicating results.

PLAN 6125 Social Impact Analysis of Public Projects

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma The social element in the evaluation of public projects and programs in the process of planning and development of public policies. Discussion of the conceptual and empirical aspects of analyses and evaluations of social impacts at the institutional, professional and community levels, as well as the presence or absence of distributional effects
y equitable aspects of proposed or existing programs, projects, plans, or policies.

PLAN 6485 Social Services Planning

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Head of School.

This course will cover the practical theory, problems and programming methods that currently characterize more and less advanced societies in relation to certain social services, such as: education, health, social security, housing, public order, recreation, etc. The course will be oriented in terms of the possible comparison and application of the social services policies of different countries to the case of Puerto Rico and other developing countries. It is especially designed for social work students.

PLAN 6505 Analysis and Synthesis of Environmental Quality and Urban Forms

Three credits. Three hours of lecture and practical work per week. Prerequisite: PLAN 6016 Discussion and practical application of specialized urban design techniques and environmental psychology to identify, analyze, and measure the quality of components and the total urban environment, as experienced by users, designers seeking improvement, and citizen and government leaders. Discussion and practical application of specialized urban design techniques to synthetically present alternative solutions to problems related to environmental quality and urban forms; conducting surveys, inventories, data collection, and graphic and other presentations of the urban design solutions that are recommended for the specific problems of the Puerto Rican urban reality.

PLAN 6508 Advanced Urban Design Seminar

Three credits. Three hours of lecture and practical work per week.

Prerequisite: PLAN 6016, 6505 or teacher's permission.

Discussion on specific urban issues of special relevance at a given time or also, the periodic or recurring discussion each time this seminar is offered of various aspects of those topics that, due to their breadth, should be dealt with on several occasions and even by different groups of students, in order to benefit from different visions and approaches. The central theme will always revolve around urban design as a basic component of the urban planning that must be carried out in Puerto Rico. Some of the topics that have already been configured as possible for successive development are: future urban life and forms, new communities ("New Towns"), urban design, land use and regulatory plan, urban design and cultural, psychological, physiographic parameters, etc. of Puerto Rico.

PLAN 6510 Laboratory of Methods for Diagnosis, Prognosis and Programming

Three credits. Three and a half hours of lab time and one hour of lecture time per week.

Prerequisite: PLAN 6076, PLAN 6019 Correct: PLAN 6077 Statistical techniques and analysis, projection and prognosis, simulation model, social dynamics analysis methods. A practical approach is used through the application of games and the intensive use of the resources of the Pier Luigi Caldari Academic Computing Center. Students learn how to develop scenarios to evaluate alternate futures through simulation models and role playing. Students develop a group project that simulates a professional experience through which they apply programming and project management techniques. The acquisition of writing skills for the clear communication of ideas and arguments is emphasized.

PLAN 6513 Seminar: Planning Project Proposal

Three credits. Three hours of seminar per week.

Prerequisites: Approval of core courses Discussion of the content and requirements of the Planning Project. Elaboration of the theoretical and methodological framework of the project. Preparation and written submission of the Planning Project Proposal.

PLAN 6526 Design of Urban Sectors

Three credits. Three hours of lecture a week.

Principles, rules and procedures of land-use planning at the neighbourhood and community level; neighborhood vs. communal functions; movement within cities; regulations for neighborhood and community development; technologies relevant to the physical design of neighborhoods and communities; residential sectors; commercial centers and institutional areas; the perceptual elements of the urban environment.

PLAN 6527 Housing and Urban Renewal

Three credits. Three hours of lecture a week.

Analysis of the housing problem and government policies and programs aimed at solving it. Review of legislation, production, organization, financing, urban renewal, and communal facilities related to housing.

PLAN 6529 Seminar: Urban Spatial Segregation

Three credits. Three hours of lecture a week.

Discussion of the characteristics and effects of spatial segregation, various models of segregation, including the dual city, its economic and social aspects, the isolation of various groups from society, and government policy on the subject.

PLAN 6530 Transportation Design

Three credits.

Prerequisite: PLAN 6502 Geometric design of internal circulation systems including: general concepts, typical sections, criteria, standards and controls, capacity, relationship to adjacent land uses and development, right-of-way issues, and access control; Characteristics and schematic geometric design of terminal areas.

PLAN 6535 Urban Legislation, Administration, and Financing

Three credits.

Examination and evaluation of the different legal, administrative and financial instruments for the implementation of policy on urban norms and plans, as well as for the control and guidance of urban land use and other urban activities.

PLAN 6537 Financing Urban Development and Housing

Three credits. Three hours of lecture a week.

Analysis of the process of urban development from the economic point of view and the flow of financial resources. The primary focus is on the decision-making system that channels these resources. It deals with the economic aspects of urban development, the national-urban relationship, urbanization and industrialization, the role of new sectoral investment, the

economics of decentralization and centralization, and the elements of an urban development policy.

PLAN 6538 Urban Planning and Programming

Three credits. Three hours of lecture a week.

The process by which the guidelines established by public urban development policies are translated or integrated into an urban master development plan (or regulatory plan) will be examined and discussed. Also, the way in which the projections

On a macro scale, the social, economic and physical-spatial aspects implicit in the various public actions (transportation, land use, housing, education, health, etc.) are programmed or implemented at the less local urban scale, paying special attention to administrative and financial aspects. Face-to-face, hybrid and online course.

PLAN 6546 Econometrics

Three credits. Three hours of lecture a week.

The course attempts to train students on the various techniques of economic programming. Distinguish between programming and projection. It discusses the various methods of projection such as simple and linear. It analyzes the different types of equations to harmonize competitive objectives, such as income and employment. It analyzes input and output techniques, and their application to the Puerto Rican case. Discusses the techniques and methodology of project formulation and selection.

PLAN 6547 Economic Programming Techniques

Four credits. Four hours of lecture per week.

A basic examination and presentation of applied mathematics (matrix algebra, linear programming, and others), necessary for econometrics for planning analysis.

understand y prepare models

PLAN 6568 Regional Development Policy

Three credits. Three hours of lecture a week.

This course will present and study the main problems related to regional or territorial development faced by countries. These include the problems of uneven development in different regions, overurbanization, the criteria used for resource allocation at the subnational level, the role of natural resources in regional development, and others. The different policies that have been used in regional development will be analyzed, using examples from Puerto Rico and Latin America. The great need for national urban development policies and the attempts that have been made in different countries will be discussed.

PLAN 6584 Evaluation of Plans, Programs and Projects

Three credits. Three hours of lecture and discussion and three and a half hours of workshop per week.

Prerequisites: PLAN 6076 and PLAN 6019 Corequisites: PLAN 6077 and PLAN 6549 The summative and formative evaluation of plans, programs and projects using quantitative and evaluative techniques in order to weigh the discrepancies between what is planned, its implementation and achievements in terms of effectiveness and efficiency and to formulate recommendations for its improvement. Application to situations to identify and measure impacts on beneficiaries and harmed parties. Techniques for presenting results are included.

PLAN 6586 Social Analysis Techniques

Three credits. Three hours of lecture a week.

Social policy planning requires qualitative techniques that complement quantitative methodology, particularly in the programming aspects involved in the convergence of community development. The interests of positively and negatively affected groups must be adequately understood through specialized techniques that allow the planner to analyze the social consequences of government action or inaction.

PLAN 6590 Educational Planning

Three credits. Three hours of lecture a week.

Discussion of the most important purposes of the educational system influenced by different philosophies and demands of education. The fundamental process in educational planning and different approaches and techniques used in the field are studied.

PLAN 6596 Community Development Planning

Three credits. Six hours of field practice and lecture per week.

The main purpose of this course is to provide theoretical and practical instruction that helps students acquire the knowledge, attitudes, and skills that enable them to perform the role of the social planning professional in programs aimed at community development using the following definition as a reference: Community development is the process by which a community identifies its needs and objectives. It organizes and hierarchizes them, develops confidence and willingness to work with these needs and objectives, locates and utilizes both internal and external resources to deal with these needs and objectives, takes action on them, and thereby extends and develops attitudes and practices of communal cooperation and collaboration.

PLAN 6597 Urban Development and Environmental Change

Three credits. Three hours of lecture a week.

Urban-regional planning and development depends on electric power, aqueduct systems, and residence. The technological mix within each system determines such variables as employment, income, land use, and environmental change. This course discusses the essential role of environmental resources in urban systems and their implications for the selection of new technologies for the urban development process.

PLAN 6598 Communities in the Face of Environmental Problems

Three credits. Three hours of lecture a week.

Analysis of the scientific, organizational, educational, and legal aspects of environmental problems and their impact on communities. It studies the economic and technological changes of the past 40 years that underlie these problems and the mobilizations of communities in the face of them. Visits will be made to communities active in environmental struggles. -

PLAN 6606 Municipal Planning Seminar

Three credits. Three hours of lecture a week.

This course analyzes the problems of centralization and decentralization, citizen participation at the municipal level, municipal problems in political, economic, social, urban terms, etc. And the municipal organization for the promotion of change and development. It analyzes specific cases of municipalities in Puerto Rico and the probability of the organization. Face-to-face, hybrid and online course.

PLAN 6609 College Planning

Three credits. Three hours of lecture a week.

A course on policies and planning of the University Education System and on the organization and planning processes of the Collegiate Campuses. Topics such as the following are discussed: educational policy planning; planning of higher education at the regional and state levels; criteria for the location and site selection of the Venues; specialization and size of venues; enrollment projections; academic planning by departments; structure and organization of courses; space utilization studies; campus development programming; university planning models; design considerations; traffic and parking studies; the campus development plan; landscaping and site improvements; planning and University District renewal; building programming; university housing; Academic buildings and central university services.

PLAN 6614 Project Planning

Three credits. Three hours of project per week.

Prerequisite: 24 credits passed from core and elective courses; PLAN 6513 and have passed the degree exam.

The project covers the entire planning process. An issue is defined and analyzed as a planning problem. Study of their causes or structures, formulation of interventions, alternatives, and evaluation and selection among them. Design of an implementation plan and an evaluation

method. Oral presentation and defense of the project before the Board of Advisors and the full faculty.

PLAN 6618 Environmental Design

Three credits. Three hours of lecture a week.

The environmental value of good design in human populations, rural and urban, is in constant confrontation with technological innovations and accelerated change. This course seeks to evaluate design from the point of view of the environment with a view to minimizing the negative values of development and stimulating its positive, social, economic and spatial values.

PLAN 6619 Environmental Studies for Planning

Three credits. Three hours of lecture a week.

It is evident that planning and the environment are so intimately related that it is almost impossible to conceive of planning today without careful consideration of the environmental relationships to the proposed plan. In order for this relationship to be better understood, it is necessary for the aspiring planner to be properly prepared and trained in some scientific knowledge relevant to the environment. Without this scientific basis, the knowledge acquired in other courses that involve aspects of ecology and methods in the conservation of the courses: water, air, soils, forests, etc., remains incomplete and to some extent superficial.

PLAN 6620 Seminar: Corporate Strategic Planning

Three credits. Three hours of lecture a week.

Prerequisite: PLAN 6616 Seminar on Discussion and Application of Modern Corporate Strategic Planning Techniques.

PLAN 6621 Environmental Controls Administration

Three credits. Three hours of lecture a week.

Prerequisites: PLAN 6076, 6077 Analysis of the environment from the administrative perspective. Examination of how environmental management has been conceived, structured, and practiced. Study of the main legal and administrative strategies for the protection of environmental resources.

PLAN 6635 History of Urban Planning in America

Four credits. Four hours of lecture per week.

Systematic analysis of the history of urban planning in North, South America, and the Caribbean, beginning with the prehistoric urban settlements of the Americas, the first urban centers in the Caribbean in the sixteenth century, and the evolution of urban development in the New World until the first half of the twentieth century. It will examine the sources of written and graphic materials available in local archives and libraries and methods of analysis to interpret and understand urban planning and development throughout history. Special emphasis will be placed on the tradition of urban development and planning in Puerto Rico and the Caribbean.

PLAN 6896 Continuation of Project Planning

No credit. Nine hours of lecture per week.

Prerequisite: PLAN 6615 The course is the continuation of the planning project. The student will continue with his research, allowing him to make use of the facilities of the Libraries and other sources available from the School.

PLAN 6995 Advanced Reading in Planning

From one to six credits. Three to six hours of lab time a week. Prerequisite: Permission of the director Special course for students who wish to pursue advanced studies in topics or areas of interest.



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Email: egp.rrp@upr.edu

Portal: <http://graduados.uprrp.edu/planificación>, <https://planificacion.uprrp.edu/>

DEGREE: Post Baccalaureate Academic Certificate in Disaster Planning

TEACHERS:

Barreto Orta, Maritza, PhD, University of Puerto Rico, Mayagüez Campus, 1996. Remote Sensing, Natural Disaster Management, Coastal Zone Management, Geology, Physical Geography, Remote Sensing Imagery.

Jaramillo Nieves, Lorna G ., PhD., University of Colorado at Boulder, 2003, Doctor of Philosophy, Geology. Epistemology of science: The study of the construction of knowledge in the geological sciences. • Groundwater modeling. • Geological risk studies and environmental geology. • Application of remote sensing techniques to geological and environmental problems.

Roman Rivera, Glenda M ., MS, JD., University of Wisconsin-Madison WI 2008,2020. M.S in Environmental Monitoring-specialist Remote Sensing. University of PR- School of Law – Juris Doctor.

Santiago Bartolomei, Raúl , PhD, University of Southern California, Los Angeles, 2019, Assistant Professor. International Development, Housing, Climate Change, Disaster Recovery, Local and Regional Economic Development, Infrastructure Planning, and Environmental Planning

Santos Hernandez, Jennifer , PhD, University of Delaware, Newark, 2013. Assistant Professor. Collective Behavior and Social Movements, and Disasters, Race and Ethnicity, Integration of Social Vulnerability Perspectives, and Emergency Management in Puerto Rico.

ADMISSION REQUIREMENTS:

The Certificate Program in Planning for Disaster Reduction has space for fifteen students in each cohort and offers **three admission options**:

- A.** This first option is aimed **at regular students pursuing studies leading to the master's degree in Planning at the Graduate School of Planning (EGP) of the Río Piedras Campus of the University of Puerto Rico.** Students pursuing a master's degree in Planning at the UPR's Río Piedras Campus must have 50% of the master's degree courses approved and have a minimum academic index of 3.0 at the time of applying for admission to the Certificate program.
1. The student will apply for admission by completing the Academic Evaluation Request for Admission to the Certificate in Planning for Disaster Reduction form to evidence that he/she has completed 50% of the courses of the master's program in Planning. To access the form, you must contact the EGP student officer.
 2. In addition, the student must complete the application for admission on the platform of the Dean's Office for Graduate Studies and Research (DEGI)
– <https://app.applyyourself.com/?id=upr-grad>
- B.** This second option is aimed **at people with a master's degree in planning or areas related to disaster reduction planning (e.g.: sociology, geography, economics, political science, engineering, law (juris doctor), public administration, social/community psychology, architecture, public health, epidemiology, geology, social work, or environmental sciences, among others).** This option requires those interested to apply for admission to the Graduate School of Planning specifically for the Academic Certificate. Requirements include the following:
1. Have a master's degree with an academic index of at least 3.0.
 2. Complete the application for admission on the platform of the Dean's Office for Graduate Studies and Research (DEGI)
<https://app.applyyourself.com/?id=upr-grad>
 3. Those students with a master's degree in related areas admitted must complete the Introduction to Planning course during the first semester of their admission to the certificate program.
 4. In addition, it should include:
 - 2 official credit transcripts of completed degrees
 - 1 letter of recommendation

C. This third option is aimed at **regular students pursuing studies at the master's level at the Río Piedras Campus of the University of Puerto Rico**. Students pursuing a master's degree in any of the related disciplines must have 50% of the master's degree courses passed and have a minimum academic index of 3.0 at the time of submitting their application.

1. The student will apply for admission to the certificate with an academic evaluation from the Student Officer of his/her academic program that evidences satisfactory completion of 50% of the courses leading to the master's degree while maintaining an academic index of 3.0.
2. In addition, the student must complete the application for admission on the platform of the Dean's Office for Graduate Studies and Research (DEGI)
<https://app.applyyourself.com/?id=upr-grad>
3. Students pursuing studies in other master's programs on campus who meet the established requirements and are admitted to the certificate program must complete the Introduction to Planning course during the first semester of their admission to the certificate program.
4. In addition, it should include:
 - 2 official credit transcripts of completed degrees
 - 1 letter of recommendation

The evaluation process for all applications (**Option A, B, and C**) includes an **interview** with the Certificate Admissions Committee.

GRADUATION REQUIREMENTS:

Enrolled students will be able to complete the Certificate in three consecutive semesters. The student must pass sixteen or seventeen credits, as the case may be, with a grade of A, B or C and an overall GPA of 3.00 or higher.

PROGRAM OF STUDY:

Program Requirements		Credits
First semester (core courses)		
PLAN 6001	Introduction to Planning Theory and Practice	1
PLAN 6002	Disaster Planning Theory	3
PLAN 6003	Natural Hazards and Hazards	3
Subtotal		7
Second semester (core courses)		

PLAN 6004	Research Methods for Disaster Planning	3
PLAN 6105	Regulatory and Public Policy Instruments for Disaster Planning	3
Subtotal		6
Third Semester (choose an elective)		
PLAN 6106 Elective	Introduction to Critical Infrastructure	3
PLAN 6107 Elective	Development and Social Vulnerability	3
PLAN 6108	Professional Seminar	1
Subtotal		4
Total	<ul style="list-style-type: none"> • 16 for those with 50% or more credits approved by the MP in Planning and, • 17 credits for students from other programs who have to take the 1-credit Introduction course. <p>During the third semester, all students must select one of the two elective courses offered.</p>	

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PLAN 6001 Introduction to Planning Theory and Practice

A credit. One lecture a week This course provides an introduction to planning theory for practitioners. It covers the basic theoretical approaches to planning as a decision-making process, as well as its impacts on society and territory. The course includes an ethical perspective on planning and the role of the planner, based on a case study approach to disaster recovery. The student has the opportunity to apply planning theory to real and contextual situations that address the planning problem, roles of the planner, stakeholders, and alternatives to solve planning problems. This course will be offered face-to-face, hybrid, distance learning, and online.

PLAN 6002 Theory of Disaster Planning

Three credits. Three hours of lecture a week.

The course seeks to introduce students to the main theoretical tools for disaster reduction. It exposes them to the operational frameworks of emergency management, as well as to the complex and exponential dynamic properties that characterize emergency management; the determinants of risk; and the social production of the effects of disasters. This course will be offered face-to-face, hybrid, distance learning, and online.

PLAN 6003 Natural Hazards and Hazards

Three credits. Three hours of lecture a week.

The course focuses on providing the student with basic knowledge about the origin, processes, occurrence and spatial distribution of natural hazards and risks such as earthquakes, tsunamis, hurricanes and tropical storms, extratropical cyclonic systems, floods (riverine and coastal), landslides, storm surge, tidal surges associated with extratropical events, droughts, coastal erosion, among others. Emphasis will be placed on understanding the challenge presented by climate change, bio/climatic change, the occurrence of extreme events and how they affect the physical and social vulnerability of a geographical area. This course will be offered face-to-face, hybrid, distance learning, and online.

PLAN 6004 Research Methods for Disaster Planning

Three credits. Three hours of lecture a week.

This course exposes the student to the application of methodological tools and planning techniques that support disaster reduction according to the stages of the disaster cycle, including quantitative, qualitative, and mixed methods. The course is divided into three units or modules: Preparedness and Mitigation Techniques, Spatial Dynamics Analysis Techniques, and Post-Disaster Planning Techniques. This course will be offered face-to-face, hybrid, distance learning, and online.

PLAN 6105 Regulatory and Public Policy Instruments for Disaster Planning

Three credits. Three hours of lecture a week.

This course provides an overview of regulatory frameworks and public policy instruments that affect government decision-making before, during, and after disasters. It covers the progression of public policy related to disasters and the conceptual and analytical tools that can inform government decision-making in disaster reduction planning and management. It emphasizes key management policies and procedures, and how they inform mitigation decisions and, ultimately, the experiences of those affected by disasters. Students will be introduced to fundamental municipal, national, and federal policies and documents. This course will be offered face-to-face, hybrid, distance learning

y online.

PLAN 6106 Introduction to Critical Infrastructure

Three credits. Three hours of lecture a week.

This course offers a critical and comprehensive look at understanding the critical infrastructure, in all its complexity, of essential services for citizens (drinking water, food, medical resources, sanitation services, electricity, transportation and telecommunications, among others). It includes an analysis of cascade failures (multiple), as well as the interdependencies, social dimensions, and governance and institutions that govern infrastructure development and management in light of disasters. This course will be offered face-to-face, hybrid, distance learning, and online.

PLAN 6107 Development and Social Vulnerability

Three credits. Three hours of lecture a week.

This course provides the student with the opportunity to understand the study of social vulnerability and its importance for disaster reduction planning. The course examines how individuals or groups have expertise in disaster reduction planning. In addition, it examines how individuals or groups have different experiences in disaster situations, elaborates on the capacities of different groups to promote resilience; and discusses how planning can reduce social vulnerability to disasters. This course will be offered face-to-face, hybrid, distance learning, and online.

PLAN 6108 Professional Seminar

A credit. One hour of seminar per week.

The seminar offers the student lessons learned by professionals who come from the governmental, academic, community and third sector sectors. Topics to be discussed include developing and creating new risks; socio-cultural competencies for comprehensive disaster risk management, challenges and solutions for interagency coordination, collaboration and communication; management of consultancies and recovery projects; development of adaptation, mitigation and post-disaster recovery plans; risk awareness and communication, among others. The purpose of the seminar is to expose a to an in-depth and realistic discussion on aspects of development, creation and hazard mitigation and post-disaster recovery; and planning to reduce the causes and dynamic pressures that create unsafe conditions and disaster risk. The seminar will be offered in face-to-face, hybrid, distance and online modalities.

Faculty of Natural Sciences





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<http://biology.uprrp.edu/>

DEGREE: Master of Science with a major in Biology

TEACHERS:

Ackerman, James D., Ph.D, Florida State University, 1981. Professor. Ecology and evolutionary biology; invasive species biology; biogeography; plant systematics; biology of orchids. Ecology and Evolutionary Biology; invasive species biology; biogeography; plant systematics; Biology of orchids. ackerman.upr@gmail.com

August, Joseph, Ph.D. Brandeis University (2008), Associate Professor. Molecular Genetics, Circadian Rhythms, Neuroscience. jose.agosto1@upr.edu

Aide, T. Mitchell, Ph.D. University of Utah, 1989. Professor. Tropical forest ecology, conservation, biodiversity monitoring, land use patterns. tmaide@yahoo.com

Bayman Gupta, Paul, Ph.D. University of California at Berkeley, 1987. Professor. Mycology; Phytopathology; Mycorrhiza; Microtoxins; Biodegradation. bayman.upr@gmail.com

Burrowes, Patricia A. Ph.D. (1997). University of Kansas. Professor. Factors affecting incidence and prevalence of chytridiomycosis among tropical mountain amphibians. paburrowes@uprrp.edu

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García Arrarás, José E ., Ph.D, Harvard University, 1981. Professor. Organogenesis; developmental biology; Cellular and molecular aspects of regeneration. rjegarcia@hpcf.upr.edu

Ghezzi, Alfredo, Ph.D, University of Texas at Austin (2006), Assistant Professor. Behavioral Genetics, Epigenetics, Addiction, Molecular Neuroscience. alfredo.ghezzi@upr.edu

Giray, Tugrul, Ph.D, University of Illinois, 1997. Professor. Social behavior of the honey bee; physiology; behavioral genetics. tugrul.giray@upr.edu **Joglar, Rafael**, Ph.D,

University of Kansas, 1986. Professor. Systematics, ecology and conservation of West Indian reptiles and amphibians; biology of neotropical frogs of the *Eleutherodactylus* gene; Conservation biology. rjoglar@gmail.com

Lasalde Dominicci, José A ., Ph.D, University of Puerto Rico, 1988. Professor. Structure and function of the acetylcholine receptor; lipid-protein interactions in biological membranes; neuronal acetylcholine receptor and nicotine addiction. jlalalde@gmail.com

Maldonado Vlaar, Carmen S ., Ph.D, Northeastern University, 1994. Associate Professor. Neurobiology of Drug Addiction; behavioral neuropharmacology; Functional neuroanatomy. csmaldonado.upr@gmail.com

Massey, Steven E ., Ph.D, University of Kent at Canterbury, 2004. Associate Professor. Bioinformatics; molecular evolution; genome evolution; the origin of life; Complexity smassey@hpcf.upr.edu

Papa, Riccardo, Ph.D: University of Parma, Italy (2003), Assistant Professor. Population Genetics, Development, Systematics. Rpapa.lab@gmail.com

Peterson, Esther, Ph.D: University of Michigan-Ann Arbor (2009). Breast Cancer, Cell Biology, Cancer Biology, Signaling Pathways. esther.peterson@upr.edu

Restrepo, Carla , Ph.D, University of Florida, 1995. Associate Professor. Landscape ecology; macroecology; frugivory and seed dissemination; Conservation biology. crestre@hpcf.upr.edu

Rodríguez-Martínez, José A., Ph.D, University of Puerto Rico, 2009. Assistant Professor. Molecular recognition of nucleic acids; Functional genomics; Transcription factors . jose.rodriguez233@upr.edu

Sabat, Alberto M., Ph.D; State University of New York, 1990. Professor. Population biology and demography in plants and animals. sabat1@upr.edu

Santiago Valentín, Eugenio Ph.D, University of Washington, Seattle, 1999. Professor. Plant Systematics and Evolution, Island Plant Biology, Conservation. eugenio.santiago@upr.edu

Toranzos, Gary A ., Ph.D., University of Arizona, 1985. Professor. Environmental microbiology: behavior of microorganisms produced by genetic engineering, gene transfer in the environment; environmental pollution and biodegradation of xenobiotics. gary.toranzos@upr.edu

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

Students will need to meet the following specific requirements:

1. *Application for Admission to Graduate Studies* in electronic format through the *ApplyYourself* platform.
2. Take at least one course in two of the following three areas: (1) genetics, (2) developmental biology, cell biology, and molecular biology, or (3) ecology, evolution, and organismal biology
3. Transfer, readmission, or reclassification forms as needed.
4. The following one-year courses with your lab: General Chemistry, Organic Chemistry, General Physics
5. A Calculus I Course
6. GRE (Graduate Record Examination) Results
- 7.

GRADUATION REQUIREMENTS:

1. Comply with the general requirements for graduation in force at the Río Piedras Campus.
2. Complete 30 credits with an average of no less than 3.00 points.
3. All students with no previous experience in university teaching must work as a teaching assistant. A minimum of one semester is required.
4. Candidates for the master's degree are those students who have passed the oral and written exam and have defended the thesis proposal.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	18
BIOL 6999 Special Topics in Modern Biology	2-4
BIOL 6001 & 6002 Colloquium in Biology I & II	2
<i>Thesis</i>	6
BIOI 6997 Research for Master's Thesis	1-6
BIOI 6998 Continuation of Thesis Research	1-2
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

BIOL 6001 Colloquium in Biology I

A credit. One hour of lecture per week.

Prerequisites: Graduate students in the Biology Graduate Program.

Seminar program of the Department of Biology for the first semester of the academic year. Weekly seminars on any topic of biology by local, national and international renowned scientists.

BIOL 6002 Colloquium in Biology II

A credit. One hour of lecture per week.

Prerequisites: For graduate students in the Graduate Program in Biology Department Seminar Program for the second semester of the academic year. Weekly seminars on any topic of biology by local, national and international renowned scientists. This course can be repeated up to a maximum of two credits.

BIOL 6997 Research for Thesis

From one to six credits.

Research for master's thesis.

BIOL 6998 Continuation Research for Thesis

One to two credits.

Continuation of Master's Thesis Research.

BIOL 6999 Special Topics in Modern Biology

Two to four credits. One to three hours of lecture and three to six hours of lab per week.

Prerequisite: Principal's permission. It can be taken repeatedly, up to a maximum of 8 credits.

Lectures, lectures, laboratory or field work; by specialists in the field from the department's faculty or visiting professors.

OTHER COURSE DESCRIPTIONS:

BIOL 6006 Symbiosis of the Organelle to the Microsystem

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

Prerequisites: Have taken two of the following courses: BIOL 3349, BIOL 3410, OR BIOL 3705 and teacher's permission.

New concepts on the dynamics of interactions between microorganisms are presented and their hosts, and recent studies in the area of microbiomes are discussed. The student will update on developments in this new area of study, y gain seminar presentation and essay writing skills.

BIOL 6007 Reproduction in Plants

Three credits. Three hours of lecture and three hours of lab per week.

Prerequisites: BIOL 3017, 3410 and/or instructor's permit.

An analysis of the ecological, systematic, and evolutionary consequences of the reproduction of flowering plants. Sexual reproduction systems, gametophyte development, pollen-stigma interaction, pollination syndromes, gene flow, reproductive isolation, optimal theory, competition, co-evolution, limitations to fruit and seed production, flowering and seed dispersal strategies, and speciation in angiosperms.

BIOL 6010 Microbiomes

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

New concepts about the dynamics of interactions between microorganisms and their hosts are presented, and recent studies in the area of microbiomes are discussed. The student will be updated on developments in this new area of study and acquire seminar presentation and essay writing skills.

BIOL 6035 Neuropharmacology

Three credits. Three hours of lecture a week.

Prerequisite: BIOL 3101-3102, BIOL 5548 or equivalent.

One of the goals of this introductory course is to expose students to the basic fundamentals of neuropharmacology. During the course of the course, the student will have the opportunity to describe and understand the functioning of the neurochemical transmission of the Nervous System. It is expected that the student will be able to develop the critical analysis of scientific articles referring to one of the topics discussed in the class. In addition to this, the student will learn about the techniques of behavioral pharmacology and molecular biology that are currently used to study neuropharmacology applied to the functioning of the Nervous System.

BIOL 6040 Biogeography

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

Prerequisite: Instructor's Permission Study of the Principles of Organism Distribution.

Examples from the Caribbean area will be used.

BIOL 6100 Systematics Seminar

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

Prerequisite: Instructor's Permission Basic Principles of Systematic Biology

BIOL 6101 Sustainability, Resilience, and Landscapes: Conceptual Bases, Methods, and Practice

Three credits.

(There is no description in the Student Information System.)

BIOL 6117 Ecophysiological Plant

Three credits. Three hours of lecture and three hours of lab per week.

Prerequisite: BIOL 3017, 4560 and/or instructor's permit.

Studies of the interaction between plants and their environment with emphasis on physiological responses to various environmental conditions. Topics include: energy and heat budgets, gas exchange and the functioning of the stomach apparatus, photosynthesis and carbon balance, water balance, temperature stress, and the presence or absence of nutrients in the soil. These topics are discussed with a theoretical evolutionary ecology approach.

BIOL 6120 Phylogenetic Systematics

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

Prerequisite: Professor's permission Broad introduction to the theory and practice of contemporary phylogenetic systematics. Analysis of data sets using theory. Emphasis on computerized techniques and methods, as well as directions of thought.

BIOL 6125 Microbial Ecology

Three hours of lecture and three hours of laboratory time per week.

Prerequisite: Principal's permission.

The study of the factors of microorganisms with their environment. All groups of organisms that identify as microbes are characterized physiologically, energetically, and behaviorally. The importance of microbes in aquatic, terrestrial, and animal environments is studied, with emphasis on population and community dynamics.

BIOL 6126 Population Ecology

Three credits. An hour and a half of lecture, an hour and a half of discussion and three hours of laboratory work per week.

Prerequisite: Teacher's permission.

Study of current methodologies and theories in the analysis of plant and animal populations. Emphasis on quantitative aspects of population biology such as statistical analysis of the spatial dispersal of individuals, mathematical models used to describe growth and dynamics in structured and unstructured populations, and mathematical models used to understand reproductive decisions in plants and animals such as reproductive effort and sexual distribution.

BIOL 6145 Biopreservation

Three credits. Six hours of lectures, field trips, lab and discussions per week.

Prerequisite: BIOL 3017 or 6135 The dynamics of natural ecosystems with emphasis on those of Puerto Rico; their contribution to the country's economy and social development, the importance of the conservation of these ecosystems and the methods used to conserve them.

BIOL 6190 Advanced Ecology

Credits: 3 Three credits. Three hours of lecture a week.

Prerequisite: Principal's permission.

Analysis of two or three controversial topics in areas of active research in modern ecology.

BIOL 6230 Molecular Aspects of Development

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

Prerequisite: BIOL 3010 or BIOL 4545 and BIOL 3015 Study and analysis of contemporary developmental biology trends at the molecular level.

BIOL 6310 Genetic Analysis

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3015 and instructor's permission Study of mutations, genetic structure and function, recombination, meiosis, regulation and chromosomal organization of prokaryotes and eukaryotes and analysis of some aspects of development. Laboratory work includes induction, arrest and characterization of mutations, recombination, tetrad analysis and the use of some genetic techniques for the study of development.

BIOL 6360 Bioinformatics

Three credits. Three hours of lecture a week.

Prerequisite: BIOL 3349, MATE 3026, MATE 3015 The objective of the course is to explore the application of bioinformatics to answer questions about processes in biological systems. The course will provide undergraduate and graduate students of the faculty of natural sciences with an understanding of the tools and principles of bioinformatics for the analysis of biological data and their application in research, both pure and applied, with an emphasis on biomedical research. Emphasis is placed on the area of genomics, including comparative genomics and metagenomics, the course uses open source bioinformatics programs and databases available on the internet for the computational analysis of DNA, RNA and protein; its function, expression, structure, and the application of this computationally derived information to biological problems. A research project will be developed during the academic semester. Each graduate student will lead and coordinate a research project under the tutelage of the professor, supervising a team of undergraduate students.

BIOL 6367 Organic Genetics

Three credits. Three hours of lecture and three hours of laboratory time per week.

Excursions to the countryside.

Prerequisite: BIOL 3015 or equivalent.

Measure of genetic variation. Forces that affect genetic and genotypic frequencies, including non-random mating. Basic population dynamics. Dynamics of dispersal, gene flow and colonization. Speciation, niche, and varying degrees of environmental heterogeneity.

BIOL 6410 Biology of Terrestrial and Fluvial Invertebrates of Puerto Rico.

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 4415 or equivalent Study of the biology and systematics of terrestrial and freshwater invertebrates of Puerto Rico.

BIOL 6500 General Virology

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

Prerequisite: Instructor Consent Integrated study of viruses affecting bacteria, mammals, insects, and plants; its distribution in nature and its functioning through macromolecules. Adsorption and entry into cells, viral replication, damage caused to the host cell by viral growth, tumors and other specific diseases caused by viruses.

BIOL 6501 Fundamentals of Molecular and Cellular Biology I

Three credits. Three hours of lecture a week.

Prerequisites: BIOL 4031 – 4032 or equivalent This introductory course presents fundamental concepts and recent studies in the area of nucleic acid biochemistry. The student becomes familiar with the structure and functioning of nucleic acids, as well as the processes of: DNA replication, recombination, repair and transcription, RNA processing and protein synthesis. The student will also learn about experimental techniques in molecular biology used to study these processes.

BIOL 6502 Fundamentals of Molecular and Cellular Biology II

Three credits. Three hours of lecture a week.

Prerequisites: BIOL 4031 – 4032 or equivalent. BIOL 6031 (formerly BIOL 5546 "Biochemistry of Nucleic Acids") This course is a continuation of the BIOL 6031 course (which will replace the former course 5546 "Biochemistry of Nucleic Acids"). This is an introductory course that will introduce fundamental concepts and recent studies in the area of molecular and cellular biology. In particular, the student will become familiar with the structure and functioning of proteins and membranes, as well as with the transport of proteins in the cell and the properties of membranes. In addition, the processes of cell communication, cell cycle, and the molecular biology of cancer will be discussed. The student will also learn about experienced techniques in the field of molecular biology used to study these processes.

BIOL 6515 Cell Physiology

Credits: 3 Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: Instructor's permission.

Study of biological functioning at the cellular level. Intense laboratory work where the student becomes familiar with the methods and techniques in this field.

BIOL 6537 Current Topics in Cell Biology

Three hours of lecture and discussion per week. Prerequisite: Instructor Consent Analysis of current issues in the cell biology literature.

BIOL 6586 Cell Culture Techniques and Their Applications in Biological Research

Three credits. Five hours of discussions, demonstrations, lectures, and lab per week
Prerequisite: Instructor's permission.

Primary cell culture, subculture of established cell lines, clone establishment, cell hybridization, and karyotype preparation. Comparative study of normal cells and transformed cells and factors that make up the environment in vitro. Asepsis techniques, preparation of culture media and quality control. Application of these techniques to problems in various fields of biology

BIOL 6360 Bioinformatics

Three credits. Three hours of lecture a week.

Prerequisite: BIOL 3349, MATE 3026, MATE 3015 The objective of the course is to explore the application of bioinformatics to answer questions about processes in biological systems. The course will provide undergraduate and graduate students of the faculty of natural sciences with an understanding of the tools and principles of bioinformatics for the analysis of biological data and their application in research, both pure and applied, with an emphasis on biomedical research. Emphasis is placed on the area of genomics, including comparative genomics and metagenomics, the course uses open source bioinformatics programs and databases available on the internet for the computational analysis of DNA, RNA and protein; its function, expression, structure, and the application of this computationally derived information to biological problems. A research project will be developed during the academic semester. Each graduate student will lead and coordinate a research project under the tutelage of the professor, supervising a team of undergraduate students.

BIOL 6745 Biometrics

Three credits. Two hours of lecture and two hours of lab per week. Prerequisite: MATE 3051 or take concurrently and permission of the principal. Elementary probability and probability distributions, estimates of biological parameters, and testing of biological hypotheses. An elementary understanding of frequency analysis (such as the square of chi), regression analysis, and analysis of variance, as used in biological research.

BIOL 6800 Animal Behavior

Three credits. Six hours of lecture, discussion, and lab per week. Comparative study of animal behavior, perception, orientation, instinct, learning, memory motivation, social behavior, organizations, communication, regulatory behavior, and behavioral evolution.

BIOL 6802 Evolution

Three credits. Three hours of lecture a week.

Prerequisites: BIOL 4345 or Teacher's Permission This course is a detailed study of the mechanisms involved in evolutionary processes and the resulting patterns of biodiversity. A central aspect of the course will be to examine the details of the theory of evolution and its respective quantitative models. In addition, we will focus on the impact that evolutionary biology has on contemporary issues of health, agriculture, and conservation.

BIOL 6855 Biology Problems

Three credits.

Prerequisite: Instructor consent.

Three to twelve hours a week of supervised research work in the laboratory or in the field.

BIOL 6896 Continuation of Thesis

Zero credits.

Prerequisite: Have completed all course and research credit requirements for the master's degree.

So that students of the master's program can continue their research. This allows the student to stay in an active state while completing their thesis work.

BIOL 6900 Cellular Ultrastructure and Electron Microscopy.

Three credits. Two hours of lecture and four hours of lab per week. Prerequisite:

Graduate student and professor's permission.

Introduction to the ultrastructure of cells and the techniques required for their study using the transmission electron microscope. The most advanced methods in the use of ultrastructural markers and in image processing will be presented.

BIOL 6910 Supervised Research

Two credits.

Prerequisites: Prior discussion and consent with the teacher who will serve as the student's supervisor.

Hands-on work conducted in a laboratory or research project. The objective is to familiarize the student with different areas of research in particular, it is sought that the student actively participates in the activities of a laboratory in order to identify an area for the future development of their thesis or doctoral dissertation work through 1) participation in weekly laboratory meetings, 2) conducting experiments, 3) data collection and analysis, 4) discussion and presentation of results, 5) bibliographic searches within ongoing research projects, among others.

BIOL 6920 Comprehensive Examination.

Zero credits.

BIOL 6995 Tropical Biology Topics

Two to four credits. One to three hours of lecture and discussion and three to six hours of laboratory or fieldwork. Maximum of six credits. Applicable to the Bachelor of Science or Master of Science.

Prerequisite: Principal's permission.

Origin, development, structure and function of tropical ecosystems and their biotic components. Discussion of the mechanisms that operate in tropical ecosystems or in the components that make them up. Study of the characteristic ecological relationships of tropical environments.

BIOL 6996 Zoology Seminar

From zero to four credits. Three hours of lecture per week and three trips during the semester. It can be repeated up to a maximum of eight credits.

Prerequisite: BIOL 3015 and BIOL 3420 or BIOL 4440 or BIOL 4455 Discussion of different topics in the biology (evolution, physiology, development, anatomy, behavior, and ecology) of a specific group of animals.

BIOL 6999 Special Topics in Modern Biology

Two to four credits. One to three hours of lecture and three to six hours of lab per week.

Prerequisite: Principal's permission. It can be taken repeatedly, up to a maximum of eight credits. Lectures, laboratory or field work; by specialists in the field from the department's faculty or visiting professors.

BIOL 6995 Topics in Tropical Biology

Two to four credits. One to three hours of lecture and discussion and three to six hours of laboratory or fieldwork. Maximum of six credits applicable to the Bachelor of Science or Master of Science degree.

Prerequisite: Principal's permission.

Origin, development, structure and function of tropical ecosystems and their biotic components. Discussion of basic mechanisms operating in tropical ecosystems or in the components that make them up. Study of the characteristic ecological relationships of tropical environments.



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DEGREE: PhD in Philosophy with a specialization in Biology

TEACHERS:

Ackerman, James D., Ph.D, Florida State University, 1981. Professor. Ecology and evolutionary biology; invasive species biology; biogeography; plant systematics; biology of orchids. Ecology and Evolutionary Biology; invasive species biology; biogeography; plant systematics; Biology of orchids. ackerman.upr@gmail.com

August, Joseph, Ph.D. Brandeis University (2008), Associate Professor. Molecular Genetics, Circadian Rhythms, Neuroscience. jose.agosto1@upr.edu

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Burrowes, Patricia A. Ph.D. (1997). University of Kansas. Professor. Factors affecting incidence and prevalence of chytridiomycosis among tropical mountain amphibians. paburrowes@uprrp.edu

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Ghezzi, Alfredo, Ph.D, University of Texas at Austin (2006), Assistant Professor. Behavioral Genetics, Epigenetics, Addiction, Molecular Neuroscience. alfredo.ghezzi@upr.edu

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University of Kansas, 1986. Professor. Systematics, ecology and conservation of West Indian reptiles and amphibians; biology of neotropical frogs of the *Eleutherodactylus* genome; Conservation biology. rjoglar@gmail.com

Lasalde Dominicci, José A ., Ph.D, University of Puerto Rico, 1988. Professor. Structure and function of the acetylcholine receptor; lipid-protein interactions in biological membranes; neuronal acetylcholine receptor and nicotine addiction. jlalalde@gmail.com

Maldonado Vlaar, Carmen S ., Ph.D, Northeastern University, 1994. Associate Professor. Neurobiology of Drug Addiction; behavioral neuropharmacology; Functional neuroanatomy. csmaldonado.upr@gmail.com

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Peterson, Esther, Ph.D: University of Michigan-Ann Arbor (2009). Breast Cancer, Cell Biology, Cancer Biology, Signaling Pathways. esther.peterson@upr.edu

Restrepo, Carla , Ph.D, University of Florida, 1995. Associate Professor. Landscape ecology; macroecology; frugivory and seed dissemination; Conservation biology. crestre@hpcf.upr.edu

Rodríguez-Martínez, José A., Ph.D, University of Puerto Rico, 2009. Assistant Professor. Molecular recognition of nucleic acids; Functional genomics; Transcription factors . jose.rodriguez233@upr.edu

Sabat, Alberto M., Ph.D; State University of New York, 1990. Professor. Population biology and demography in plants and animals. sabat1@upr.edu

Santiago Valentín, Eugenio Ph.D, University of Washington, Seattle, 1999. Professor. Plant Systematics and Evolution, Island Plant Biology, Conservation. eugenio.santiago@upr.edu

Toranzos, Gary A ., Ph.D., University of Arizona, 1985. Professor. Environmental microbiology: behavior of microorganisms produced by genetic engineering, gene transfer in the environment; environmental pollution and biodegradation of xenobiotics. gary.toranzos@upr.edu

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Doctoral Programme

Students will need to meet the following specific requirements:

1. *Application for Admission to Graduate Studies* in electronic format through the *ApplyYourself* platform.
2. Master's degree or its equivalent. Outstanding students with research experience can apply after they have completed their bachelor's degree.
3. Courses Required for Master's Program Admission.
4. If necessary, interview with the Graduate Committee
5. GRE (Graduate Record Examination) scores; taking a biology, biochemistry, and molecular biology thematic exam is recommended, but not required.
6. Application: Doctoral candidates are those students who have passed the oral and written exam and have defended the doctoral proposal.

GRADUATION REQUIREMENTS:

1. Comply with the general requirements for graduation in force at the Río Piedras Campus.
2. Have completed 60 credits with an average of no less than 3.00 points, both at the Río Piedras Campus and at the Medical Sciences Campus, including a minimum of 18 hours of research.
3. All students with no previous experience in university teaching must work as a teaching assistant. A minimum of two semesters is required, which do not have to be consecutive.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses – including the following	42
BIOL 6001 & 6002 Colloquium in Biology I & II	2
BIOL 6999 Special Topics in Modern Biology (Can be repeated up to 12 credits)	4
BIOL 6910 Supervised Research (Can be taken up to three times as long as it is with different investigators)	2
BIOI 8991 Independent Research	3
BIOL 8995 Doctoral Seminar	3

Program Requirements	Credits
Level Courses 6000-8000	
BIOL 8900 Candidacy Examination	0
Dissertation	18
BIOL 8997 Doctoral Dissertation	1-18
BIOL 8998 Continuation of Research for Doctoral Dissertation	0
Total Credits	60

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

BIOL 6001 Colloquium in Biology I

A credit. One hour of lecture per week.

Prerequisites: Graduate students in the Biology Graduate Program.

Seminar program of the Department of Biology for the first semester of the academic year. Weekly seminars on any topic of biology by local, national and international renowned scientists.

BIOL 6002 Colloquium in Biology II

A credit. One hour of lecture per week.

Prerequisites: For graduate students in the Graduate Program in Biology Department

Seminar Program for the second semester of the academic year. Weekly seminars on any topic of biology by local, national and international renowned scientists. This course can be repeated up to a maximum of two credits.

BIOL 6910 Supervised Research

Two credits.

Prerequisites: Prior discussion and consent with the teacher who will serve as the student's supervisor.

Hands-on work conducted in a laboratory or research project. The objective is to familiarize the student with different areas of research in particular, it is sought that the student actively participates in the activities of a laboratory in order to identify an area for the future development of their thesis or doctoral dissertation work through 1) participation in weekly laboratory meetings, 2) conducting experiments, 3) data collection and analysis, 4) discussion and presentation of results, 5) bibliographic searches within ongoing research projects, among others.

BIOL 6999 Special Topics in Modern Biology

Two to four credits. One to three hours of lecture and three to six hours of lab per week.

Prerequisite: Principal's permission. It can be taken repeatedly, up to a maximum of 8 credits.

Lectures, lectures, laboratory or field work; by specialists in the field from the department's faculty or visiting professors.

BIOL 8900 Candidacy Exam.

Zero credits

BIOL 8995 Doctoral Seminar.

One to three credits maximum: one to three hours of lecture per week. Written presentation and oral defense of a research proposal on a topic, which will not be that of the doctoral thesis, accompanied by an exhaustive search of the relevant literature. The work will be supervised by a professor from the program and the oral defense will be in front of a committee of professors with expertise in the area.

BIOL 8997 Doctoral Dissertation.

From one to eighteen credits Prerequisite: Research for doctoral candidates.

Written report of the work carried out in the research area required to obtain the doctoral degree in Biology. This report must be defended in a public presentation and approved by your Thesis Committee.

BIOL 8998 Continuation of Research for Doctoral Dissertation.

Zero credits.

Prerequisite: Continuation of research for doctoral candidates. For doctoral program students who have completed the course and research credit requirements, and remain active students of the Campus while completing their thesis work.

OTHER COURSE DESCRIPTIONS:**BIOL 6006 Symbiosis of the Organelle to the Microsystem**

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

Prerequisites: Have taken two of the following courses: BIOL 3349, BIOL 3410, or BIOL3705 and permission of the teacher New concepts about the dynamics of interactions between microorganisms and their hosts are presented, and recent studies in the area of microbiomes are discussed. The student will update on developments in this new area of study, and acquire seminar presentation and essay writing skills.

BIOL 6007 Reproduction in Plants

Three credits. Three hours of lecture and three hours of lab per week.

Prerequisites: BIOL 3017, 3410 and/or instructor's permit.

An analysis of the ecological, systematic, and evolutionary consequences of the reproduction of flowering plants. Sexual reproduction systems, gametophyte development, pollen-stigma interaction, pollination syndromes, gene flow, reproductive isolation, optimal theory, competition, co-evolution, limitations to fruit and seed production, flowering and seed dispersal strategies, and speciation in angiosperms.

BIOL 6010 Microbiomes

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

New concepts about the dynamics of interactions between microorganisms and their hosts are presented, and recent studies in the area of microbiomes are discussed. The student will be updated on developments in this new area of study and acquire seminar presentation and essay writing skills.

BIOL 6035 Neuropharmacology

Three credits. Three hours of lecture a week.

Prerequisite: BIOL 3101-3102, BIOL 5548 or equivalent.

One of the goals of this introductory course is to expose students to the basic fundamentals of neuropharmacology. During the course of the course, the student will have the opportunity to describe and understand the functioning of the neurochemical transmission of the Nervous System. It is expected that the student will be able to develop the critical analysis of scientific articles referring to one of the topics discussed in the class. In addition to this, the student will learn about the techniques of behavioral pharmacology and molecular biology that are currently used to study neuropharmacology applied to the functioning of the Nervous System.

BIOL 6040 Biogeography

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

Prerequisite: Instructor's Permission Study of the Principles of Organism Distribution.

Examples from the Caribbean area will be used.

BIOL 6100 Systematics Seminar

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

Prerequisite: Instructor's Permission Basic Principles of Systematic Biology

BIOL 6101 Sustainability, Resilience, and Landscapes: Conceptual Bases, Methods, and Practice

Three credits.

(There is no description in the Student Information System.)

BIOL 6117 Ecophysiological Plant

Three credits. Three hours of lecture and three hours of lab per week.

Prerequisite: BIOL 3017, 4560 and/or instructor's permit.

Studies of the interaction between plants and their environment with emphasis on physiological responses to various environmental conditions. Topics include: energy and heat budgets, gas exchange and the functioning of the stomach apparatus, photosynthesis and carbon balance, water balance, temperature stress, and the presence or absence of nutrients in the soil. These topics are discussed with a theoretical evolutionary ecology approach.

BIOL 6120 Phylogenetic Systematics

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

Prerequisite: Professor's permission Broad introduction to the theory and practice of contemporary phylogenetic systematics. Analysis of data sets using theory. Emphasis on computerized techniques and methods, as well as directions of thought.

BIOL 6125 Microbial Ecology

Three hours of lecture and three hours of laboratory time per week.

Prerequisite: Principal's permission.

The study of the factors of microorganisms with their environment. All groups of organisms that identify as microbes are characterized physiologically, energetically, and behaviorally. The importance of microbes in aquatic, terrestrial, and animal environments is studied, with emphasis on population and community dynamics.

BIOL 6126 Population Ecology

Three credits. An hour and a half of lecture, an hour and a half of discussion and three hours of laboratory work per week.

Prerequisite: Teacher's permission.

Study of current methodologies and theories in the analysis of plant and animal populations. Emphasis on quantitative aspects of population biology such as statistical analysis of the spatial dispersal of individuals, mathematical models used to describe growth and dynamics in structured and unstructured populations, and mathematical models used to understand reproductive decisions in plants and animals such as reproductive effort and sexual distribution.

BIOL 6145 Biopreservation

Three credits. Six hours of lectures, field trips, lab and discussions per week.

Prerequisite: BIOL 3017 or 6135 The dynamics of natural ecosystems with emphasis on those of Puerto Rico; their contribution to the country's economy and social development, the importance of the conservation of these ecosystems and the methods used to conserve them.

BIOL 6190 Advanced Ecology

Credits: 3 Three credits. Three hours of lecture a week.

Prerequisite: Principal's permission.

Analysis of two or three controversial topics in areas of active research in modern ecology.

BIOL 6230 Molecular Aspects of Development

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

Prerequisite: BIOL 3010 or BIOL 4545 and BIOL 3015 Study and analysis of contemporary developmental biology trends at the molecular level.

BIOL 6310 Genetic Analysis

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 3015 and instructor's permission Study of mutations, genetic structure and function, recombination, meiosis, regulation and chromosomal organization of prokaryotes and eukaryotes and analysis of some aspects of development. Laboratory work includes induction, arrest and characterization of mutations, recombination, tetrad analysis and the use of some genetic techniques for the study of development.

BIOL 6360 Bioinformatics

Three credits. Three hours of lecture a week.

Prerequisite: BIOL 3349, MATE 3026, MATE 3015 The objective of the course is to explore the application of bioinformatics to answer questions about processes in biological systems. The course will provide undergraduate and graduate students of the faculty of natural sciences with an understanding of the tools and principles of bioinformatics for the analysis of biological data and their application in research, both pure and applied, with an emphasis on biomedical research. Emphasis is placed on the area of genomics, including comparative genomics and metagenomics, the course uses open source bioinformatics programs and databases available on the internet for the computational analysis of DNA, RNA and protein; its function, expression, structure, and the application of this computationally derived information to biological problems. A research project will be developed during the academic semester. Each graduate student will lead and coordinate a research project under the tutelage of the professor, supervising a team of undergraduate students.

BIOL 6367 Organic Genetics

Three credits. Three hours of lecture and three hours of laboratory time per week.

Excursions to the countryside.

Prerequisite: BIOL 3015 or equivalent.

Measure of genetic variation. Forces that affect genetic and genotypic frequencies, including non-random mating. Basic population dynamics. Dynamics of dispersal, gene flow and colonization. Speciation, niche, and varying degrees of environmental heterogeneity.

BIOL 6410 Biology of Terrestrial and Fluvial Invertebrates of Puerto Rico.

Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: BIOL 4415 or equivalent Study of the biology and systematics of terrestrial and freshwater invertebrates of Puerto Rico.

BIOL 6500 General Virology

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

Prerequisite: Instructor Consent Integrated study of viruses affecting bacteria, mammals, insects, and plants; its distribution in nature and its functioning through macromolecules. Adsorption and entry into cells, viral replication, damage caused to the host cell by viral growth, tumors and other specific diseases caused by viruses.

BIOL 6501 Fundamentals of Molecular and Cellular Biology I

Three credits. Three hours of lecture a week.

Prerequisites: BIOL 4031 – 4032 or equivalent This introductory course presents fundamental concepts and recent studies in the area of nucleic acid biochemistry. The student becomes familiar with the structure and functioning of nucleic acids, as well as the processes of: DNA replication, recombination, repair and transcription, RNA processing and protein synthesis. The student will also learn about experimental techniques in molecular biology used to study these processes.

BIOL 6502 Fundamentals of Molecular and Cellular Biology II

Three credits. Three hours of lecture a week.

Prerequisites: BIOL 4031 – 4032 or equivalent. BIOL 6031 (formerly BIOL 5546 "Biochemistry of Nucleic Acids") This course is a continuation of the BIOL 6031 course (which will replace the former course 5546 "Biochemistry of Nucleic Acids"). This is an introductory course that will introduce fundamental concepts and recent studies in the area of molecular and cellular biology. In particular, the student will become familiar with the structure and functioning of proteins and membranes, as well as with the transport of proteins in the cell and the properties of membranes. In addition, the processes of cell communication, cell cycle, and the molecular biology of cancer will be discussed. The student will also learn about experienced techniques in the field of molecular biology used to study these processes.

BIOL 6515 Cell Physiology

Credits: 3 Three credits. Six hours of lecture, discussion, and lab per week. Prerequisite: Instructor's permission.

Study of biological functioning at the cellular level. Intense laboratory work where the student becomes familiar with the methods and techniques in this field.

BIOL 6537 Current Topics in Cell Biology

Three hours of lecture and discussion per week. Prerequisite: Instructor Consent Analysis of current issues in the cell biology literature.

BIOL 6586 Cell Culture Techniques and Their Applications in Biological Research

Three credits. Five hours of discussions, demonstrations, lectures, and lab per week
Prerequisite: Instructor's permission.

Primary cell culture, subculture of established cell lines, clone establishment, cell hybridization, and karyotype preparation. Comparative study of normal cells and transformed cells and factors that make up the environment in vitro. Asepsis techniques, preparation of culture media and quality control. Application of these techniques to problems in various fields of biology

BIOL 6360 Bioinformatics

Three credits. Three hours of lecture a week.

Prerequisite: BIOL 3349, MATE 3026, MATE 3015 The objective of the course is to explore the application of bioinformatics to answer questions about processes in biological systems. The course will provide undergraduate and graduate students of the faculty of natural sciences with an understanding of the tools and principles of bioinformatics for the analysis of biological data and their application in research, both pure and applied, with an emphasis on biomedical research. Emphasis is placed on the area of genomics, including comparative genomics and metagenomics, the course uses open source bioinformatics programs and databases available on the internet for the computational analysis of DNA, RNA and protein; its function, expression, structure, and the application of this computationally derived information to biological problems. A research project will be developed during the academic semester. Each graduate student will lead and coordinate a research project under the tutelage of the professor, supervising a team of undergraduate students.

BIOL 6745 Biometrics

Three credits. Two hours of lecture and two hours of lab per week. Prerequisite: MATE 3051 or take concurrently and permission of the principal. Elementary probability and probability distributions, estimates of biological parameters, and testing of biological hypotheses. An elementary understanding of frequency analysis (such as the square of chi), regression analysis, and analysis of variance, as used in biological research.

BIOL 6800 Animal Behavior

Three credits. Six hours of lecture, discussion, and lab per week. Comparative study of animal behavior, perception, orientation, instinct, learning, memory motivation, social behavior, organizations, communication, regulatory behavior, and behavioral evolution.

BIOL 6802 Evolution

Three credits. Three hours of lecture a week.

Prerequisites: BIOL 4345 or Teacher's Permission This course is a detailed study of the mechanisms involved in evolutionary processes and the resulting patterns of biodiversity. A central aspect of the course will be to examine the details of the theory of evolution and its respective quantitative models. In addition, we will focus on the impact that evolutionary biology has on contemporary issues of health, agriculture, and conservation.

BIOL 6855 Biology Problems

Three credits.

Prerequisite: Instructor consent.

Three to twelve hours a week of supervised research work in the laboratory or in the field.

BIOL 6896 Continuation of Thesis

Zero credits.

Prerequisite: Have completed all course and research credit requirements for the master's degree.

So that students of the master's program can continue their research. This allows the student to stay in an active state while completing their thesis work.

BIOL 6900 Cellular Ultrastructure and Electron Microscopy.

Three credits. Two hours of lecture and four hours of lab per week. Prerequisite:

Graduate student and professor's permission.

Introduction to the ultrastructure of cells and the techniques required for their study using the transmission electron microscope. The most advanced methods in the use of ultrastructural markers and in image processing will be presented.

BIOL 6920 Comprehensive Examination.

Zero credits.

(There is no description in the Student Information System.)

BIOL 6995 Tropical Biology Topics

Two to four credits. One to three hours of lecture and discussion and three to six hours of laboratory or fieldwork. Maximum of six credits. Applicable to the Bachelor of Science or Master of Science.

Prerequisite: Principal's permission.

Origin, development, structure and function of tropical ecosystems and their biotic components. Discussion of the mechanisms that operate in tropical ecosystems or in the components that make them up. Study of the characteristic ecological relationships of tropical environments.

BIOL 6996 Zoology Seminar

From zero to four credits. Three hours of lecture per week and three trips during the semester. It can be repeated up to a maximum of eight credits.

Prerequisite: BIOL 3015 and BIOL 3420 or BIOL 4440 or BIOL 4455 Discussion of different topics in the biology (evolution, physiology, development, anatomy, behavior, and ecology) of a specific group of animals.

BIOL 6999 Special Topics in Modern Biology

Two to four credits. One to three hours of lecture and three to six hours of lab per week.

Prerequisite: Principal's permission. It can be taken repeatedly, up to a maximum of eight credits. Lectures, laboratory or field work; by specialists in the field from the department's faculty or visiting professors.

BIOL 6995 Topics in Tropical Biology

Two to four credits. One to three hours of lecture and discussion and three to six hours of laboratory or fieldwork. Maximum of six credits applicable to the Bachelor of Science or Master of Science degree.

Prerequisite: Principal's permission.

Origin, development, structure and function of tropical ecosystems and their biotic components. Discussion of basic mechanisms operating in tropical ecosystems or in the components that make them up. Study of the characteristic ecological relationships of tropical environments.

BIOL 6997 Research for Thesis

From one to six credits.

Research for master's thesis.

BIOL 6998 Continuation of Research for Thesis

One to two credits.

Continuation of Master's Thesis Research.

BIOL 8210 Development Analysis Seminar

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

Prerequisite: Instructor's Permission.

Discussion of issues related to development procedures.

BIOL 8340 Genetics Seminar.

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

Prerequisite: Instructor's permission.

Discussion of new discoveries and recent publications in the field of genetics.

BIOL 8368 Population Biology Seminar

Three credits. Three hours of lecture a week.

Prerequisite: BIOL 3015 and 3017. Instructor Consent.

Discussion of a selection of topics from the literature on population-based ecological and evolutionary processes.

BIOL 8505 Biotechnology Seminar.

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission. It can be repeated up to a maximum of six credits, provided that the topics are different.

Discussion of a selection of topics from recent literature in a particular area of biotechnology. Emphasis on the biological aspect, molecular techniques and practical applications.

BIOL 8527 Neurophysiology Seminar.

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

Prerequisite: Instructor's permission.

Discussion of the structure and function of excitable cells and the processes of information transmission in the nervous system of animals through lectures and readings of original works.

BIOL 8538 Biochemistry Seminar.

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

Prerequisite: Instructor's permission.

Discussion and practices of the most recent techniques in the field of biochemistry and molecular biology.

BIOL 8990 Research for Thesis

From one to six credits.

Prerequisite: Counselor's permission.

Supervised research to complete a thesis for Master of Science. **Address: 17**



Ave. Universidad Ste. 1701, San Juan, Puerto Rico 00925-2537 Phone: (787) 764-0000, ext. 88242 **Fax:** (787) 772-1459

Email: ambientales.graduados@upr.edu **Portal:**
<https://natsci.uprrp.edu/envsci/>

DEGREE: Master of Science with a major in Environmental Sciences

TEACHERS:

Quiong Gao, Ph.D., Cornell University, 1987, Professor. Ecosystem modeling.

Edwin Hernandez, Ph.D., University of Puerto Rico, Río Piedras Campus, 2000, Research Associate. Marine ecology.

Clifford Louime, Ph.D. Florida Agricultural and Mechanical University, 2005, Associate Professor, Sustainable Biofuel Production.

Elvia Meléndez-Ackerman, Ph.D. University of California-Irvine, 1995, Professor. Evolution and biopreservation

Gabriel Moreno, Ph.D. State University of New York-Stony Brook, 1990, Professor. Sustainable urban systems.

Christopher Nytch. Ph.D. University of Puerto Rico, Río Piedras Campus, 2018. Associate Professor, Forest Ecology, Ecosystem Services, Sustainable Resource Management

Jorge Ortiz, Ph.D., University of Colorado-Boulder, 1998, Professor. Applied Limnology, Water Resources Management.

Omar Pérez-Reyes, Ph.D., Utah State University, 2014, Associate Professor, Ecology, Invertebrate Zoology.

Rafael A. Ríos, Ph.D., University of Texas, Austin, 1975, Professor. Drinking water and wastewater treatment. Solid waste management.

Mei Yu, Ph.D., Chinese Academy of Sciences, 1998, Professor. Spatial Analysis, Modeling.

Jess Zimmerman, Ph.D., University of Utah, 1989, Professor. Plant ecology.

Xiaoming Zou, Ph.D., Colorado State University, 1992, Professor. Soil ecology.

DEPARTMENT OF BIOLOGY

Joseph L. August, Ph.D., Brandeis University, 2008, Genetic control of sleep and circadian rhythms.

Elvira Cuevas, Ph.D., Venezuelan Institute of Scientific Research, 1983, Professor. Ecology

Tugrul Giray, Ph.D. University of Illinois, 1997, Professor. Animal Behavior

Steven E. Massey, Ph.D, University of Kent at Canterbury, 2004. Professor. Bioinformatics; molecular evolution; genome evolution; the origin of life; complexity.

Alberto Sabat, Ph.D. SUNY-Albany, 1989, Professor. Ecology and bioconservation.

DEPARTMENT OF CHEMISTRY

Néstor Carballeira, Ph.D. University of Würzburg, 1983, Professor. Natural Products Chemistry

Liz Díaz Vázquez, Ph.D., University of Puerto Rico, Río Piedras Campus, 2005, Professor. Analytical chemistry

Arthur Tinoco, Ph.D., Yale University, 2007, Associate Professor. Bioinorganic Chemistry. Bioinorganic Chemistry, Proteomics, anticancer research, Metal-based therapeutics.

Brad R. Weiner, Ph.D. University of California, Davis, 1986, Professor. Chemical Physics; Environmental and Physical Chemistry; Chemistry of Materials. Reaction dynamics of gas-phase molecules, photochemistry and photophysics of lasers, kinetics of gas-phase reactive intermediates, non-linear photoprocesses, molecular energy transfer.

DEPARTMENT OF MATHEMATICS

María Eglée Pérez, PhD, Universidad Central de Venezuela, 1994, Professor. Bayesian Statistics; biostatistics.

INTERNATIONAL INSTITUTE OF TROPICAL FORESTRY

Grizelle Gonzalez, Ph.D. University of Colorado, 1999, Scientist. Soil Ecology

William Gould, Ph.D. University of Colorado, 1999, Scientist. Geographic Information Systems

Joseph Wunderle, Ph.D. University of Minnesota, 1980, Scientist. Ornithology.

INSTITUTE OF NEUROBIOLOGY, UPR

Mark W. Miller, Ph.D., University of Connecticut, 1980, Professor. Environmental Neurobiology.

UNIVERSITY OF PUERTO RICO, MAYAQUEZ CAMPUS

José Dumas Rodríguez, Ph.D., University of Puerto Rico, Río Piedras Campus, 1999, Professor. Analytical chemistry

Luis A. Ríos Hernández, Ph.D. University of Oklahoma, 2003 Assistant Professor. Microbiology.

Victor A. Snyder, Ph.D. Cornell University, 1980, Professor. Soils.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

To be considered for graduate admission, students must meet the following requirements:

1. A Bachelor of Science degree (or equivalent) with a concentration in Environmental Science, Biology, Computer Science, General Science, Physics, Mathematics, Chemistry, or Engineering from an accredited
2. Students with a bachelor's degree from an accredited university, but without a concentration in any of the aforementioned disciplines, can apply for admission to the graduate program, through the ApplyYourself platform, once they have passed the following requirements with a minimum academic index of 3.00: one year of General Biology, one year of General Chemistry, Calculus I, and an Introduction to Environmental Science course. However, satisfactory completion of these courses does not guarantee admission to the program.
3. A minimum overall GPA of 3.00 (on a 4.00 scale) and a minimum science GPA of 3.00 at the undergraduate level.
4. Submit an official copy of your most recent transcript.
5. Submit three letters of recommendation from professors with whom you have taken science courses.
6. Have adequate knowledge of English and Spanish, both written and oral.
7. Submit the TOEFL results (only for foreign students).
8. Attend an interview, if required by the Admissions Committee.

GRADUATION REQUIREMENTS:

Approval of 38 total graduate credits with a minimum GPA of 3.00 must be fulfilled as follows: 18 credits in core courses, 6 credits in emphasis courses, 2 credits in graduate seminars, and 6 credits in elective courses. Approval of 6 research credits and the successful presentation and defense of a research-based thesis.

PROGRAM OF STUDY:

Program Requirements	Credits
Required Courses	18
CIAM 6115 The Terrestrial Environment	3
CIAM 6116 Tropical Ecosystems *	3
CIAM 6117 The Coastal Environment	3
CIAM 6118 The Urban Environment	3
CIAM 6235 Remote Sensing I*	3
CIAM 6256 Methods for the statistical analysis of environmental systems	3
Areas of emphasis. (At least two of the courses in the table below must be passed)	6
Graduate Seminars	2
CIAM 6901 Graduate Seminar (Can be repeated for a maximum of two credits)	1
Graduate Research	6
CIAM 6999 Master's Graduate Research*	6
CIAM 6896 Master's Thesis, Continuation *	0
Free Electives Students with prior authorization from the thesis committee may also take courses offered by other graduate programs.	6
CIAM 6910 Supervised Graduate Research (Rotation)	1
Total Credits	38

Program Courses	
CIAM 8225 Methods of Spatial Analysis	3
CIAM 8226 Geospatial Techniques in Environmental Sciences	3
CIAM 8236 Remote Sensing II	3
CIAM 8257 Techniques for the construction of environmental models	3
CIAM 8405 Seminar on Sustainable Environmental Management of Islands and Tropical Regions.	2
CIAM 8425 Environmental Geology	3

Program Courses	
CIAM 8435 Environmental Hydrology	3
CIAM 8115 Human Dimensions of Environmental Change	2
CIAM 8116 Environmental Policy and Ethics	2
CIAM 8117 Urban Environment, Design and Expansion	2
CIAM 8118 Ecological Informatics and Socio-Ecological Models.	2
CIAM 8119 Ecosystem Services and the Ecological Economy.	2
CIAM 8120 Communication on the Environment	2
CIAM 8205 Seminar on Environmental Analysis Topics	2
CIAM 8206 Seminars on Topics of Environmental Spatial Analysis	2
CIAM8775 Waste Management and Disposal	3
CIAM8785 Power Generation	3
CIAM8990 Special Topics in Environmental Science	3

Elective courses marked with * may be substituted for elective courses approved by the Program.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

CIAM6115 the terrestrial environment

Three credits. Three hours of lecture a week.

Study of the geological, geomorphological, hydrological and climatological processes of mountainous and alluvial regions and characteristics of islands and tropical regions. It focuses on the study of the impact of human activities, the environmental problems resulting from these actions and the strategies to promote their sustainable development. Topics are discussed and analyzed within the context of general systems theory using the watershed as the unit of study.

CIAM6116 Tropical Ecosystems

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the environmental science graduate program or permission from the professor-of-professor.

Study and spatial distribution of the characteristic ecosystems of islands and tropical regions. The interaction between the different biotic and abiotic components of these ecosystems is systematically examined, as well as the impact of natural processes and human activities on them.

CIAM6117 The Coastal Environment

Three credits. Three hours of lecture a week.

Study of the ecology and geological, geomorphological, hydrological and climatological processes of the coastal and marine region, including the maritime-terrestrial zone, the tidal zone, the littoral zone, estuaries, reefs and others. It focuses on the study of the impact of human interactions on the environment, the environmental problems resulting from these interactions, and strategies to promote sustainable development in these regions.

CIAM6118 Urban Environment

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the environmental science graduate program or professor's permit.

Study of the city from a systems perspective. Its structure and function, city climatology and urban ecology are examined; the environmental impact of transportation systems, power generation, water distribution, waste water and solid waste disposal, and the impact of human activities on the quality of the environment. Issues of urban planning, green areas, natural hazards, urban noise, distribution of pockets of poverty, and environmental justice aspects are considered. Strategies to improve the quality of life in cities and promote sustainable development are discussed. It examines the pollutants characteristic of urban areas, and their transport and diffusion mechanisms.

CIAM 6235 Remote Sensing I

Three credits.

Theoretical and practical study of methodologies for land cover and land use analysis using satellite images. It examines the laws of physics 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 of islands and tropical regions.

CIAM 6256 Statistical Analysis Methods for Environmental Systems

Three credits.

Prerequisite: Admission to the environmental science graduate program.

Study of statistical methods for the analysis of environmental data involving multiple variables. Multiple linear regression, principal component analysis, cluster analysis, multidimensional surface analysis, canonical analysis, discriminant analysis, and others are studied. The variables are analyzed in order to quantitatively understand the behavior of environmental processes. Different statistics programs for computers are discussed and applied, and scientific research papers where they have been used are discussed.

CIAM 6901 Graduate Seminar in Environmental Sciences I

A credit. One hour of seminar per week.

Lecture and discussion on special topics in the area of environmental sciences, usually by guest lecturers or based on works from the recent literature in the area. The course can be repeated up to a maximum of 2 credits.

CIAM 6910 Graduate Research

One to three credits. One to three hours of research a week.

Prerequisite: Authorization from the Coordinator of the Environmental Science Graduate Program Research in Environmental Sciences supervised by a faculty member in his or her laboratory, to introduce new graduate students to the concepts, procedures, and techniques employed to conduct their research in a specific area. The course may be taken up to two times for a maximum of 6 credits by a student in the master's program and up to four times for a maximum of 9 credits by a doctoral student.

CIAM 6999 Graduate Research for the Master's Degree in Environmental Sciences

One to three credits. 5-15 hours of research.

Prerequisite: Authorization from the Director or Coordinator of the Graduate Program in Environmental Sciences.

Thesis research leading to the Master's degree in Environmental Sciences. (Up to a maximum of 6 credits).

CIAM 6896 Continuation of Master's Thesis

Zero credits.

Prerequisite: CIAM 6999 and Authorization from the Director or Coordinator of the Graduate Program in Environmental Sciences.

Continuation of thesis research leading to the master's degree in Environmental Sciences

CIAM 6990 Special Topics in Environmental Sciences

One to three credits. One to three hours of lecture per week.

Prerequisite: Admission to the Graduate Program in Environmental Sciences or permission from the professor.

Detailed study of one or more specific topics in the area of environmental sciences, usually by visiting professors or specialists in some of the areas of environmental science. The course is designed to offer a practical and theoretical experience on specific and current topics in environmental sciences, the topics vary each year, the format of the course encourages invited experts in the selected topic to dedicate a week or more to their lectures and empirical experiences. (Maximum of 12 credits)

OTHER COURSE DESCRIPTIONS:

CIAM8115 Human Dimensions of Environmental Change

Two credits. Two hours of lecture per week.

Prerequisite: Authorization from the director or coordinator of the graduate program in environmental sciences. Relationship between humans and the environment with emphasis on the social, political, economic and cultural factors of natural resource conservation and environmental degradation. Varied topics such as the social construction of nature, environmental justice, and environmental movements will be explored. presents a broad and panoramic perspective to contextualize decision-making processes (at the state, community organizational, and individual levels) regarding natural resource management, promotes the application of concepts learned through collaborative projects with constituents on contemporary environmental issues in Puerto Rico.

CIAM8116 Environmental Policy and Ethics

Two credits. Two hours of lecture per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

This course focuses on how environmental policy evolves and on the ethics of the positions of the various stakeholders, especially in relation to the Puerto Rican environmental issues that are selected. Students will explore "environmental capacity", defined as the possession of adequate resources necessary for the execution of activities related to environmental protection, as well as the willingness to use those resources. Environmental issues are related to questions about the management of the commons, which means that conflicting values are involved. Therefore, students will be required to apply an ethical perspective to environmental issues, health promotion issues, and policy solutions. Students will apply the principles of environmental policy to the projects of selected groups.

CIAM8117 Urban Environment, Design and Expansion

Two credits. Two hours of lecture per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

Students will study the environmental characteristics of cities and suburbs, the impacts of urban development on the environment, especially in the tropics, and the principles of improved design for the sustainability of urban areas and suburban, especially as it relates to environmental issues in Puerto Rico, the U.S. and elsewhere. Economic agents, the environment and society have the capacity to create and transform the urban space where they are located. The long-term sustainability of the urban development process is based on the ability to reconcile the interests of growth (economic and urban), conservation and social equity. This course will analyze "urban space" as a scenario where economic agents, the environment and society interact. In turn, these elements have the ability to create and transform the urban space where they are located.

CIAM8118 Ecological Informatics and Socio-Ecological Models

Two credits. Two hours of lecture per week.

Prerequisite: authorization from the director or coordinator of the Graduate Program in Environmental Sciences, provided that the student has the appropriate mathematical background.

Computer science and modeling have become even more important tools for environmental scientists. Students will be taught the basic components of environmental informatics and socio-ecological models. Topics to be covered include types and uses of models; distinguish between models and hypotheses; data structure; metadata and data interpretation; information theory; hypothesis formation and testing; modeling methodologies and when to use them; web-based database of relationships and data services; Examples of complex systems with parameterization and validation. Students will apply the techniques for natural and social systems components in the selected group project.

CIAM8119 Ecosystem Services and the Ecological Economy

Two credits. Two hours of lecture per week.

Prerequisites: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

According to the Millennium Ecosystem Assessment, the course will focus on the support, provisioning and regulation of ecosystem services as the link between the economies of natural and human systems and the increasing pressures faced by these systems. The fair allocation and sustainability of these services will be considered through different economic points of view, including regulated and open markets, the tragedy of the commons, and the green economy. Conflicts between growth and sustainability will be examined, as well as possible solutions, such as valuations that include the true ecological and social costs of resource exploitation and incentive structures. Students will apply the principles of ecological economics to the group projects they select.

CIAM8120 Communication on the Environment

Two credits. Two hours of lecture per week.

Prerequisites: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

To engage diverse community members in environmental science and policymaking, students will develop formal debate and argumentation skills. Special emphasis will be given to the ethical dimensions of natural resource allocation and sustainability. The course will analyze how the media presents environmental sciences and the feedback from that presentation on national and international initiatives. Through selected topics, students will explore the ethical underpinnings of different viewpoints with an emphasis on clarity and accuracy in communicating science that supports diverse members of the community.

CIAM8205 Seminar on Environmental Analysis Topics

Two credits. One hour of seminar and one hour of lecture per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

Advanced seminar aimed at the analysis and discussion of the literature and recent developments in the area of spatial analysis of the environment with emphasis on islands and tropical regions.

CIAM 8206 Seminar on Topics of Environmental Spatial Analysis

Two credits.

Prerequisite: Authorization from the Director or Coordinator of the Environmental Sciences Graduate Program.

Advanced seminar aimed at the analysis and discussion of the literature and recent developments in the area of spatial analysis of the environment, especially with regard to islands and tropical regions.

CIAM 8225 Methods for Environmental Spatial Analysis

Three credits.

Prerequisite: CIAM 5235 Advanced Methods in Geospatial Analysis. Issues of scaling, spatial autocorrelation, spatial interpolation, spatial point patterning, patch analysis, hydrologic analysis, and image analysis will be discussed, along with their uses in environmental science. The issues will be addressed in conferences and via analysis of key articles. Students will develop and present the detailed projects, applying techniques to a chosen environmental problem.

CIAM 8226 Geospatial Techniques in Environmental Sciences

A credit. Three hours of lab time a week.

Prerequisite: CINA4995 Laboratory course in which applications of state-of-the-art geospatial techniques will be discussed and realized. Topics will cover applications in community ensembles, hydrological dynamics, landslides, epidemics, land-use change, and global carbon dynamics. It will include oral presentations of frontier articles, workflows for solving environmental problems, and written briefs on the topics.

CIAM 8236 Remote Sensing II

Three credits.

Requirements: CIAM 6235 Practical study of advanced methodologies for the analysis of satellite images and the theory behind these techniques. The use and application of programs such as Imagine, ENVI, and Idrisi for the study and analysis of environmental processes and problems of islands and tropical regions is emphasized because of their ability to analyze images with shadows caused by clouds and mountains. At the end of the course the student will have completed a research paper that could be presented at a regional scientific conference.

CIAM 8257 Environmental Model Building Techniques

Three credits.

Prerequisite: Admission to the Graduate Program in Environmental Sciences or permission from the professor.

The course is designed to train students in the intermediate level of environmental resource systems modeling by incorporating system dynamics. Students will work with models such as population-resources, lake conservation, automobile air pollution, nitrogen cycling, and more, using a program that handles most mathematical computations (such as STELLA or its equivalent) so that students can concentrate on developing the model structure and obtaining or identifying key parameters in real-world systems.

CIAM8405 Seminar on Sustainable Environmental Management of Islands and Tropical Regions

Two credits. Two hours of seminar per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

Advanced seminar aimed at the analysis and discussion of the literature and recent developments in the area of sustainable environmental management of islands and tropical regions.

CIAM8425 Environmental Geology

Three credits. Three hours of lecture a week.

Prerequisite: CIAM 6115, 6117, 6118 Study of the interaction between human activities and geological processes. Problems of slope stability, erosion, transport and sedimentation processes, and the measurement of the physicochemical properties of geological materials are analyzed. It examines the chemical balances and the mechanisms of transport and fate of pollutants characteristic of the soil matrix, hydrogeology, diffusion and transport of pollutants through soils and aquifers, sampling techniques, strategies for the rehabilitation of contaminated sites, geological hazards induced by natural phenomena and geological problems are studied in the context of the effect of human infrastructure development in mountainous regions. arctic, floodplains and coasts.

CIAM 8435 Environmental Hydrology

Three credits. Three hours of lecture a week.

Prerequisites: CIAM 6115, 6115, 6118.

Study of hydrological processes and water pollution. The chemical equilibria and the mechanisms of transport and fate of pollutants characteristic of the water matrix are examined. It discusses the measurement of water budgets, the determination of physical and chemical parameters for natural water, the techniques of sampling and analysis of pollutants, the processes of diffusion and transport of pollutants in surface and groundwater, the impact of various human activities on hydrological balances and water quality. as well as strategies for the prevention, remediation and mitigation of surface and groundwater contamination.

CIAM8775 Waste Management and Disposal

Three credits. Three hours of lecture a week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences. CIAM6115, 6117, 6118.

Analysis of the problem of disposal of waste of all kinds in islands and tropical regions, focusing on Puerto Rico and study of the different alternatives and technologies available. Strategies for reduction, reuse, recycling, disposal in local and regional landfills, gasification plants, incineration, and others are examined. The environmental impact of the different alternatives to the problem of waste management in islands and tropical regions is discussed, focusing on solutions consistent with sustainable development.

CIAM8785 Power Generation

Three credits. Three hours of lecture a week.

Prerequisite: CIAM6115, 6117, 6118.

Study of the fundamental concepts of energy, the laws of thermodynamics and their practical applications. Analysis of energy demand and alternatives for its generation within the context of sustainable development. The environmental impact of the different generation alternatives and the measures that can be used to minimize this impact are discussed.

CIAM 8901- 8902 Graduate Seminar in Environmental Sciences I and II

A credit.

Lecture and discussion on special topics in the area of environmental sciences, usually by guest lecturers or based on works from the recent literature in the area.

CIAM 8990 Special Topics in Environmental Sciences

One to three credits. One hour of lecture and two hours of research per week. Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

Detailed study of one or more specific topics in the area of environmental sciences, usually by visiting professors or specialists in one of the areas of environmental sciences. The course is designed to offer practical and theoretical experience on specific topics of current interest in environmental science. The themes vary each year. The format of the course encourages invited experts in the selected topic to dedicate a week or more to their lectures and empirical experiences. (Up to a maximum of 18 credits). This course is full academic load.



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<https://natsci.uprrp.edu/envsci/>

DEGREE: PhD in Science with a specialization in Environmental Sciences

TEACHERS:

Quiong Gao, Ph.D., Cornell University, 1987, Professor. Ecosystem modeling.

Edwin Hernandez, Ph.D., University of Puerto Rico, Río Piedras Campus, 2000, Research Associate. Marine ecology.

Clifford Louime, Ph.D. Florida Agricultural and Mechanical University, 2005, Associate Professor, Sustainable Biofuel Production.

Elvia Meléndez-Ackerman, Ph.D. University of California-Irvine, 1995, Professor. Evolution and biopreservation

Gabriel Moreno, Ph.D. State University of New York-Stony Brook, 1990, Professor. Sustainable urban systems.

Christopher Nytch. Ph.D. University of Puerto Rico, Río Piedras Campus, 2018. Associate Professor, Forest Ecology, Ecosystem Services, Sustainable Resource Management

Jorge Ortiz, Ph.D., University of Colorado-Boulder, 1998, Professor. Applied Limnology, Water Resources Management.

Omar Pérez-Reyes, Ph.D., Utah State University, 2014, Associate Professor, Ecology, Invertebrate Zoology.

Rafael A. Ríos, Ph.D., University of Texas, Austin, 1975, Professor. Drinking water and wastewater treatment. Solid waste management.

Mei Yu, Ph.D., Chinese Academy of Sciences, 1998, Professor. Spatial Analysis, Modeling.

Jess Zimmerman, Ph.D., University of Utah, 1989, Professor. Plant ecology.

Xiaoming Zou, Ph.D., Colorado State University, 1992, Professor. Soil ecology.

DEPARTMENT OF BIOLOGY

Joseph L. August, Ph.D., Brandeis University, 2008, Genetic control of sleep and circadian rhythms.

Elvira Cuevas, Ph.D., Venezuelan Institute of Scientific Research, 1983, Professor. Ecology

Tugrul Giray, Ph.D. University of Illinois, 1997, Professor. Animal Behavior

Steven E. Massey, Ph.D, University of Kent at Canterbury, 2004. Professor. Bioinformatics; molecular evolution; genome evolution; the origin of life; complexity.

Alberto Sabat, Ph.D. SUNY-Albany, 1989, Professor. Ecology and bioconservation.

DEPARTMENT OF CHEMISTRY

Néstor Carballeira, Ph.D. University of Würzburg, 1983, Professor. Natural Products Chemistry

Liz Díaz Vázquez, Ph.D., University of Puerto Rico, Río Piedras Campus, 2005, Professor. Analytical chemistry

Arthur Tinoco, Ph.D., Yale University, 2007, Associate Professor. Bioinorganic Chemistry. Bioinorganic Chemistry, Proteomics, anticancer research, Metal-based therapeutics.

Brad R. Weiner, Ph.D. University of California, Davis, 1986, Professor. Chemical Physics; Environmental and Physical Chemistry; Chemistry of Materials. Reaction dynamics of gas-phase molecules, photochemistry and photophysics of lasers, kinetics of gas-phase reactive intermediates, non-linear photoprocesses, molecular energy transfer.

DEPARTMENT OF MATHEMATICS

María Eglée Pérez, PhD, Universidad Central de Venezuela, 1994, Professor. Bayesian Statistics; biostatistics.

INTERNATIONAL INSTITUTE OF TROPICAL FORESTRY

Grizelle Gonzalez, Ph.D. University of Colorado, 1999, Scientist. Soil Ecology

William Gould, Ph.D. University of Colorado, 1999, Scientist. Geographic Information Systems

Joseph Wunderle, Ph.D. University of Minnesota, 1980, Scientist. Ornithology.

INSTITUTE OF NEUROBIOLOGY, UPR

Mark W. Miller, Ph.D., University of Connecticut, 1980, Professor. Environmental Neurobiology.

UNIVERSITY OF PUERTO RICO, MAYAQUEZ CAMPUS

José Dumas Rodríguez, Ph.D., University of Puerto Rico, Río Piedras Campus, 1999, Professor. Analytical chemistry

Luis A. Ríos Hernández, Ph.D. University of Oklahoma, 2003 Assistant Professor. Microbiology.

Victor A. Snyder, Ph.D. Cornell University, 1980, Professor. Soils.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Doctoral Programme

1. A Bachelor of Science degree (or equivalent) or master's degree with a concentration in Environmental Science, Biology, Computer Science, General Science, Physics, Mathematics, Chemistry, or Engineering from an accredited university. Students with a bachelor's/master's degree from an accredited university, but without a concentration in any of the aforementioned disciplines, can apply for admission to the graduate program, through the ApplyYourself platform, once they have passed the following requirements with a minimum academic index of 3.00: one year of General Biology, one year of General Chemistry, Calculus I, and an Introduction to Environmental Science course. However, satisfactory completion of these courses does not guarantee admission to the program.
2. A minimum overall GPA of 3.00 (on a 4.00 scale) and a minimum science GPA of 3.00 at the undergraduate level.
3. Submit an official copy of your most recent transcript.
4. Submit three letters of recommendation from professors with whom you have taken science courses.
5. Have adequate knowledge of English and Spanish, both written and oral.
6. Submit the TOEFL results (only for foreign students).
7. Attend an interview, if required by the Admissions Committee.

GRADUATION REQUIREMENTS:

- Approval of 60 credits in total with a minimum academic index of 3.00 must be fulfilled as follows: 18 credits of core courses, 9 credits in emphasis courses, 6 credits in graduate seminars, 9 credits in elective courses and 18 credits in graduate research.
- Satisfactory Completion of Degree Candidacy Requirements
- Approval of 18 research credits and successful presentation and defense of a research-based thesis.

PROGRAM OF STUDY:

Program Requirements	Credits
Required Courses	18
CIAM 6115 The Terrestrial Environment	3
CIAM 6116 Tropical Ecosystems *	3
CIAM 6117 The Coastal Environment	3
CIAM 6118 The Urban Environment	3
CIAM 6235 Remote Sensing I*	3
CIAM 6256 Methods for the statistical analysis of environmental systems	3
Graduate Research	18
CIAM 8999 Research Graduate PhD	15
CIAM 8896 Continuation of Doctoral Thesis	0
Emphasis Courses	9
Graduate Seminars	6
Free Electives	9
Students with prior authorization from the thesis committee may also take courses offered by other graduate programs.	
CIAM 6910 Supervised Graduate Research (Rotation)	3
Total Credits	60

Program Courses	
CIAM 8225 Methods of Spatial Analysis	3
CIAM 8226 Geospatial Techniques in Environmental Sciences	3
CIAM 8236 Remote Sensing II	3
CIAM 8257 Techniques for the construction of environmental models	3
CIAM 8425 Environmental Geology	3
CIAM 8435 Environmental Hydrology	3
CIAM 8115 Human Dimensions of Environmental Change	2
CIAM 8116 Environmental Policy and Ethics	2
CIAM 8117 Urban Environment, Design and Expansion	2

Program Courses	
CIAM 8118 Ecological Informatics and Socio-Ecological Models.	2
CIAM 8119 Ecosystem Services and the Ecological Economy.	2
CIAM 8120 Communication on the Environment	2
CIAM 8205 Seminar on Environmental Analysis Topics	2
CIAM 8206 Seminars on Topics of Environmental Spatial Analysis	2
CIAM 8775 Waste Management and Disposal	3
CIAM 8785 Power Generation	3
CIAM 8990 Special Topics in Environmental Sciences	3
Advanced Graduate Seminars (2 requirements and 4 from the advanced seminar list)	6
CIAM 8901-02 Graduate Seminar (two semesters) Requirement	2
CIAM 8205 Seminar on the Sustainable Management of Tropical Islands I *	2
CIAM 8206 Seminar on Environmental Modeling and Spatial Analysis I*	2
CIAM 8405 Seminar on Sustainable Environmental Management of Islands and Tropical Regions I.	2
CIAM 8406 Seminar on Sustainable Environmental Management of Islands and Tropical Regions II.	2

*Elective courses marked with * may be substituted by elective courses approved by the Program.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

CIAM 6115 The Terrestrial Environment

Three credits. Three hours of lecture a week.

Study of the geological, geomorphological, hydrological and climatological processes of mountainous and alluvial regions and characteristics of islands and tropical regions. It focuses on the study of the impact of human activities, the environmental problems resulting from these actions and the strategies to promote their sustainable development. Topics are discussed and analyzed within the context of general systems theory using the watershed as the unit of study.

CIAM 6116 Tropical Ecosystems

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the environmental science graduate program or permission from the professor-of-professor.

Study and spatial distribution of the characteristic ecosystems of islands and tropical regions. The interaction between the different biotic and abiotic components of these ecosystems is systematically examined, as well as the impact of natural processes and human activities on them.

CIAM 6117 The Coastal Environment

Three credits. Three hours of lecture a week.

Study of the ecology and geological, geomorphological, hydrological and climatological processes of the coastal and marine region, including the maritime-terrestrial zone, the tidal zone, the littoral zone, estuaries, reefs and others. It focuses on the study of the impact of human interactions on the environment, the environmental problems resulting from these interactions, and strategies to promote sustainable development in these regions

CIAM 6118 Urban Environment

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the environmental science graduate program or professor's permit.

Study of the city from a systems perspective. Its structure and function, city climatology and urban ecology are examined; the environmental impact of transportation systems, power generation, water distribution, waste water and solid waste disposal, and the impact of human activities on the quality of the environment. Issues of urban planning, green areas, natural hazards, urban noise, distribution of pockets of poverty, and environmental justice aspects are considered. Strategies to improve the quality of life in cities and promote sustainable development are discussed. It examines the pollutants characteristic of urban areas, and their transport and diffusion mechanisms.

CIAM 6235 Remote Sensing I

Three credits.

Theoretical and practical study of methodologies for land cover and land use analysis using satellite images. It examines the laws of physics 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 of islands and tropical regions.

CIAM 6256 Statistical Analysis Methods for Environmental Systems

Three credits.

Prerequisite: Admission to the environmental science graduate program.

Study of statistical methods for the analysis of environmental data involving multiple variables. Multiple linear regression, principal component analysis, cluster analysis, multidimensional surface analysis, canonical analysis, discriminant analysis, and others are studied. The variables are analyzed in order to quantitatively understand the behavior of environmental processes. Different statistics programs for computers are discussed and applied, and scientific research papers where they have been used are discussed.

CIAM 6910 Graduate Research

One to three credits. One to three hours of research a week.

Prerequisite: Authorization from the Coordinator of the Environmental Science Graduate Program Research in Environmental Sciences supervised by a faculty member in his or her laboratory, to introduce new graduate students to the concepts, procedures, and techniques employed to conduct their research in a specific area. The course may be taken up to two times for a maximum of 6 credits by a student in the master's program and up to four times for a maximum of 9 credits by a doctoral student.

CIAM 8999 Graduate Research for the Doctoral Dissertation in Environmental Sciences

One to six credits. 5 to 30 hours of research.

Prerequisite: Authorization from the director or coordinator of the graduate program in environmental sciences.

Dissertation research leading to the degree of Doctor of Philosophy in Environmental Sciences. (Up to a maximum of 18 credits)

CIAM 8896 Continuation of Doctoral Thesis

Zero credits.

Requirements: Have completed the research courses that are required for the master's degree in Environmental Science.

In order to enroll in this course, the student must have passed all the academic requirements and research credits to obtain the Master's degree in Environmental Sciences, and only the phase of completing, presenting and defending the master's thesis remains. A student enrolled in this course will be considered a full-time student of the Master's Program in Environmental Sciences and the Río Piedras Campus of the University of Puerto Rico.

OTHER COURSE DESCRIPTIONS:**CIAM 6990 Special Topics in Environmental Sciences**

One to three credits. One to three hours of lecture per week.

Prerequisite: Admission to the Graduate Program in Environmental Sciences or permission from the professor.

Detailed study of one or more specific topics in the area of environmental sciences, usually by visiting professors or specialists in some of the areas of environmental science. The course is designed to offer a practical and theoretical experience on specific and current topics in environmental sciences, the topics vary each year, the format of the course encourages invited experts in the selected topic to dedicate a week or more to their lectures and empirical experiences. (Maximum of 12 credits).

CIAM 8115 Human Dimensions of Environmental Change

Two credits. Two hours of lecture per week.

Prerequisite: Authorization from the director or coordinator of the graduate program in environmental sciences.

Relationship between humans and the environment with emphasis on the social, political, economic and cultural factors of natural resource conservation and environmental degradation. Varied topics such as the social construction of nature, environmental justice, and environmental movements will be explored. presents a broad and panoramic perspective to contextualize decision-making processes (at the state, community organizational, and individual levels) regarding natural resource management, promotes the application of concepts learned through collaborative projects with constituents on contemporary environmental issues in Puerto Rico.

CIAM 8116 Environmental Policy and Ethics

Two credits. Two hours of lecture per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

This course focuses on how environmental policy evolves and on the ethics of the positions of the various stakeholders, especially in relation to the Puerto Rican environmental issues that are selected. Students will explore "environmental capacity", defined as the possession of adequate resources necessary for the execution of activities related to environmental protection, as well as the willingness to use those resources. Environmental issues are related to questions about the management of the commons, which means that conflicting values are involved. Therefore, students will be required to apply an ethical perspective to environmental issues, health promotion issues, and policy solutions. Students will apply the principles of environmental policy to the projects of selected groups.

CIAM 8117 Urban Environment, Design and Expansion

Two credits. Two hours of lecture per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

Students will study the environmental characteristics of cities and suburbs, the impacts of urban development on the environment, especially in the tropics, and improved design principles for the sustainability of urban areas

and suburban, especially as it relates to environmental issues in Puerto Rico, the U.S. and elsewhere. Economic agents, the environment and society have the capacity to create and transform the urban space where they are located. The long-term sustainability of the urban development process is based on the ability to reconcile the interests of growth (economic and urban), conservation

and social equity. This course will analyze "urban space" as a scenario where economic agents, the environment and society interact. In turn, these elements have the ability to create and transform the urban space where they are located.

CIAM 8118 Ecological Informatics and Socio-Ecological Models

Two credits. Two hours of lecture per week.

Prerequisite: authorization from the director or coordinator of the Graduate Program in Environmental Sciences, provided that the student has the appropriate mathematical background.

Computer science and modeling have become even more important tools for environmental scientists. Students will be taught the basic components of environmental informatics and socio-ecological models. Topics to be covered include types and uses of models; distinguish between models and hypotheses; data structure; metadata and data interpretation; information theory; hypothesis formation and testing; modeling methodologies and when to use them; web-based database of relationships and data services; Examples of complex systems with parameterization and validation. Students will apply the techniques for natural and social systems components in the selected group project.

CIAM 8119 Ecosystem Services and the Ecological Economy

Two credits. Two hours of lecture per week.

Prerequisites: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

According to the Millennium Ecosystem Assessment, the course will focus on the support, provisioning and regulation of ecosystem services as the link between the economies of natural and human systems and the increasing pressures faced by these systems. The fair allocation and sustainability of these services will be considered through different economic points of view, including regulated and open markets, the tragedy of the commons, and the green economy. Conflicts between growth and sustainability will be examined, as well as possible solutions, such as valuations that include the true ecological and social costs of resource exploitation and incentive structures. Students will apply the principles of ecological economics to the group projects they select.

CIAM8120 Communication on the Environment

Two credits. Two hours of lecture per week.

Prerequisites: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

To engage diverse community members in environmental science and policymaking, students will develop formal debate and argumentation skills. Special emphasis will be given to the ethical dimensions of natural resource allocation and sustainability. The course will analyze how the media presents environmental sciences and the feedback from that presentation on national and international initiatives. Through selected topics, students will explore the ethical underpinnings of different viewpoints with an emphasis on clarity and accuracy in communicating science that supports diverse members of the community.

CIAM8205 Seminar on Environmental Analysis Topics

Two credits. One hour of seminar and one hour of lecture per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

Advanced seminar aimed at the analysis and discussion of the literature and recent developments in the area of spatial analysis of the environment with emphasis on islands and tropical regions.

CIAM 8206 Seminar on Topics of Environmental Spatial Analysis

Two credits.

Prerequisite: Authorization from the Director or Coordinator of the Environmental Sciences Graduate Program.

Advanced seminar aimed at the analysis and discussion of the literature and recent developments in the area of spatial analysis of the environment, especially with regard to islands and tropical regions.

CIAM 8225 Methods for Environmental Spatial Analysis

Three credits.

Prerequisite: CIAM 5235 Advanced Methods in Geospatial Analysis. Issues of scaling, spatial autocorrelation, spatial interpolation, spatial point patterning, patch analysis, hydrologic analysis, and image analysis will be discussed, along with their uses in environmental science. The issues will be addressed in conferences and via analysis of key articles. Students will develop and present the detailed projects, applying techniques to a chosen environmental problem.

CIAM 8226 Geospatial Techniques in Environmental Sciences

A credit. Three hours of lab time a week.

Prerequisite: CINA4995 Laboratory course in which applications of state-of-the-art geospatial techniques will be discussed and realized. Topics will cover applications in community ensembles, hydrological dynamics, landslides, epidemics, land-use change, and global carbon dynamics. It will include oral presentations of frontier articles, workflows for solving environmental problems, and written briefs on the topics.

CIAM 8236 Remote Sensing II

Three credits.

Requirements: CIAM 6235 Practical study of advanced methodologies for the analysis of satellite images and the theory behind these techniques. The use and application of programs such as Imagine, ENVI, and Idrisi for the study and analysis of environmental processes and problems of islands and tropical regions is emphasized because of their ability to analyze images with shadows caused by clouds and mountains. At the end of the course the student will have completed a research paper that could be presented at a regional scientific conference.

CIAM 8257 Environmental Model Building Techniques

Three credits.

Prerequisite: Admission to the Graduate Program in Environmental Sciences or permission from the professor.

The course is designed to train students in the intermediate level of environmental resource systems modeling by incorporating system dynamics. Students will work with models such as population-resources, lake conservation, automobile air pollution, nitrogen cycling, and more, using a program that handles most mathematical computations (such as STELLA or its equivalent) so that students can concentrate on developing the model structure and obtaining or identifying key parameters in real-world systems.

CIAM 8405 Seminar on Sustainable Environmental Management of Islands and Tropical Regions

Two credits. Two hours of seminar per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

Advanced seminar aimed at the analysis and discussion of the literature and recent developments in the area of sustainable environmental management of islands and tropical regions.

CIAM 8425 Environmental Geology

Three credits. Three hours of lecture a week.

Prerequisite: CIAM 6115, 6117, 6118 Study of the interaction between human activities and geological processes. Problems of slope stability, erosion, transport and sedimentation processes, and the measurement of the physicochemical properties of geological materials are analyzed. It examines the chemical balances and the mechanisms of transport and fate of pollutants characteristic of the soil matrix, hydrogeology, diffusion and transport of pollutants through soils and aquifers, sampling techniques, strategies for the rehabilitation of contaminated sites, geological hazards induced by natural phenomena and geological problems are studied in the context of the effect of human infrastructure development in mountainous regions, arctic, floodplains and coasts.

CIAM 8435 Environmental Hydrology

Three credits. Three hours of lecture a week.

Prerequisites: CIAM 6115, 6115, 6118.

Study of hydrological processes and water pollution. The chemical equilibria and the mechanisms of transport and fate of pollutants characteristic of the water matrix are examined. It discusses the measurement of water budgets, the determination of physical and chemical parameters for natural water, the techniques of sampling and analysis of pollutants, the processes of diffusion and transport of pollutants in surface and groundwater, the impact of various human activities on hydrological balances and water quality, as well as strategies for the prevention, remediation and mitigation of surface and groundwater contamination.

CIAM8775 Waste Management and Disposal

Three credits. Three hours of lecture a week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences. CIAM6115, 6117, 6118.

Analysis of the problem of disposal of waste of all kinds in islands and tropical regions, focusing on Puerto Rico and study of the different alternatives and technologies available. Strategies for reduction, reuse, recycling, disposal in local and regional landfills, gasification plants, incineration, and others are examined. The environmental impact of the different alternatives to the problem of waste management in islands and tropical regions is discussed, focusing on solutions consistent with sustainable development.

CIAM8785 Power Generation

Three credits. Three hours of lecture a week.

Prerequisite: CIAM6115, 6117, 6118.

Study of the fundamental concepts of energy, the laws of thermodynamics and their practical applications. Analysis of energy demand and alternatives for its generation within the context of sustainable development. The environmental impact of the different generation alternatives and the measures that can be used to minimize this impact are discussed.

CIAM 8901-8902 Graduate Seminar in Environmental Sciences I and II

A credit.

Lecture and discussion on special topics in the area of environmental sciences, usually by guest lecturers or based on works from the recent literature in the area.

CIAM8990 Special Topics in Environmental Science

One to three credits. One hour of lecture and two hours of research per week.

Prerequisite: Authorization from the director or coordinator of the Graduate Program in Environmental Sciences.

Detailed study of one or more specific topics in the area of environmental sciences, usually by visiting professors or specialists in one of the areas of environmental sciences. The course is designed to offer practical and theoretical experience on specific topics of current interest in environmental science. The themes vary each year. The format of the course encourages invited experts in the selected topic to dedicate a week or more to their lectures and empirical experiences. (Up to a maximum of 18 credits). This course is full academic load.



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Email: ccom-contact@upr.edu **Portal:**
<https://natsci.uprrp.edu/ccom/graduate-program/>

DEGREE: Master's Degree in Computer Science

TEACHERS:

Rafael Arce Nazario, PhD, Information and Computer Science and Engineering, University of Puerto Rico - Mayagüez, 2007. Professor. Interests: Computer Science Education, Hardware Security. Ext. 88362. rafael.arce@upr.edu.
<http://bit.ly/raanweb>

Carlos J. Corrada Bravo, PhD, Electrical Engineering, University of Southern California, 2002. Professor. Interests: Machine Learning Applications for Ecology, Software Development, Databases. Ext. 88354. carlos.corrada2@upr.edu.
https://scholar.google.com/citations?user=ye_FQawAAAAJ

David Flores Granados, PhD, Computer Science, Center for Scientific Research and Higher Education of Ensenada, Baja California, 2015. Assistant Professor. Interests: Bioinformatics, Data Science, Video Game Design and Development. Ext. 88341.
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Rémi Mégret, PhD, Computer Science, National Institute of Applied Sciences - Lyon, 2003. Associate Professor. Interests: Computer Vision, Machine Learning. Ext. 88355. remi.megret@upr.edu. <http://ccom.uprrp.edu/~rmegret>

Edusmildo Orozco, PhD, Information and Computer Science and Engineering, University of Puerto Rico - Mayagüez, 2005. Professor. Interests: Finite Bodies, Parallel Computing, Computer Science Education. Ext. 88353. edusmildo.orozco1@upr.edu.
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Humberto Ortiz Zuazaga, PhD, Information and Computer Science and Engineering, University of Puerto Rico - Mayagüez, 2008. Professor. Interests: Bioinformatics, Cybersecurity. Ext. 88363, 88364. humberto.ortiz@upr.edu.
<http://ccom.uprrp.edu/~humberto/>

Ivelisse Rubio Canabal, PhD, Applied Mathematics, Cornell University, 1997. Professor. Interests: Finite Fields, Number Theory. Ext. 88356.
ivelisse.rubio@upr.edu. <http://ccom.uprrp.edu/~labemmy/>

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas/>

Specific Master's Program Requirements

Meet the admission requirements for graduate studies at the Río Piedras Campus. In addition, students must meet the specific requirements of the Computer Science program:

1. Bachelor's degree in Computer Science or a Bachelor's degree and the equivalence of Data Structures (CCOM3034) and Algorithms (CCOM5050) courses. to. Students who do not possess the skills provided by the Algorithms course may receive conditional admission so that they can complete that requirement during their first semester¹.
2. A minimum GPA of 3.00 (on a scale of 0-4).
3. Adequate knowledge of Spanish and English in written and oral form.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through Apply Yourself: <https://app.applyyourself.com/?id=upr-grad>
2. Two official copies of your most recent transcript
3. At least two letters of recommendation (preferably three)
4. Statement of Purpose
5. Participate in an interview, if required by the Graduate Affairs Committee

¹ International students are not eligible for conditional admission. In addition, students who are admitted on a conditional basis do not qualify for institutional graduate assistance.

GRADUATION REQUIREMENTS:

Meet the general graduation requirements of the Río Piedras Campus. In addition, students must meet the program's specific requirements:

1. Complete all 27 credits of coursework.
2. Prepare a thesis or project. Although the new academic policy for Graduate Studies encourages the substitution of a master's thesis with a project, we provide both alternatives. Students working on theoretical aspects of Computer Science will be better served with a thesis that can lead to publications and motivate them to pursue doctoral studies. The minimum level of the master's thesis must be that of an academic paper of an expository nature related to the courses the student has taken. The minimum level of the project should be that of an app that can serve a specific target audience.

PROGRAM OF STUDY:

The student must prepare his/her academic program in conjunction with his/her supervisor.

Program Requirements	Credits
Core Courses	15
CCOM 6050 Algorithm Design and Analysis	3
CCOM 6029 High Level Programming Languages	3
CCOM 6XXX A Systems Course: Some possible systems courses are: Operating Systems, Databases, Networking, Cybersecurity, and Computer Architecture, among others.	3
CCOM 6035 Application Development	3
Thesis or project: CCOM 6996 Master's Thesis or CCOM 6997 Master's Thesis	3
Mastery	
Computer Science Electives	6
Free Electives	9
Total Credits	30

COURSE DESCRIPTION

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

CCOM 6029 High-Level Programming Languages

Three credits. One hour of lecture and two hours of discussion per 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 6035 Application Development with Social Impact

Three credits. One hour of lecture and two hours of discussion 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 6050 Algorithm Design and Analysis

Three credits. One hour of lecture and two hours of discussion per 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. This course is equivalent to MATE 6682.

CCOM 6996 Master's Thesis

One to Three credits Prerequisites: Professor's Permission In this course, students will deepen the selected topic and conduct research leading 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 face-to-face, hybrid, and online.

CCOM 6997 Master's Project

One to Three credits.

Prerequisites: Teacher's permission The course is for students to carry out 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.

OTHER COURSE DESCRIPTIONS:**CCOM 6017 Operating Systems**

Three credits. Two hours of lecture and one hour of discussion per week In this graduate course, you will be introduced as the operating systems as a vehicle for user-level applications, their usefulness of being the gatekeeper among 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. This course is equivalency with CCOM 6006 and double coded with CCOM 4017.

CCOM 6030 Software Engineering

Three credits. Two hours of lecture and one hour of discussion per week The course provides an overview of the principles and concepts of software engineering. Elements of the software life cycle, requirements analysis, implementation, verification and validation, as well as ethical issues related to the software development process are presented. Students will develop a group project that will put them in the position of software designers and developers. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6045 Computational Cell Biology

Three credits. One and a half hour of lecture, one hour of discussion per week Prerequisite: CCOM 6681 The course will introduce the student to the mathematical modeling of different cellular activities. Examples of cellular processes will be used to motivate concepts and techniques used in computational cell biology. The complexity of cellular functions modeled with mathematical and computational techniques will progressively increase. The course will focus on the simulation of functions that describe certain physiological behavior in the cell. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6070 Introduction to Machine Learning

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

The course introduces basic concepts and techniques of machine learning. The class provides a fluent introduction primarily around supervised classification algorithms, such as simple linear classifiers, decision trees, neural networks, and support vector machines. Other topics include unsupervised and semi-supervised learning, reinforcement learning, and probabilistic graphical models. The emphasis of the course will be on experimentation and practice. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6086 Computer Architecture

Three credits.

Two hours of lecture and one hour of discussion per week The course qualitatively and quantitatively examines the decisions made during computer design and their impact. You learn about simple processors that can execute multiple instructions concurrently and why today's memory systems are almost as complex as processors. Unlike an introductory computer architecture course that discusses enough to create a functional processor, this course focuses on techniques for designing "the best" processor. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6120 Introduction to Computer Vision

Three credits. Two hours of lecture and one hour of discussion per week It is a graduate course that introduces image analysis and computer vision on mathematical models and algorithms that allow computers to automatically extract information from images and videos. The topics covered will be the three main aspects: pixel-level image processing, machine learning of visual models, and estimation of geometric models. The practice will be developed with the programming of applications such as image segmentation, detection

and object recognition, using open-source software libraries. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6150 Data Mining

Three credits.

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 the 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 6189 High Performance Computing

Three credits. Two hours of lecture and one hour of discussion per week The course is an elective in which high-performance computing systems are designed: clusters, co-processors, interconnection 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. This course is equivalent to MATE 6681.

CCOM 6680 Computational Analysis

Three credits. Two hours of lecture and one hour of discussion per week The course is about numerical analysis, which aims to provide computational methods for studying and solving mathematical problems involving real variables. These methods provide approximations to the true solution of the problem, the study of errors which is very important for numerical analysis. The mathematical foundations of numerical methods are provided; Analyze the basic theoretical properties of the method: stability, precision, and computational complexity. In addition, the methods are illustrated using computational examples and counterexamples by using a high-level programming language, such as MATLAB/Octave. This course will be offered in face-to-face, hybrid and online modalities. This course is equivalent to MATE 6680.

CCOM 6685 Applied Bioinformatics

Three credits. Two hours of lecture and one hour of discussion per week Prerequisites: Authorization from the teacher The course will introduce the student to algorithm design and data analysis for molecular biology. Examples of molecular processes will be presented to motivate the study of the concepts and techniques used in computational molecular biology. The complexity of the data studied will progress, as will the mathematical and computational techniques for its analysis. The main focus of the course will be the analysis of biological sequences, This course will be offered under the face-to-face, hybrid and online modalities. This course is equivalent to MATE 6685.

CCOM 6882 Optimization

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

This is a course on nonlinear optimization problems, both unconstrained and constrained. We will study the optimality conditions and the basic methods of numerical optimization with their convergence analysis. Numerical methods include: basic descent methods, conjugate direction methods, quasi-Newton algorithms, reduced gradient method, gradient projection method, penalty and barrier methods, duality, and Lorange methods. This course is equivalent to MATE 6882.

CCOM 6981 Research and Teaching Techniques for Computer Scientists

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

The course will introduce the basic skills that are essential to becoming a successful researcher and graduate student. Conference topics will include pedagogy, research methodology, experimental design, career choices, professional ethics and academic integrity, and oral and written presentation techniques in English. Presentations will be given by CCOM faculty members and graduate students on their own research that will allow them to develop cognitive competencies for the detection and formulation of problems, as well as the development of problem-solving strategies, as a diagnostic basis for the development of proposals and projects. This course will be offered in face-to-face, hybrid and online modalities.

CCOM 6995. Topics in Computer Science

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

Teacher's Permission In this course students will undertake a detailed study through literature review, analysis, exposition, and discussion on one or more specific 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 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 8017. Advanced topics in Operating Systems.

3 credits. 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 face-to-face, hybrid, and online

CCOM 8050. Advanced topics in Algorithm Design and Analysis.

Three credits. 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 face-to-face, hybrid, and online

CCOM 8070. Advanced topics in Machine Learning.

Three credits. Prerequisites: CCOM 6070 In the course, students undertake a detailed study on one or more specific topics in Machine Learning. 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 Machine Learning. The course can be taken multiple times if the topics are different. Examples of topics are kernel-based methods, reinforcement learning, and convolutional neural networks. This course will be offered face-to-face, hybrid, and online.

CCOM 8089. Advanced topics in Compiler Design.

Three credits. Prerequisites: CCOM 6029 and CCOM 6050 In the course the student will undertake a detailed study on one or more specific topics in Compiler Design. The topics of this course are expected to be theoretical in nature. The course offers students the opportunity to learn about current issues related to compiler design. The course can be taken multiple times if the topics are different. Examples of topics include interprocedural analysis, garbage collection, and symbolic execution. This course will be offered face-to-face, hybrid
y online.

CCOM 8995. Advanced topics in Computer Science.

Three credits. Prerequisites: Permission of the teacher In the 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 face-to-face, hybrid
y online.

CCOM 8996. Doctoral Dissertation.

Three credits. Prerequisites: Pass the degree and permit exam of the Graduate Committee The course is for the student to delve into a selected topic by making a proposal and a research/creation work that results in a dissertation and dissemination of the results. It is expected that the work advances knowledge in the area of Computer Science, by making theoretical and methodological approaches in the field of study; by critically evaluating and questioning a situation or problem and offering solutions. This course will be offered face-to-face, hybrid, and online.

CCOM 8997. Continuation of Doctoral Dissertation.

Zero credits. Prerequisites: CCOM 8996 In the course is for the student to continue their work resulting in a dissertation and dissemination of the results. It is expected that the work advances knowledge in the area of Computer Science, by making theoretical and methodological approaches in the field of study; by critically evaluating and questioning a situation or problem and offering solutions. The course will count as a full load for the student. This course will be offered face-to-face, hybrid, and online.

CCOM 8999. Advanced Research in Computer Science.

Three credits. Prerequisites: Permission from the teacher 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 face-to-face, hybrid, and online.

CCOM 6997 Master's Project

One to Three credits.

Prerequisites: Teacher's permission The course is for students to carry out 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.



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Email: gradprog@fisica.uprrp.edu

DEGREE: **Master of Science with a major in Physics**

TEACHERS:

Aliev, Fouad, Ph.D, Leningrad State University, 1975, Professor. Experimental solid-state physics; condensed mass physics; liquid crystals; porous medium dielectric spectroscopy; Static dispersion techniques and light dynamics.

Altschuler Stern, Daniel R., PhD, Brandeis University, 1975, Professor. Astronomy, extragalactic radio sources; active galactic nucleus.

Bhuiyan, Lutful B., Ph.D, University of London, 1977, Professor. Statistical mechanics; chemical-physics; electrolyte structure and thermodynamics; double electric layers; theory of liquids.

Feng, Xianping, Ph.D, La Trobe University, Australia, 2000, Professor. Performed experiments on laser-matter interaction utilizing Nd:YAG short pulselasers; thin film deposition and research; Photoemission & laser characterization; Study/analyze hot and dense plasma generated by laser radiation or in plasma focus.

Fonseca Zamora, Luis, Ph.D, University of Puerto Rico, 1985, Professor. Solid-state physics; optical and electrical properties of crystalline and amorphous materials; Nanostructured semiconductors: synthesis and opto-electronic properties.

Katihar, Ram S., Ph.D, Indian Institute of Science, Bangalore, 1968, Professor. Raman and infrared spectroscopy; growth and characterization of ferroelectrics, transparent semiconductors, solid state ionics in thin film and nano-crystalline forms for optoelectronic applications; Lattice dynamics of phonons.

Martínez Collazo, Antonio, Ph.D, American University, 1990, Professor. Condensed matter physics; epitaxial growth of metals and widebandgap semiconductors; transport properties; surface physics.

Morell Marrero, Gerardo, Ph.D, University of Puerto Rico, 1995. Professor. Novel nanostructured materials for technological applications.

Nieves Vázquez, José F., Ph.D, University of Pennsylvania, 1980, Professor. Theoretical particle physics.

Palai, Ratnakar, Ph.D, University of Strathclyde, UK, 2004, Professor. Nanostructure Materials, "spintronic devices".

Pantoja, Carmen, Ph.D, University of Oklahoma, 1995, Professor. Astronomy; spectral analysis; Galaxies; cosmology.

Selsby, Ronald G., Ph.D, Ohio State University, 1969, Professor. Chemical-physics; calculations of molecular ionization energies and electronic affinities.

Ubriaco, Marcelo R., Ph.D, University of North Carolina, 1989, Professor. Quantum field theory; quantum group applications to quantum statistical mechanics.

Vargas, Arnaldo, Ph.D, Indiana University, 2016, Assistant Professor, Theoretical Physics, phenomenology.

Velev, Julian, Ph.D, University of Illinois, Urbana-Champaign, 2002, Professor. Condensed matter physics, (electronic structure and transport).

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. *Application for Admission to Graduate Studies* in electronic format through the *ApplyYourself* platform.
2. A bachelor's degree in Physics. If the student has completed previous graduate studies, the corresponding academic record will also be taken into account for admission.
3. Have an academic index of 3.0 on a scale of 4.0, or equivalent.
4. Have a working knowledge of the English language, both oral and written. It is also recommended to know the Spanish language to enrich the academic and cultural experience. It is advisable to take the TOEFL test to show that you possess a working knowledge of English. However, there are other ways to certify knowledge of the language. For example, if the student comes from a university whose curriculum is in English, it shows that he or she has a working knowledge of that language. The program coordinator can also certify the candidate's working knowledge of English after conducting an interview in English.
5. Two letters of recommendation.

6. Conditional Admission: In all cases, the complete academic record of the applicants will be evaluated to determine the need to compensate for any area of Physics, if necessary, specific undergraduate courses will be assigned to each case, during the first year of studies. These cases will be considered conditional admission, and the undergraduate credits recommended by the program coordinator will be included in the nine credits required to be considered a full-time graduate student, but will not be included in the total credits required to complete the master's degree. Students who have received conditional admission must meet the conditions required by the Graduate Committee during their first year of graduate studies. Failure to do so will result in your conditional admission being automatically terminated and you will not be eligible for the Program.

GRADUATION REQUIREMENTS:

- 18 credits in core courses
- 2 credits in the Graduate Colloquium (FISI 6500)
- 4 credits of Research Experiences in Physics (FISI 6101)
- 6 credits in 6000-level electives in Physics, Chemistry or Mathematics.
- Comprehensive Examination
- Present a graduate seminar

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	18
FISI 6401 Methods of Theoretical Physics	3
FISI 6412 Classical Mechanics I	3
FISI 6431 Electromagnetic Theory	3
FISI 6451 Quantum Mechanics I	3
FISI 6452 Quantum Mechanics II	3
FISI 6454 Statistical Mechanics	3
Elective courses (6000 level of Physics, Chemistry or Mathematics)	6
FISI 6500 Graduate Colloquium	2
FISI 6101 Research Experiences in Physics	4
Comprehensive Examination	0
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

FISI 6401 Methods of Theoretical Physics I

Three credits. Three hours of lecture a week.

Prerequisite: FISI 4032 Functions of a Complex Variable, Partial Differential Equations of Physics. General solutions, series and comprehensive representation. Conditions of particular limits and functions. Hilbert Spaces, Green's Functions and Generalized Functions, Integral Equations, Perturbation Methods, Spread Theory. Complex Energy and Properties of Angular Momentum, Principles of Variation

FISI 6412 Advanced Mechanics I

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's Permission Principles of Variations; Lagrange, Hamilton, and Hamilton-Jacobi theories mechanical-optical analogies. Theory of small oscillations. The wave equation in one, two, and three dimensions. Perturbation theory. Theory of recreation.

FISI 6431 Electromagnetic Theory

Three credits.

Prerequisite: Permission from the Director of the Department.

Study of electrostatics, potential theory, magnetic theory, Maxwell's equations and vacuum waves.

FISI 6451 Quantum Mechanics I

Three credits.

Prerequisite: Permission from the Director of the Department.

Introduction to Schrodinger's wave equation with simple applications. Eigen Function and Value Problems; the harmonic oscillator. Heisenberg's uncertainty principle. Wave equation for the hydrogen atom and its solutions.

FISI 6452 Quantum Mechanics II

Three credits.

Prerequisite: FISI 6451 or its equivalent Matrices and operators, Hilbert spaces, and transformation theory. Angular momentum and spin. High-particle systems. Perturbation Theory. Symmetry properties and applications. Dirac's electron theory and introduction to quantum electrodynamics.

FISI 6454 Statistical Mechanics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6452 Generalized Canonical Formulation of Quantum Mechanics, Applications to Various Thermodynamic Systems. Irreversible statistical mechanics.

FISI 6500 Colloquium I and II

Zero to one credit. Weekly Meetings.

Lectures by visitors or faculty members on research in various areas of physics.

FISI 6101 Research Experiences in Physics

Four credits.

Prerequisites: Authorization from the supervising professor of the project.

Corerequisite: FISI 6500.

In this course, the student will carry out a research project under the supervision of a member of the faculty. It is intended for graduate students who are going to complete their master's degree without a thesis. Experimental research will include advanced instrumentation techniques, inspection of instruments used in experimental physics and computer-controlled experimental apparatus. Theoretical research will include the study and application of theoretical physics techniques to a relevant problem in the modern physics literature. This course will be presented in the face-to-face modality.

OTHER COURSE DESCRIPTIONS:**FISI 6402 Methods of Theoretical Physics II**

Three credits. Three hours of lecture a week.

Prerequisite: FISI 4032 Functions of a Complex Variable, Partial Differential Equations of Physics. General solutions, series and comprehensive representation. Conditions of particular limits and functions. Hilbert Spaces, Green Functions and Generalized Functions Integral Equations, Perturbation Methods, Spread Theory. Complex Energy and Properties of Angular Momentum, Principles of Variation.

FISI 6406 Advanced Laboratory I

Three credits. Three hours of lecture and three hours of lab per week.

Prerequisite: Teacher's permission.

Advanced level experiments in heat, optics, electromagnetism, electronics, atomic and nuclear physics with special dedication to laboratory techniques used in research.

FISI 6407 Advanced Laboratory II

Three credits. Three hours of lecture and three hours of lab per week.

Prerequisite: Teacher's permission.

Advanced level experiments in heat, optics, electromagnetism, electronics, atomic and nuclear physics with special dedication to laboratory techniques used in research.

FISI 6413 Advanced Mechanics II

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's Permission Principles of Variations; Lagrange, Hamilton, and Hamilton-Jacobi Theories of Mechanical-Optical Analogies. Theory of small oscillations.

The Wave Equation in One, Two

y three dimensions. Perturbation theory. Theory of recreation.

FISI 6426 Solid State Physics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6451, 6454 (concurrently) Study of crystal structures, dislocations, crystal growth, and lattice ligation energy. Discussion of the Free Electron Model for Electrical Conduction

and thermal in metals. The theory of bands for conductors and insulators. Excitons, optical absorption and luminescence.

FISI 6432 Classical Electrodynamics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6431 Maxwell's Equations, Conservation Laws, Gauge and Potential Transformation, Solution of Homogeneous and Inhomogeneous Wave Equation. Relativity. Radiation from an accelerated charge, radiation reaction. Stress properties of the electromagnetic field.

FISI 6438 Basic Electron Microscopy

Three credits. Three hours of lecture a week.

This is an introductory level course on electron microscopy for the study of materials. The course is designed in such a way that it includes significant exposure to instrumentation. Also, in order to use the available instrumentation optimally, students will acquire some theoretical and practical knowledge through short lectures. Topics include the basics of: sample preparation, scanning electron microscopy, transmission electron microscopy, and determination of atomic structures.

FISI 6441 Nuclear Theory

Three credits. Three hours of lecture a week.

Structure and systematics of the nucleus. Properties of nuclear forces. The two-body problem. Nuclear models, nuclear reactions. Interaction with electromagnetic radiation. Beta decay. Introduction to Bruckner's theory of nuclear matter.

FISI 6453 Quantum Mechanics III

Three credits.

Prerequisite: FISI 6452 or equivalent.

Matrices and operators, Hilbert spaces, and transformation theory. Angular Momentum y spin. High-particle systems. Perturbation Theory. Symmetry Properties y applications. Dirac's electron theory and introduction to quantum electrodynamics.

FISI 6462 Quantum Field Theory I

Three credits. Three hours of lecture a week.

Classical fields and relativistic wave equations. Quantization of wave fields. Green Functions. Feynmann Position Theory. S-matrix theory and elementary applications. Renormalization theory. Lee's model. The problem of nuclear force. The axiomatic approach. Dispersion relationships. Regge's Polo Shirts.

FISI 6463 Quantum Field Theory II

Three credits. Three hours of lecture a week.

Classical fields and relativistic wave equations. Quantization of wave fields. Green Functions. Feynmann Position Theory. S-matrix theory and elementary applications. Renormalization theory. Lee's model. The problem of nuclear force. The axiomatic approach. Dispersion relationships. Regge's Polo Shirts.

FISI 6481 Group Theory and Quantum Mechanics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6452 Elements of Group Theory. Spatial groups and their representation. Invariance of the kinematic and dynamical relations of quantum mechanics on the permutation and Lorentz groups. Block functions and Brillouin zones. Elemental excitations.

FISI 6483 Special Topics in Theoretical Physics I

Three credits. Three hours of lecture a week.

Topics selected according to the needs and preparation of the student.

FISI 6484 Special Topics in Theoretical Physics II

Three credits. Three hours of lecture a week.

Topics selected according to the needs and preparation of the student.

FISI 6485 Semiconductor Physics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6451 Fundamentals of Semiconductors in Quantum Mechanics, Band Theory, Emission, Metal-Semiconductor Contact, P-N Junctions, Minority Transporters, Entrapment, Injections, Diodes, Tunneling, Transistors, Luminescence, Photoconductivity, Electrical Noise in Semi-Conductors.

FISI 6510 Advanced Topics in Physics

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the department director.

Lectures, discussions, and readings on advanced physics topics. (They can be repeated up to a maximum of 6 credits if the topics are different).

FISI 6995 Research Seminar

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

Prerequisite: FISI 4032 (Methods of Mathematical Physics) or its equivalent.

Advanced studies and formative discussions on specialized topics in Physics. It is focused on the discussion of frontier experimental theoretical methods, the discussion of original research results and advanced readings of the scientific literature.

FISI 8105 Topics in Materials Science

Three credits. Hours by agreement.

Prerequisite: FISI 4057

Formulation of the physical properties of crystals in tensor notation, emphasizing the common mathematical basis of the properties and the thermodynamic relationships between these properties. Topics to be studied include: tensors, paramagnetism, electrical polarization, stress tensor, thermal expansion and strain tensor, piezoelectricity, elasticity, transport properties, electro-optical effect.

FISI 8115 Infrared and Raman Spectroscopy

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6452 or its equivalent An advanced-level course on the theory of the interaction of radiation with matter and related experimental techniques, with emphasis on the interactions responsible for Raman scattering and the absorption and emission of infrared radiation.

FISI 8116 Advanced Electron Microscopy

Three credits. Three hours of lecture a week.

It includes high-resolution electron microscopy and spectroscopy techniques applied to the study of nanomaterials. Electron microscopy techniques are essential for the fine characterization of a variety of materials and especially nanomaterials. This course is appropriate for graduate students who wish to improve their skills in materials characterization using high-resolution electron microscopes. Previous experience in basic scanning and transmission electron microscopy is required. The course is designed in such a way that it includes significant exposure to high-resolution instrumentation. Also, in order to use the available instrumentation optimally, students will acquire certain theoretical and practical knowledge through short lectures. Topics include: high-resolution scanning electron microscopy, high-resolution transmission electron microscopy, high-resolution electron diffraction, high-resolution X-ray spectroscopy, and high-resolution electron energy loss spectroscopy.

FISI 8135 Chemistry and Physics of Surfaces

Three credits. Hours by agreement.

Prerequisite: Teacher's permission.

Theory of surface states in metals. Adsorption theory. Valence method. Linal responses. Loaded surfaces. Experimental Methods (auger). Properties of quasi-2-dimensional systems. Adsorption and desorption. EID (Electron-Impact Desorption). PID (Photo Impact Desorption). Photoemission spectroscopy and Field Emission. Leed (Low Energy Electron Diffraction). Film-forming techniques of their properties.

FISI 8145 Advanced Electrochemistry

Three credits. Three hours of lecture a week.

The structural basis of electrochemistry. Thermodynamic description of the electrified interface. Faradic and non-faradic current. Theory of electrochemical velocities. Mass transfer. Analytical methods with constant currents and constant voltages. Mechanistic applications of voltammetry. Cullumetric and preparative methods in organic chemistry. Batteries and fuel cells.

FISI 8992 Special Topics in Materials Science

From one to four credits Prerequisite: Permission from the head of the Department of Physics Formulation of the physical properties of crystals in tensor notation; emphasizing the common mathematical basis of the properties and the thermodynamic relationships between these properties. Topics to be studied include: tensors, paramagnetism, electrical polarization, stress tensor, thermal expansion and strain tensor, piezoelectricity, elasticity, transport properties, electro-optical effect, and optical activity.

FISI 8994 Special Topics in Solid State Physics

From one to four credits. Hours by agreement.

Prerequisite: Teacher's permission.

Study and discussion of various topics in the field of solid state physics.



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Email: ileana.desiderio@upr.edu

DEGREE: PhD in Philosophy with a specialization in Physics-Chemistry

TEACHERS:

Aliev Fouad, Ph.D, Leningrad State University, 1975, Professor. Experimental solid-state physics; condensed matter physics; liquid crystals; dielectric spectroscopy; porous media; Static and dynamic light scattering techniques.

Antonio Martinez , Ph.D, American University, 1990, Professor. Condensed Matter Physics; epitaxial growth and bandgap techniques in semiconductors; transport properties; Surface physics. UPR Río Piedras Campus, Department of Physics.

Arturo J. Hernandez-Maldonado , Ph.D, University of Michigan – Ann Arbor, 2004, Associate Professor. Nanoporous materials: design, synthesis, properties and applications. UPR Mayagüez Campus, Department of Chemical Engineering.

Bhuiyan, Lutful B., Ph.D, University of London, 1977, Professor. Statistical mechanics; chemical physics; structure and thermodynamics of electrolytes; electrical double layer (EDL); Liquid theory.

Brad R. Weiner, Ph.D., University of California - Davis, 1986, Professor. Molecular reaction dynamics in the gaseous state; laser photochemistry and photophysics; kinetics of gaseous intermediate reactants; nonlinear photoprocesses; molecular energy transfer; Laser ablation mechanisms. UPR Río Piedras Campus, Department of Chemistry.

Carlos Marín , Ph.D, Universidad Autónoma de Madrid, 1997; Rensselaer Polytechnic Institute, 2002, Assistant Professor. Production and characterization of nanostructured materials; heat and mass transfer related to the processing of materials on Earth and in space; Electronic and thermophysical properties of solid and molten materials at high temperatures. UPR Mayagüez Campus, Department of General Engineering.

Carlos Rinadi , Ph.D, Massachusetts Institute of Technology, 2002. Nanostructured materials; dispersed magnetic nanoparticles; Synthesis and functionalization for sensor, energy and biomedical applications. UPR Mayagüez Campus, Department of Chemical Engineering, Assistant Professor. University of Florida, Department of Biomedical Engineering, Professor.

Ernesto Esteban, Ph.D, University of Notre Dame, 1983, Professor. Astrophysics; astrochemistry. UPR Humacao Campus, Department of Physics and Electronics.

Feng, Xianping , Ph.D, La Trobe University, Australia, 2000, Associate Professor. He conducted experiments on material-laser interactions using pulsed Nd:YAG lasers; thin film synthesis and analysis; Photoemission properties, high-energy, high-density plasma studies generated by laser radiation or plasma focus

Gerardo Morell, Ph.D, University of Puerto Rico, Río Piedras Campus, 1995. Professor. Nanostructured materials for electronic and biomedical applications. UPR Río Piedras Campus, Department of Physics.

José M. Rivera, Ph.D, Massachusetts Institute of Technology, 2000, Associate Professor. Supramolecular chemistry, molecular recognition, organic synthesis, nanotechnology, biorganic chemistry, medicinal chemistry. UPR Río Piedras Campus, Department of Chemistry.

Josee Vedrine-Pauleus , Ph.D, Princeton University, 2006, Assistant Professor. Fabrication and characterization of organic solar cells. UPR Humacao Campus, Department of Physics and Electronics.

Juan C. Cersósimo , Ph.D, La Plata National University, Argentina, 1986, Professor. Astrophysics, binary stars, astrochemistry. UPR Humacao Campus, Department of Physics and Electronics.

Julian Velez, Ph.D, University of Illinois, Urbana-Champaign, 2002, Associate Professor. Condensed Matter Physics; electronic structures and transport properties. UPR Río Piedras Campus, Department of Physics.

Kai H. Griebenow , Ph.D, University of Düsseldorf, Germany, 1992, Professor. Protein encapsulation aimed at preserving their structure; enzymology in non-aqueous media; protein formulations; protein stability; glycosylation of proteins; relationship between protein structural dynamics and enzyme activity; protein modification with PEGs, biofuel cells. UPR Río Piedras Campus, Department of Chemistry.

Luis F. Fonseca, Ph.D, University of Puerto Rico, Río Piedras Campus, 1985, Professor. Solid State Physics; optical and electrical properties of crystalline and amorphous solids; semiconductor nanostructures; synthesis and optoelectronic properties. **Luis G. Rosa**, Ph.D,

University of Nebraska-Lincoln, 2005, Assistant Professor. Interactions and properties between surfaces and nanostructures. UPR Humacao Campus, Department of Physics and Electronics.

Mayra E. Lebrón Santos , Ph.D. in Astronomy, 2000, Assistant Professor, Institute of Astronomy, National Autonomous University of Mexico (UNAM). Study of the gases surrounding young, high-density stars. UPR Río Piedras Campus, Department of Physics.

Natalya A. Zimbovskaya, Ph.D, D.Sc, Russian Academy of Sciences, 1977-1994, Professor. Solid State Physics; electronic structures and transport properties. UPR Humacao Campus, Department of Physics and Electronics.

Nicholas J. Pinto, Ph.D, Montana State University, 1992, Professor. Polymers; functional nanofibers. UPR Humacao Campus, Department of Physics and Electronics.

Olga Mayol, Ph.D, University of Puerto Rico – Río Piedras, 1988, Professor. Chemical, physical and optical properties of atmospheric aerosols. UPR Río Piedras Campus, Environmental Sciences Program.

Rafael J. Muller , Ph.D, Pennsylvania State University, 2002, Professor. Astrophysics; binary stars; astronomical instrumentation; astrochemistry. UPR Humacao Campus, Department of Physics and Electronics.

Ram Katiyar, Ph.D, Indian Institute of Science, Bangalore, 1968, Professor. Raman and infrared spectroscopy; growth and characterization of ferroelectrics; transparent semiconductors; solid-state ions in thin films and nanocrystals for optoelectronic applications; Phonon dynamics. UPR Río Piedras Campus, Department of Physics.

Ratnakar Palai, Ph.D, University of Strathclyde, UK, 2004, Assistant Professor. Physics of Nanostructured Materials; Spintronic devices. UPR Río Piedras Campus, Department of Physics.

Rogério Furlan , Ph.D, University of São Paulo, Brazil, 1990, Professor. Nanofibers for sensors, actuators and biological applications. UPR Humacao Campus, Department of Physics and Electronics.

Ronald G. Selsby , Ph.D., Ohio State University, 1969, Professor. Chemical Physics; molecular ionization energies and electron affinities. UPR Río Piedras Campus, Department of Physics.

Ubaldo M. Córdova-Figueroa, Ph.D. Chemical Engineering, 2008, California Institute of Technology, Assistant Professor. Directed movement of colloidal particles by chemical reactions: osmotic propulsion. UPR Mayagüez Campus, Department of Chemical Engineering.

Wilfredo Otaño-Rivera , Ph.D, Pennsylvania State University, 1998, Professor. Nanolaminates, electrospinning, sputtering. UPR Cayey Campus, Department of Mathematics and Physics.

Zhongfang Chen, Ph.D, Nankai University, China, 2000, Associate Professor. Computational Chemistry, Computational Science of Nanomaterials, Physical and Organic Chemistry. UPR Río Piedras Campus, Department of Chemistry.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. *Application for Admission to Graduate Studies* in electronic format through the *ApplyYourself* platform.
2. Possess a Bachelor's degree in Physics, Chemistry, Materials Science, Engineering, or other equivalent, from an accredited institution in the United States or an equivalent degree from a foreign university. If the student has completed graduate studies prior to entering the Doctoral Program in Chemical Physics, the corresponding academic record will also be taken into account for admission. In all cases, the complete academic record of the accepted students will be evaluated to determine the need to compensate for any area of Physics or Chemistry; If necessary, specific undergraduate courses will be assigned in each case, during the first year of studies. These cases will be considered conditional admission, and the undergraduate credits recommended by the program coordinator will be included in the nine credits required to be considered a full-time graduate student, but will not be included in the total credits required to complete the master's degree.
3. Have an academic index of 3.0 on a scale of 4.0, or equivalent.
4. Have a working knowledge of the English language, both oral and written. It is also recommended to know the Spanish language, to enrich the academic and cultural experience. It is advisable to take the TOEFL test to show that you possess a working knowledge of English. However, there are other ways to certify knowledge of the language. For example, if the student comes from a university whose curriculum is in English, it shows that he or she has a working knowledge of that language. The program coordinator can also certify the candidate's working knowledge of English after conducting an interview in English.
5. Two letters of recommendation.

GRADUATION REQUIREMENTS:

1. Complete a minimum of 45 credits in graduate courses related to Chemical Physics. At least nine of the 45 credits must be at the 8000 level. A minimum of nine credits must be in Physics. A minimum of nine credits must be in Chemistry. Up to 24 credits related to Physical Chemistry from other programs may be transferred.
2. Pass three written degree exams upon completion of the first academic year in the PhD program: one in Physical Chemistry and two in Physics (Thermodynamics and Statistical Mechanics, Electromagnetism, Classical Mechanics, or Quantum Mechanics).
3. Spend two semesters in the Physical Chemistry Seminar and teach a Chemical Physics seminar.
4. Submit in writing and defend a research proposal, other than the thesis, before a thesis committee composed of at least three professors from the Chemical Physics Program, including at least one member from the Department of Physics and one from the Department of Chemistry of the Río Piedras Campus.
5. Complete at least 24 research credits for the thesis.
6. Publish at least one article related to the research of their thesis in a peer-reviewed journal, where the student is the main author and the thesis supervisor is one of the co-authors.
7. Complete one year of residency.
8. Submit in writing and publicly defend an original research thesis before a thesis committee composed of at least three professors from the Chemical Physics Program, including at least one member from the Department of Physics and one from the Department of Chemistry of the Río Piedras Campus.
9. Application: The candidacy for the PhD in Physics-Chemistry will be certified once the student passes the degree exams, and maintains an academic index greater than 3.0 on a scale of 4.0. All students must pass the degree exams after finishing their first academic year, otherwise they will be expelled from the Program. Paternity, medical and part-time student extensions may be granted. However, no extension will exceed two academic years from the date of entry into the Program.

PROGRAM OF STUDY:

Courses are selected each semester with the help of a Physics-Chemistry Program coordinator, taking into account the student's background and career goals.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

QUIM 6611 Chemical Physics I

Three credits. Three lectures a week.
Prerequisite: QUIM 4042 or equivalent. Laws and Principles of Theoretical Chemistry.

QUIM 6612 Chemical Physics II

Three credits. Three hours of lecture a week. Prerequisite: QUIM 4042 or its equivalent and QUIM 6611 Laws and Principles of Theoretical Chemistry.

QUIM 8605 Physical Chemistry Seminar

Two credits.
Advanced level seminar on recent topics in Physical Chemistry.

QUIM 8606 Seminar on Physical Chemistry

Two credits.
Advanced level seminar on recent topics in Physical Chemistry.

FISI 6401 Methods of Theoretical Physics I

Three credits. Three hours of lecture a week.
Prerequisite: FISI 4032 Functions of a Complex Variable, Partial Differential Equations of Physics. General solutions, series and comprehensive representation. Conditions of particular limits and functions. Hilbert spaces, Green's functions, and generalized functions. Integral equations, perturbation methods, spreading theory. Complex Energy and Properties of Angular Momentum, Principles of Variation.

FISI 6402 Methods of Theoretical Physics II

Three credits. Three hours of lecture a week.
Prerequisite: FISI 4032 Functions of a Complex Variable, Partial Differential Equations of Physics. General solutions, series and comprehensive representation. Conditions of particular limits and functions. Hilbert spaces, Green's functions, and generalized functions. Integral equations, perturbation methods, spreading theory. Complex Energy and Properties of Angular Momentum, Principles of Variation.

FISI 6406 Advanced Laboratory I

Three credits. Three hours of lecture and three hours of lab per week.

Prerequisite: Teacher's permission.

Advanced level experiments in heat, optics, electromagnetism, electronics, atomic and nuclear physics with special dedication to laboratory techniques used in research.

FISI 6407 Advanced Laboratory II

Three credits. Three hours of lecture and three hours of lab per week. Prerequisite:

Teacher's permission. Advanced level experiments in heat, optics, electromagnetism, electronics, atomic and nuclear physics with special dedication to laboratory techniques used in research.

FISI 6412 Advanced Mechanics I

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's Permission Principles of Variations; theories of Lagrange, Hamilton, and Hamilton-Jacobi, mechanical-optical analogies. Theory of small oscillations. The wave equation in one, two, and three dimensions. Perturbation theory. Theory of recreation.

FISI 6413 Advanced Mechanics II

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's Permission Principles of Variations; theories of Lagrange, Hamilton, and Hamilton-Jacobi, mechanical-optical analogies. Theory of small oscillations. The wave equation in one, two, and three dimensions. Perturbation theory. Theory of recreation.

FISI 6426 Solid State Physics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6451, 6454 (Concurrently) Study of crystal structures, dislocations, crystal growth, and lattice vibration energy. Discussion of the free electron model for electrical and thermal conduction in metals. The theory of bands for conductors and insulators. Excitons, optical absorption and luminescence.

FISI 6431 Electromagnetic Theory

Three credits.

Prerequisite: Permission from the head of the Department Study of Electrostatics, Theory of Potentials, Magnetic Theory, Maxwell's Equations and Waves in a Vacuum.

FISI 6432 Classical Electrodynamics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6431 Maxwell's Equations, Conservation Laws, Gauge and Potential Transformation, Solution of the Homogeneous and Inhomogeneous Wave Equation.

Relativity. Radiation from an accelerated charge, radiation reaction. Stress properties of the electromagnetic field.

FISI 6438 Basic Electron Microscopy

Three credits. Three hours of lecture a week.

This is an introductory level course on electron microscopy for the study of materials. The course is designed in such a way that it includes significant exposure to instrumentation.

Also, in order to use the available instrumentation optimally, students will acquire some theoretical and practical knowledge through short lectures. Topics include the basics of: sample preparation, scanning electron microscopy, transmission electron microscopy, and determination of atomic structures.

FISI 6441 Nuclear Theory

Three credits. Three hours of lecture a week.

Structure and systematics of the nucleus. Properties of nuclear forces. The two-body problem. Nuclear models, nuclear reactions. Interaction with electromagnetic radiation. Beta decay. Introduction to Bruckner's theory of nuclear matter.

FISI 6451 Quantum Mechanics I

Three credits.

Prerequisite: Permission from the Head of the Department Introduction to Schrodinger's wave equation with simple applications. problems of functions and values choose; the harmonic oscillator. Heisenberg's uncertainty principle. Wave equation for the hydrogen atom and its solutions.

FISI 6452 Quantum Mechanics II

Three credits.

Prerequisite: FISI 6451 or its equivalent Matrices and operators, Hilbert spaces, and transformation theory. Angular Momentum
y spin. High-particle systems. Perturbation theory. Symmetry Properties
y applications. Dirac's electron theory and introduction to quantum electrodynamics.

FISI 6453 Quantum Mechanics III

Three credits.

Prerequisite: FISI 6451 or its equivalent Matrices and operators, Hilbert spaces, and transformation theory. Angular Momentum
y spin. High-particle systems. Perturbation theory. Symmetry Properties
y applications. Dirac's electron theory and introduction to quantum electrodynamics.

FISI 6454 Statistical Mechanics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6452 Generalized Canonical Formulation of Quantum Mechanics, Applications to Various Thermodynamic Systems. Irreversible statistical mechanics.

FISI 6462 Quantum Field Theory I

Three credits. Three hours of lecture a week.

Classical fields and relativistic wave equations. Quantization of wave fields. Green Functions. Feynmann Position Theory. S-matrix theory and elementary applications. Renormalization theory. Lee's model. The problem of nuclear force. The axiomatic approach. Dispersion relationships. Regge's Polo Shirts.

FISI 6463 Quantum Field Theory II

Three credits. Three hours of lecture a week.

Classical fields and relativistic wave equations. Quantization of wave fields. Green Functions. Feynmann Position Theory. S-matrix theory and elementary applications. Renormalization theory. Lee's model. The problem of nuclear force. The axiomatic approach. Dispersion relationships. Regge's Polo Shirts.

FISI 6481 Group Theory and Quantum Mechanics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6452 Elements of Group Theory. Spatial groups and their representation. Invariance of the kinematic and dynamical relations of quantum mechanics on the permutation and Lorentz groups. Block functions and Brillouin zones. Elemental excitations.

FISI 6483 Special Topics in Theoretical Physics

Three credits. Three hours of lecture a week.

Topics selected according to the needs and preparation of the student.

FISI 6484 Special Topics in Theoretical Physics

Three credits. Three hours of lecture a week.

Topics selected according to the needs and preparation of the student.

FISI 6485 Semiconductor Physics

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6451 Fundamentals of Semiconductors in Quantum Mechanics, Band Theory, Emission, Metal-Semiconductor Contact, P-N Junctions, Minority Transporters, Entrapment, Injections, Diodes, Tunneling, Transistors, Luminescence, Photoconductivity, Electrical Noise in Semi-Conductors.

FISI 6500 Colloquium I and II

Zero to one credit. Lectures by visitors or faculty members on research in various areas of physics

FISI 6510 Advanced Topics in Physics

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the head of the department Lectures, discussions, and readings on advanced physics topics. (They can be repeated up to a maximum of 6 credits if the topics are different).

FISI 6896 Continuation of Thesis

Zero credits.

Prerequisite: Have completed all course and research requirements for the master's degree.

This course allows those students in the master's program who have completed the credit requirements in coursework and research; Stay active students while finishing their thesis work.

FISI 6991 Research

From one to six credits.

Research work supervised by a member of the department for those submitting their thesis for accreditation.

FISI 6995 Research Seminar

Credits: 1-3 One to three credits. Three hours of seminar per week.

Prerequisite: FISI4032 (Methods of Mathematical Physics) or its equivalent.

Advanced studies and formative discussions on specialized physics topics. It is focused on the discussion of frontier experimental theoretical methods, the discussion of original research results and advanced readings of the scientific literature.

FISI 8105 Topics in Materials Science

Credits: Three credits. Hours by agreement.

Prerequisite: FISI 4057 Formulation of the physical properties of crystals in tensor notation, emphasizing the common mathematical basis of the properties and the thermodynamic relationships between these properties. Topics to be studied include: tensors, paramagnetism, electrical polarization, stress tensor, thermal expansion and strain tensor, piezoelectricity, elasticity, transport properties, electro-optical effect.

FISI 8115 Infrared and Raman Spectroscopy

Three credits. Three hours of lecture a week.

Prerequisite: FISI 6451 or equivalent An advanced-level course on the theory of the interaction of radiation with matter and related experimental techniques. With emphasis on the interactions responsible for Raman scattering and the absorption and emission of infrared radiation.

FISI 8116 Advanced Electron Microscopy

Three credits. Three hours of lecture a week.

It comprises high-resolution electron microscopy and spectroscopy techniques applied to the study of nanomaterials. Electron microscopy techniques are essential for the fine characterization of a variety of materials and especially nanomaterials. This course is appropriate for graduate students who wish to improve their skills in materials characterization using high-resolution electron microscopes. Previous experience in basic scanning and transmission electron microscopy is required. The course is designed in such a way that it includes significant exposure to high-resolution instrumentation. Also, in order to use the available instrumentation optimally, students will acquire certain theoretical and practical knowledge through short lectures. Topics include: high-resolution scanning electron microscopy, high-resolution transmission electron microscopy, high-resolution imaging, high-resolution electron diffraction, high-resolution X-ray spectroscopy, and high-resolution electron energy loss spectroscopy.

FISI 8135 Chemistry and Physics of Surfaces

Three credits. Hours by agreement.

Prerequisite: Permission from the Director Theory of Surface States in Metals. Adsorption theory. Valence method. Linear responses. Loaded surfaces. Experimental methods (Auger). Properties of quasi-2-dimensional systems. Adsorption and desorption. EID (Electron-Impact Desorption). PID (Photo Impact Desorption). Photoemission and field emission spectroscopy. LEED (Low Energy Electron Diffraction). Film-forming techniques of their properties.

FISI 8145 Advanced Electrochemistry

Three credits. Three hours of lecture a week.

The structural basis of electrochemistry. Thermodynamic description of the electrified interface. Faradic and non-faradic current. Theory of electrochemical velocities. Mass transfer. Analytical methods with constant currents and constant voltages. Mechanistic applications of voltammetry. Coulometric and preparative methods in organic chemistry. Batteries and fuel cells.

FISI 8991 Research for the Thesis in Physics-Chemistry

Credits: From one to twelve credits.

Research work towards the doctoral thesis under the advice of a faculty member.

FISI 8992 Special Topics in Materials Science

Credits: One to four credits.

Prerequisite: Permission from the head of the Department of Physics.

Formulation of the physical properties of crystals in tensor notation; emphasizing the common mathematical basis of the properties and the thermodynamic relationships between these properties. Topics to be studied include: tensors, paramagnetism, electrical polarization, stress tensor, thermal expansion and strain tensor, piezoelectricity, elasticity, transport properties, electro-optical effect, and optical activity.

FISI 8994 Special Topics in Solid State Physics

Credits: One to four credits. Hours by agreement.

Prerequisite: Director's permission Study and discussion of various topics in the field of solid-state physics.

FISI 8995 Seminar in Physics-Chemistry (Chemistry-Physics)

Credits: One to four credits. Two hours of lecture per week. Prerequisite: Be a student of the doctoral program in physics-chemistry Seminars presented by students under the supervision of a faculty member and with assistance from the department's faculty. The course can be repeated up to a maximum of 2 credits.

FISI 8996 Specialized Topics in Physics-Chemistry

Credits: One to four credits. By agreement.

Prerequisite: Director's Permission An advanced course covering special topics in the general area of physics-chemistry. The specific content in a given offering will be determined by the need for instruction in a specialized topic to accommodate the research interests of students and faculty in the physics-chemistry doctoral program.



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<http://math.uprrp.edu>

DEGREE: Master of Science with a major in Mathematics

TEACHERS:

Iván Cardona, PhD, Florida State University, 1987, Professor. Geometric topology; Manifolds and theory of three-dimensional knots. ivan.cardona1@upr.edu

M. Reza Emamy K, PhD, University of California at Berkeley, 1981, Professor. Convex and discrete geometry; polytopes; threshold logic; Hypercube optimization. mreza.emamy@upr.edu

Raúl Figueroa, PhD, University of Iowa, 1988, Professor. Geometries; finite geometries; finite bodies; combinatorics; Algebraic geometry. raul.figueroa3@upr.edu

Guihua Gong, PhD, State University of New York at Stony Brook, 1990, Professor. Functional analysis; operator algebras; index theory; global analysis; Non-commutative differential geometry. guihua.gong@upr.edu

Puhua Guan, PhD, Ohio State University, 1985, Professor. Symbolic computing; hypercube structure; cellular automata. puhua.guan@upr.edu

Heeralal Janwa, PhD, Syracuse University, 1986, Professor. Code theory; cryptography; applied algebra; algebraic geometry over finite fields; related computational problems. heeralal.janwa@upr.edu

Valentin Keyantuo, PhD, Université de Franche-Comté, 1992, Professor of Functional Analysis; Semigroups of Operators; Evolution Equations; Partial Differential Equations. valentin.keyantuo1@upr.edu

Liangqing Li, PhD, University of Toronto, 1995, Professor. Functional analysis; Operators Algebras. li.liangqing@upr.edu

Javier Luque, PhD, Massachusetts Institute of Technology, 1984, Professor. Continuous Nonlinear Optimization. fernando.rodilla@upr.edu

Luis A. Medina, PhD, Tulane University, 2008, Professor. Experimental mathematics, number theory, special functions. luis.medina17@upr.edu **Philip Pennance**, PhD, University of Puerto Rico, 1989, Professor. Discrete math. philip.pennance1@upr.edu

María Eglée Pérez, PhD, Universidad Central de Venezuela, 1994, Professor and Director. Bayesian Statistics; biostatistics. maria.perez34@upr.edu

Luis Raúl Pericchi, PhD, University of London, 1981, Professor. Mathematical statistics; applications of Bayesian statistical analysis; Computational statistics. luis.pericchi@upr.edu

Jorge Punchín, PhD, University of Delaware, 1978, Professor. Functional analysis; Partial and integral differential operators in non-homogeneous boundary problems. jorge.punchin@upr.edu

Ana H. Quintero, PhD, Massachusetts Institute of Technology, 1980, Professor. Mathematics education. ana.quintero1@upr.edu

Lin Shan, PhD, Vanderbilt University, 2007, Associate Professor. Index theory, geometric analysis. lin.shan@upr.edu

COLLABORATING TEACHING STAFF:

Pablo Negron, PhD, University of Maryland, College Park, 1985, Professor. Numerical Methods, Bifurcation Theory, Partial Differential Equations and their applications. Pablo.negron1@upr.edu

Fernando Piñero, PhD, Technical University of Denmark, 2015, Associate Professor, Code Theory, Information Theory, Cryptography, Computational Algebra. fernando.pinero1@upr.edu

Ivelisse Rubio, PhD, Cornell University, 1998, Professor. Computational algebra; Code theory, finite bodies. Ivelisse.rubio@upr.edu

Alejandro Vélez Santiago, PhD, University of Puerto Rico, Río Piedras, 2010, Associate Professor. Problems of elliptic and parabolic boundary values in non-differentiable domains, semigroups of operators, potential theory, fractal analysis, operator theory. alejandro.velez1@upr.edu

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. *Application for Admission to Graduate Studies* in electronic format through the *ApplyYourself* platform.
2. Three official transcripts of credits from all previous university studies of the applicant
3. Three *Recommendations for Graduate Studies*, at least two from professors who know the candidate's mathematical skills, in electronic or paper format.
4. Official evidence of a bachelor's degree in mathematics or its equivalent. You must have passed (or will be required to take) courses in Algebra and Analysis, including Linear Algebra, Modern Algebra, and Advanced Calculus; Courses in Computer Programming, Probability, and Statistics are recommended for the option of studies in applied mathematics.
5. Minimum overall academic index of 3.00 points on a 4.00 scale.
6. *Optional - GRE (Graduate Record Examination) Subject Test* - The Graduate Committee will take good results into consideration when recommending and awarding teaching and research assistantships. Conditional admission may be granted to a candidate who does not meet all the requirements if the Graduate Committee considers that the candidate is eligible to obtain a postgraduate degree once the conditions for admission have been met within a period of time determined by the Committee.

GRADUATION REQUIREMENTS:

1. Complete the 30 credit program requirements with a minimum average of 3.00 points.
2. Pass a degree exam
3. Successfully complete and defend the Master's Thesis.

PROGRAM OF STUDY:

On the date designated by the Committee, a placement exam will be offered in two areas, Algebra, including Linear Algebra, and Analysis (Advanced Calculus, including Multivariable Functions). It is recommended that all students take the exam, particularly those who plan to study in the Doctorate of Philosophy with a specialty in Mathematics.

Master's Degree in Pure Mathematics Program Requirements	Credits
Required Courses	18
MATE 6201 Modern Algebra I	3
MATE 6261 Real Variable Functions I	3
MATE 6301 Functions of a Complex Variable	3
MATE 6540 Introduction to Topology	3
MATE 6202 Modern Algebra II or MATE 6262 Real Variable Functions II or MATE 6551 Algebraic Topology I (At least one of the following two-semester sequences must be completed: MATE 6201-6202, MATE 6261-6262, MATE 6540-6551)	3
MATE 6800 Graduate Seminar	3
Targeted Selection Elective Courses	9
Degree Exam	0
Thesis	3
MATE 6996 Master's Thesis	3
MATE 6896 Continuation of Thesis	0
Total Credits	30

Master's Degree in Applied Mathematics Program Requirements	Credits
Required Courses	15
MATE 6601 Probability and Statistics I	3
MATE 6681 Data Structure I	3
MATE 6680 Computational Analysis I or MATE 6881 Linear Programming or MATE 6882 Optimization	3
MATE 6602 Probability and Statistics II, MATE 6682 Algorithms, MATE 6680 Computational Analysis I, MATE 6881 Linear Programming or MATE 6882 Optimization. (At least one of the following two-semester sequences must be completed: MATE 6601-6602, MATE 6881-6882, MATE 6681-6682)	3

Master's Degree in Applied Mathematics Program Requirements	Credits
MATE 6700 Projects in Applied Mathematics	3
Targeted Selection Elective Courses	12
Degree Exam	0
Thesis	3
MATE 6996 Master's Thesis	3
MATE 6896 Continuation of Thesis	0
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

MATE 6101 Number Theory I

Three credits.

Prerequisite: MATE 3040 Non-Analytic Theory. Congruence theory. Wilson and Euler's theorems and applications. Sum of two squares. Primitive roots. Law of quadratic reciprocity.

MATE 6201 Modern Algebra I

Three credits.

Prerequisite: MATE 4033 or equivalent Fundamentals of Abstract Algebra. Groups, rings, and bodies. Introduction to Galois theory.

MATE 6202 Modern Algebra II

Three credits.

Prerequisite: MATE 6201

Rings and Ideals. Quotient rings. Ring homomorphisms. Prime and maximal ideals. Null radical and Jacobson's radical. Module submodules, and quotient modules. finitely homomorphisms. Modules Modules, generated. Exact successions. Tensor product

of modules. Fraction rings and modula. Primary decomposition. Integrity domains.

MATE 6261 Real Variable Functions I

Three credits.

Prerequisite: MATE 5201 Review of the following topics: set theory, real numbers, completeness of real numbers, sequences and series, limits, and continuity. Metric and topological spaces. Compactness, connectedness and completeness. Succession of functions. Uniform continuity and uniform convergence. Differentiation. Riemann-Stieltjes integration. Measurement and integration of Lebesgue into the reals.

MATE 6262 Real Variable Functions II

Three credits.

Prerequisite: MATE 6261 Measurement Theory in Sigma Algebras. Interior and exterior measurement. Measurable functions. Convergence in measure. The Lebesgue integral of real functions of a real variable. The Radon-Nikodym theorem. Multiple integrals. Fubini's theorem. Lebesgue's theorem. L-Spaces. Convergence on the mean.

MATE 6301 Functions of Complex Variables

Three credits Prerequisite: MATE 4009 or equivalent.

Differentiation and integration of complex functions. Infinite series. Analytical functions. Analytical continuation. Multi-valued functions. Compliant applications.

MATE 6540 Introduction to Topology

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5201 Line and Plane Topology. Abstract topological spaces. Subspaces. Relative topology. Bases and subbases. Continuity. Topological equivalence. Metric spaces. Product topology. Quotient spaces. Axioms of separation. Hausdorff's spaces. Compact spaces. Related spaces. Full metric spaces. Function spaces.

MATE 6602 Probability and Statistics II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5002, MATE 6601 Principles of Statistical Sufficiency and the Principle of Likelihood Point estimation. Moments, Maximum Likelihood Estimators, Bayesian Estimates. Estimator evaluation methods based on loss functions and the risk function. Hypothesis testing. Type I and Type II errors. Power Function. Bayes factors. Optimal tests. P-Values. Estimation of confidence and probability intervals. Approximate methods and asymptotic evaluations. Introduction to Linear Models. Use of a statistical programming tool for data analysis. This course can combine face-to-face or online interaction.

MATE 6680 Computational Analysis

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4009, 4031, 5201, or permission from the department director. Introduction to the derivation and analysis of numerical methods. Numerical integration. Approximation of functions. Solution of equations. Self-value problems. Solution of differential equations. Optimization issues. This course can be combined with face-to-face or online interaction.

MATE 6681 Data Structure I

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5100 or equivalent.

Data structures with a combinatorial approach. Linear lists. Circular lists. Lists with two pointers. Trees. Binary trees. Applications to graphical representations by means of the computer, operations with polynomials, computer memory allocation, and compilers.

MATE 6682 Algorithms

Three credits. Three hours of lecture a week.

Prerequisite: MATE3034 or its equivalent.

Advanced methods of designing efficient algorithms: divide and conquer, dynamic programming, greedy methods, and random algorithms. Introduction to Algorithm Analysis: Asymptotic Notation and Amortized Analysis. Algorithms for graphs. Applications. Introduction of parallel algorithms. Np-completeness. In this course, face-to-face and online interaction can be combined.

MATE 6700 Projects in Applied Mathematics

Three credits.

Prerequisite: Permission from the head of the Department Introduction to Research in Applied Mathematics. Practice formulating real-life problems, in terms of a mathematical model and the consequent solution and reinterpretation of the solution, if it exists within the original context of the problem.

MATE 6800 Graduate Seminar

Three credits. Three hours of lecture a week.

Research seminar at an introductory level; Students are in charge of presenting material under the supervision of a faculty member. The topics to be discussed will be chosen by the participants.

MATE 6881 Linear Programming

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4031, MATE5201 Classic Linear Programming Examples. Elements of convex sets. Affinity and linear spaces; dimension; affine and convex sheaths; linear, affine, and projective transformations. Extreme subsets of closed convex sets. Linear programming problem, the set of feasible solutions, and the correspondence between basic and extreme solutions. The fundamental theorem of linear programming. The two-phase " *simplex* " method. Duality, weak and strong duality theorems. Variants of the "simplex" method, revised "simplex" method, and the *dual " simplex "*. Transportation problems and triangulation of bases. Transport algorithm and linear programming applications. In this course, face-to-face and online interaction can be combined.

MATE 6882 Optimization

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5201 Non-linear optimization problems, both unconstrained and constrained. Existing conditions for optimal values and basic numerical optimization methods are studied with their convergence analysis. Numerical methods, such as: basic descent methods, conjugate direction methods, near-Newton methods, reduced gradient methods, projected gradient methods, penalty methods

and Lagrange's barrier and methods. This course can be combined with face-to-face or online interaction.

MATE 6896 Continuation of Thesis

No credit.

Prerequisite: Have completed all course and research credit requirements for the master's degree.

This course allows those master's students who have completed the credit requirements in coursework and research to remain active students of the Campus while completing their thesis work.

MATE 6996 Thesis

From one to six credits.

Prerequisite: Permission from the advisor Study and research leading to the preparation of a thesis.

OTHER COURSE DESCRIPTIONS:**MATE 6102 Analytic Number Theory**

Three credits.

Prerequisite: MATE 6101 Introduction to Analytic Theory. Selberg and Erdos' methods. The Prime Number Theorem.

MATE 6150 Linear Algebra

Three credits.

Prerequisite: MATE 4031 Vector Spaces on Arbitrary Fields. Bases. Linear transformations. Arrays. Dual space. Vector spaces on the complex body. Elementary canonical forms. Canonical forms rational and Jordan. Spectrum of transformations. Tensor product. Bilinear shapes.

MATE 6180 Introduction to Homological Algebra

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6202 or equivalent.

Exact successions. Projective, injective and flat modules. Categories. Abelian categories. Functors. Resolutions. Homology. Homological dimension and applications.

MATE 6200 Group Theory

Three credits.

Prerequisite: MATE 4033 or equivalent Fundamental properties of groups.

and homomorphism. Free groups. Products Invariant subgroups. Isomorphism
of permutations. Transformation groups. Direct & Free of groups. Groups

MATE 6271 Mathematical Analysis I

Three credits. Three hours of lecture a week.

Prerequisite: Advanced Calculus II.

Introduction to logic and set theory. Vector spaces. Related subspaces. Bilinearity. Differential calculus in dimensional Euclidean space. Implicit function theorem. Taylor's formula. Compactness and completeness. Metric spaces. Spaces with scalar product. Orthogonal transformations. Compact transformations. Differential equations.

MATE 6272 Mathematical Analysis II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6271 Multilinear functions. Outer algebra. Integration into the Dimensional Euclidean space. Variable change formula. Integral calculus in manifolds. External calculation. Differential shapes. Stokes' theorem.

MATE 6400 Series

Three credits.

Prerequisite: MATE 5201 Series Study. Convergence and divergence criteria. Series operations. Bernoulli and Euler numbers. Fourier series.

MATE 6460 Introduction to Functional Analysis

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6540 and teacher's permission.

Fundamental concepts of normed spaces and Banach spaces. Hilbert Spaces. Weak convergence and closed transformations. Riesz-Schauder theory. Functions in Banach algebras. Spectral analysis in Hilbert spaces.

MATE 6530 Differential Metric Geometry

Three credits.

Prerequisite: Teacher's permission.

Curve theory. Frenet's formulas. Regular surfaces. The fundamental forms. Curvature. Euler's theorem. Codazzi-Mainardi equations. Conformal maps and isometries. Minimum and regulated surfaces. Fundamental Surface Theorem. Covariant derivatives. Geodesic. Gauss-Bonnet theorem

MATE 6545 Advanced Conjunct Topology

Three credits.

Prerequisite: MATE 6540 Urysohn's metrization theorem. Tychonoff's theorem. Completely regular spaces. Stone-Cech compactification. Full metric spaces. Compactness in metric spaces. Punctual and compact convergence. Open compact topology. Ascoli's theorem. Homotopy Theory. The fundamental group.

MATE 6551 Algebraic Topology I

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6540 and 6201 Study of topological problems using algebraic methods. Introduction to the theory of categories and functors, homological algebra and homotopy.

MATE 6552 Algebraic Topology II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6551 or instructor's permit.

Tensor products. Kunneth Relations. Cohomological products. Fixed-point theorems. Duality theorems for geometric manifolds.

MATE 6601 Probability and Statistics I

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5001 Sample Spaces, Axioms, and Elementary Probability Theorems. Combinatorics. Conditional probability and Bayes' theorem. Random variables. Mathematical expectation. Mean, variance, and moments of a random variable. Moment generator function. Chebychev's inequality, types of convergence, and the law of large numbers. The central limit theorem. Introduction to programming tools in statistics. Simulations and statistical programming will be used and transformations will be used. Introduction to elementary stochastic processes. This course can combine face-to-face or online interaction.

MATE 6605 Applied Stochastic Models

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6601 Applications of Stochastic Processes in Areas: Queuing Theory, Reliability, Inventories, Dynamic Population Decision Theory.

MATE 6606 Applied Stochastic Processes II

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6605 Row Theory. Single and multi-user rows. Fundamentals of Reliability Theory. Renewal processes. Semi-Markov processes. Regenerative processes. Applications to the theory of reliability.

MATE 6610 Sampling Theory

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6602 Sampling Probing Theory and Design. Simple random, stratified, systematic, and pooled samples. Proportionality of probability to sample size. Estimation of population parameters. Ratio, difference, and regression estimators. Use of Additional Information. Confidence intervals. Optimal selection of sample size. Definition of strata. Selection probabilities. Double sampling and repetitive probing. Errors, randomized response. Sufficiency principle in a sample probing model. Models of overpopulations.

MATE 6611 Linear Models I

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4031 or equivalent Basic theory of linear statistical models with an emphasis on mathematical foundations. Application of linear algebra especially in the consideration of the main topics: regression and analysis of variance.

MATE 6612 Linear Models II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6611 Design in totally random blocks and Latin squares. Fixed, random, and mixed models. Factorial experiments and confounded effects. Incomplete block designs. Response surfaces and analysis of covariance. Applications to data analysis.

MATE 6615 Decision Theory and Bayesian Analysis

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6601 Elements of Statistical Decision Theory. Frequentist and Bayesian decision theory. Bayesian analysis: estimation, hypothesis testing, model selection, informative and non-informative a priori distributions. Bayesian approximations and calculations. Monte Carlo Markov Chain (MCMC) methods. Introduction to Hierarchical Linear Models, Dynamic Models, and Generalized Linear Models.

MATE 6650 Applied Linear Algebra

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4031 or its equivalent Finite Dimensional Vector Spaces. Matrix algebra. Systems of linear equations. Rank. Reverse. Own values. Linear programming. Canonical forms and applications.

MATE 6656 Applied Algebra

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4033 or equivalent introduction to concepts from the theory of semigroups, groups, rings, fields, and Boolean algebras. Applications to code theory, symmetry groups, Polya counting theory, machine theory.

MATE 6685 Computers and Their Application to Science

Three credits. Three hours of lecture and three hours of laboratory time per week.

Prerequisite: For Biology graduate students only. Troubleshooting through the use of personal computers and Mainframe. Programming with the most commonly used computer languages. Programs to solve modeling and statistical problems. Interactive and batch accessibility is considered.

MATE 6686 Experimental Design and Advanced Data Analysis

Three credits. Three hours of lecture and two hours of laboratory time per week.

Prerequisite: MATE 3026 This is a multidisciplinary course in which the student will be introduced to the most commonly used methods in the areas of Experimental Design and Statistical Data Analysis and their application to disciplines such as biology and chemistry, among others. Students will use computer analysis to increase their understanding and mastery of the techniques acquired in the course.

MATE 6690 Computational Analysis II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6680 Approximation of functions. Numerical differentiation and integration. Numerical Methods for Ordinary Differential Equations: Initial Value Problems and Boundary Problems. Numerical methods for partial differential equations.

MATE 6990 Independent Studios

One to three credits. It can be taken up to a maximum of three credits.

Research on a topic of interest through individual readings, informal discussions, presentation of topics under the supervision of a faculty member.

MATE 8001 Graph Theory I

Three credits. Three hours of lecture a week.

Review of elementary graph theory. Trees. Matrix tree theorem. Enumeration of expansive trees in a graph. Graph decompositions. Connectedness
y 3-Connection of graphs. Disjunct paths and connection of graphs. Menger's theorems and Whitney. Assembling and disassembling graphs for 3-connected and quasi-4-connected graphs. Several Euler problems. Hamilton cycles. The k -closure of a graph. Bondy-Chvatal theorem. Long cycles in a graph. Dirac's theorem. Factors. Maximum and perfect pairings. Tutte's and Edmonds-Gallai's theorems. Berge-Tutte duality theorem. Perfect graphs. Lovasz's theorem. Coloring edges. Vizing's theorem. Independent sets. Vertex coloring. Brook's theorem.

Insertion of graphs in the drawing. Planarity criteria from Kuratowski, Whitney, MacLane, and Kelmans. Five- and four-color theorems for planar graphs. About the Hamiltoniness of planar graphs.

MATE 8005 Enumerative Combinatorics I

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6150, MATE 6201, MATE 8001 (Graph Theory) Elementary combinatorics review. Outline of the main problems and approaches of enumerative combinatorics. Listing trees. Matrix tree theorem. Coding trees. Counting Euler cycles in a graph. Counting and listing of non-isomorphic trees of different types. Method of the generative function in enumerative combinatorics. Listing graphs of different types. Polya's counting theory for non-isomorphic objects. Listing non-isomorphic graphs of different types. Principle of inclusion and exclusion. Reticulates, their Möbius functions and Möbius algebras. Asymptotic results in enumerative combinatorics.

MATE 8015 Discrete Algorithms

Three credits. Three hours of lecture a week.

Prerequisites: Graph Theory Branching and Bounding Strategy. Principle of dynamic programming. Optimal paths in graphs. Optimal expansive trees in graphs. 2-Coloring and odd cycles in a graph. First-depth search in a graph and its applications. Properties of a tree, first-depth search. Graph decomposition algorithms. Graph assembly algorithms. Graph planarity algorithms. Euler's problems. Hamiltonian problems: some packing and covering problems for graphs. Metric problems in graphs. Set transformation algorithms. Search trees of different types. Some sorting algorithms. Main ideas of NP Theory (The Complexity of Problem Theory).

MATE 8021 Algebraic Combinatorics I

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6202, MATE 8001 Linear codes. Binary codes to correct t-errors and finite bodies. Cyclic codes. Perfect codes. Block designs. Latin squares. Pairwise balanced designs. Hadamard's matrix. Sets difference. Symmetrical designs. Finite geometries. Singer's theorem. Transverse designs. Layouts divisible by groups. Steiner's triple systems. Kirkman's triple systems. Strongly regular graphs. Partnership schemes. Regular-distance graphs. Transitivity.

MATE 8031 Combinatorial Optimization I

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6881, MATE 8001 (Graph Theory I) Elements of linear and integral programming: branching and dimensioning method and its application to combinatorial optimization problems. Network flow theory and its generalizations: maximum statistical flow, feasibility theorems and combinatorial applications, minimum cost flow problems, maximum multi-terminal flows, multi-item flows. Matching theory and its generalizations: matching in bipartite graphs, size

and structure of maximum pairings, bipartite graphs with perfect pairings, general graphs with perfect pairings, some grapho-theoretical problems related to pairings, pairings and linear programming, matching algorithms, the f -factor problem, packing of vertices and covers, some generalizations of matching problems.

MATE 8041 Matroid Theory I

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6150, MATE 8001 (Graph Theory I) Fundamental concepts and axioms of matroid theory. Duality in matroids and operations with matroids. Vector representations of matroids. The matroid of a graph and planarity of graphs. Greedy algorithms for matroids. The Bonding of Matroids and its range function. Efficient algorithms for some combinatorial optimization problems (packing, coating, intersection, etc.) for matroids with applications to a variety of combinatorial objects (e.g. graphs, matrices, algebraic dependencies, cross-sectional).

MATE 8051 Convex Polytopes I

Credits: 3 Three credits. Three hours of lecture a week.

Prerequisite: MATE 6150 Basic concepts of linear and affine geometry. Convex assemblies and their supporting properties. Support hyperplanes. The theorems of Radon, Nelly, and Caratheodory. Convex polytopes and their faces. Polarity and duality in convex polytopes. Cell complexes and Schlegel diagrams. Unraveling the complexes of the border. Cubic complexes. The graph of a d -polytope and its properties. Three-polytopes and Steinitz's theorem. Related and projective transformations. The fundamental theorem of projective geometry. Simplicial and simple polytopes. Euler's theorem and the Dehn-Sommerville equations. Lower and upper bound theorems for convex polytopes.

MATE 8309 Complex Analysis II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6301 Analytical Continuation. Algebraic functions. Elliptical functions. Integer and meromorphic functions. Normal families. Compliant transformations.

MATE 8465 Spectral Theory and Differential Equations

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6460, MATE 8469 (Functional Analysis II).

Unbounded operators. Symmetrical graphs and operators. The self-attached property. Cayley's transforms. Symmetric operator extensions. Identity resolutions and the spectral theorem. Stone's theorem. Introduction to distributions. Sobolev spaces. Variational methods. Laplace's operator. The heat equation.

MATE 8469 Functional Analysis II

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6460 Banach Algebras. Commutative Banach algebras. Bounded operators in Hilbert spaces. Topological vector spaces. Duality. Compact operators. Distributions and their applications to the theory of partial differential equations.

MATE 8605 Simulation and the Monte Carlo Method

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6606 (Applied Stochastic Processes II) Random number generation. Generation of random variables. Monte Carlo methods of integration. Variance reduction techniques. Simulation of stochastic processes. Regenerative methods for simulation analysis. Simulation of queuing systems. Monte Carlo methods of optimization. Simulation languages. Statistical evaluation of simulation results. Monte Carlo Markov Chain (MCMC) methods. Gibbs sampler. Metropolis-Hastings algorithm. Applications.

MATE 8680 Interactive Solution of Systems of Nonlinear Equations

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6680, MATE 6690 (Computational Analysis II) Gateaux and Frechet derivatives. Mean-value theorems and second derivatives. Contractions. Inverse and implicit function theorems. Sard's theorem. Monotonous operators. Theory of degrees. Properties of degree and basic existence theorems. General iterative methods. Newtonian and Secant Methods and Generalizations. Continuation methods. Pre-doctor-corrective methods. Number bifurcation theory.

MATE 8685 Parallel Algorithms - Design and Analysis

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6682 Parallel Architecture Classifications. Parallel computation models. Models of interconnection networks such as arrays, trees, and hypercubes. Measures to determine how efficient and scalable a parallel algorithm is. Parallel algorithm design techniques. Primitives for the design of parallel algorithms. Efficient parallel algorithms for integer and matrix arithmetic, fast Fourier transform, ordering problems, and graphs. Adaptation of algorithms for different network models. Data routing algorithms.

MATE 8800 Doctoral Seminar

Three credits. Three hours of lecture a week.

Advanced seminar in research areas related to the doctoral program.

MATE 8899 Continuation of Doctoral Dissertation

No credit. Three hours of dissertation per week.

This course will allow students in the doctoral program who have completed the credit requirements in coursework and research to remain active students while completing dissertation work.

MATE 8980 Topics in Applied Mathematics

One to three credits.

Prerequisite: Permission from the department director.

Topics will be selected according to the interests and availability of faculty and students.

MATE 8985 Pure Math Topics

One to three credits.

Prerequisite: Permission from the department director.

Topics will be selected according to the interests and availability of faculty and students.

MATE 8986 Discrete Math Topics

one to three credits.

Prerequisite: Permission from the department director.

Topics will be selected according to the interests and availability of faculty and students.

MATE 8990 Topic in Applied Mathematics

One to three credits.

Prerequisite: Permission from the instructor or department director.

Topics will be set according to faculty and student interest and availability.

MATE 8995 Computational Mathematics Topics

One to three credits.

Prerequisite: Permission from the instructor or department chair.

Topics will be selected according to faculty and student interest and availability.

MATE 8999 Doctoral Dissertation

One to three credits.

Prerequisite: Permission from the Graduate Program Coordinator.

Study and research leading to the preparation of the doctoral dissertation.



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Alejandro Vélez Santiago, PhD, University of Puerto Rico, Río Piedras, 2010, Associate Professor. Problems of elliptic and parabolic boundary values in non-differentiable domains, semigroups of operators, potential theory, fractal analysis, operator theory. alejandrovalez1@upr.edu

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Doctoral Programme

Students will need to meet the following specific requirements:

1. *Application for Admission to Graduate Studies* in electronic format through the *ApplyYourself* platform.
2. Three official copies of academic transcripts that include all university-level studies completed.
3. Three *Recommendations for Graduate Studies*, at least two from professors who know the candidate's mathematical skills, in electronic or paper format.
4. Official evidence of a bachelor's degree in mathematics or its equivalent. You must have passed or will be required to pass the equivalent of at least one semester of Linear Algebra, two semesters of Modern Algebra, and two semesters of Advanced Calculus. Aptitudes are demonstrated by passing a placement exam or passing with B or A the corresponding courses in Algebra (MATE 5101-5102) and Analysis (MATE 5301-5302).
5. Minimum overall academic index of 3.00 points on a 4.00 scale.
6. Official results of the *GRE (Graduate Record Examination) Subject Test* in Mathematics.
- 7.

GRADUATION REQUIREMENTS:

1. Comply with the general requirements for graduation in force at the Río Piedras Campus.
2. Pass all required courses totaling a minimum of 69 credit hours (54 credits in required and suggested courses, 6 credits in electives related to the doctoral dissertation, 3 credits in a master's seminar, 3 credits in a doctoral seminar and 3 credits in the doctoral dissertation) with a minimum average of 3.00 points.
3. Pass the doctoral level degree exam in three areas: Analysis, Algebra and in the student's area of specialization.
4. Pass the oral examination for candidacy for the doctoral degree.
5. To be admitted as candidates for the degree of Doctor of Philosophy. Prior to applying for candidacy, students must demonstrate their aptitude and knowledge of the Spanish and English languages, maintain a minimum average of 3.00 points on a scale of 4.00 points, pass the doctoral level degree exam and pass the oral exam for candidacy to the doctoral degree.

6. Write an original research dissertation, which must be publicly defended.
7. Submit the approved official dissertation to the Department of Mathematics.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	15
Specialty Courses	39
Specialty Elective Courses	6
Master's Seminar	3
MATE 8800 Doctoral Seminar	3
Candidacy Examination	0
Degree Exam	0
MATE 8999 Doctoral Dissertation	1-3
MATE 8899 Continuation of Doctoral Dissertation	0
Total Credits	69

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

MATE 8800 Doctoral Seminar

Three credits. Three hours of lecture a week.

Advanced seminar in research areas related to the doctoral program.

MATE 8999 Doctoral Dissertation

One to three credits.

Prerequisite: Permission from the Graduate Program Coordinator.

Study and research leading to the preparation of the doctoral dissertation.

MATE 8899 Continuation of Doctoral Dissertation

No credit. Three hours of dissertation per week.

This course will allow students in the doctoral program who have completed the credit requirements in coursework and research to remain active students while completing dissertation work.

OTHER COURSE DESCRIPTIONS:

MATE 6101 Number Theory I

Three credits.

Prerequisite: MATE 3040 Non-Analytic Theory. Congruence theory. Wilson and Euler's theorems and applications. Sum of two squares. Primitive roots. Law of quadratic reciprocity.

MATE 6102 Analytic Number Theory

Three credits.

Prerequisite: MATE 6101 Introduction to Analytic Theory. Selberg and Erdos' methods. The Prime Number Theorem.

MATE 6150 Linear Algebra

Three credits.

Prerequisite: MATE 4031 Vector Spaces on Arbitrary Fields. Bases. Linear transformations. Arrays. Dual space. Vector spaces on the complex body. Elementary canonical forms. Canonical forms rational and Jordan. Spectrum of transformations. Tensor product. Bilinear shapes.

MATE 6180 Introduction to Homological Algebra

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6202 or equivalent.

Exact successions. Projective, injective and flat modules. Categories. Abelian categories. Functors. Resolutions. Homology. Homological dimension and applications.

MATE 6200 Group Theory

Three credits.

Prerequisite: MATE 4033 or equivalent

Fundamental properties of groups.

isomorphism. Free groups. Products

permutations. Transformation groups.

Invariant subgroups. Homomorphic and
direct and free of groups. Groups

MATE 6201 Modern Algebra I

Three credits.

Prerequisite: MATE 4033 or equivalent Fundamentals of Abstract Algebra. Groups, rings, and bodies. Introduction to Galois theory.

MATE 6202 Modern Algebra II

Three credits.

Prerequisite: MATE 6201

Rings and Ideals. Quotient rings. Ring homomorphisms. Prime and maximal ideals. Null radical and Jacobson's radical. Module submodules, and quotient modules. finitely homomorphisms. Modules Modules, generated. Exact successions. Tensor product of modules. Fraction rings and modula. Primary decomposition. Integrity domains.

MATE 6261 Real Variable Functions I

Three credits.

Prerequisite: MATE 5201 Review of the following topics: set theory, real numbers, completeness of real numbers, sequences and series, limits, and continuity. Metric and topological spaces. Compactness, connectedness and completeness. Succession of functions. Uniform continuity and uniform convergence. Differentiation. Riemann-Stieltjes integration. Measurement and integration of Lebesgue into the reals.

MATE 6262 Real Variable Functions II

Three credits.

Prerequisite: MATE 6261 Measurement Theory in Sigma Algebras. Interior and exterior measurement. Measurable functions. Convergence in measure. The Lebesgue integral of real functions of a real variable. The Radon-Nikodym theorem. Multiple integrals. Fubini's theorem. Lebesgue's theorem. L-Spaces. Convergence on the mean.

MATE 6271 Mathematical Analysis I

Three credits. Three hours of lecture a week.

Prerequisite: Advanced Calculus II.

Introduction to logic and set theory. Vector spaces. Related subspaces. Bilinearity. Differential calculus in dimensional Euclidean space. Implicit function theorem. Taylor's formula. Compactness and completeness. Metric spaces. Spaces with scalar product. Orthogonal transformations. Compact transformations. Differential equations.

MATE 6272 Mathematical Analysis II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6271 Multilinear functions. Outer algebra. Integration into the Dimensional Eclidean space. Variable change formula. Integral calculus in manifolds. External calculation. Differential shapes. Stokes' theorem.

MATE 6301 Functions of Complex Variables

Three credits Prerequisite: MATE 4009 or equivalent.

Differentiation and integration of complex functions. Infinite series. Analytical functions. Analytical continuation. Multi-valued functions. Compliant applications.

MATE 6400 Series

Three credits.

Prerequisite: MATE 5201 Series Study. Convergence and divergence criteria. Series operations. Bernoulli and Euler numbers. Fourier series.

MATE 6460 Introduction to Functional Analysis

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6540 and teacher's permission.

Fundamental concepts of normed spaces and Banach spaces. Hilbert Spaces. Weak convergence and closed transformations. Riesz-Schauder theory. Functions in Banach algebras. Spectral analysis in Hilbert spaces.

MATE 6530 Differential Metric Geometry

Three credits.

Prerequisite: Teacher's permission.

Curve theory. Frenet's formulas. Regular surfaces. The fundamental forms. Curvature. Euler's theorem. Codazzi-Mainardi equations. Conformal maps and isometries. Minimum and regulated surfaces. Fundamental Surface Theorem. Covariant derivatives. Geodesic. Gauss-Bonnet theorem

MATE 6540 Introduction to Topology

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5201 Line and Plane Topology. Abstract topological spaces. Subspaces. Relative topology. Bases and subbases. Continuity. Topological equivalence. Metric spaces. Product topology. Quotient spaces. Axioms of separation. Hausdorff's spaces. Compact spaces. Related spaces. Full metric spaces. Function Spaces

MATE 6545 Advanced Conjoint Topology

Three credits.

Prerequisite: MATE 6540 Urysohn's metrization theorem. Tychonoff's theorem. Completely regular spaces. Stone-Cech compactification. Full metric spaces. Compactness in metric spaces. Punctual and compact convergence. Open compact topology. Ascoli's theorem. Homotopy Theory. The fundamental group.

MATE 6551 Algebraic Topology I

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6540 and 6201 Study of topological problems using algebraic methods. Introduction to the theory of categories and functors, homological algebra and homotopy.

MATE 6552 Algebraic Topology II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6551 or instructor's permit.

Tensor products. Kunneth Relations. Cohomological products. Fixed-point theorems. Duality theorems for geometric manifolds.

MATE 6601 Probability and Statistics I

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5001 Sample Spaces, Axioms, and Elementary Probability Theorems. Combinatorics. Conditional probability and Bayes' theorem. Random variables.

Mathematical expectation. Mean, variance, and moments of a random variable. Moment generator function. Chebychev's inequality, types of convergence, and the law of large numbers. The central limit theorem. Introduction to programming tools in statistics.

Simulations and statistical programming will be used and transformations will be used.

Introduction to elementary stochastic processes. This course can combine face-to-face or online interaction.

MATE 6602 Probability and Statistics II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5002, MATE 6601 Principles of Statistical Sufficiency and the Principle of Likelihood Point estimation. Moments, Maximum Likelihood Estimators, Bayesian Estimates. Estimator evaluation methods based on loss functions and the risk function.

Hypothesis testing. Type I and Type II errors. Power Function. Bayes factors. Optimal tests. P-Values. Estimation of confidence and probability intervals. Approximate methods and asymptotic evaluations. Introduction to Linear Models. Use of a statistical programming tool for data analysis. This course can combine face-to-face or online interaction.

MATE 6605 Applied Stochastic Models

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6601 Applications of Stochastic Processes in Areas: Queuing Theory, Reliability, Inventories, Dynamic Population Decision Theory.

MATE 6606 Applied Stochastic Processes II

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6605 Row Theory. Single and multi-user rows. Fundamentals of Reliability Theory. Renewal processes. Semi-Markov processes. Regenerative processes. Applications to the theory of reliability.

MATE 6610 Sampling Theory

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6602 Sampling Probing Theory and Design. Simple random, stratified, systematic, and pooled samples. Proportionality of probability to sample size. Estimation of population parameters. Ratio, difference, and regression estimators. Use of Additional Information. Confidence intervals. Optimal selection of sample size. Definition of strata. Selection probabilities. Double sampling and repetitive probing. Errors, randomized response. Sufficiency principle in a sample probing model. Models of overpopulations.

MATE 6611 Linear Models I

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4031 or equivalent Basic theory of linear statistical models with an emphasis on mathematical foundations. Application of linear algebra especially in the consideration of the main topics: regression and analysis of variance.

MATE 6612 Linear Models II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6611 Design in totally random blocks and Latin squares. Fixed, random, and mixed models. Factorial experiments and confounded effects. Incomplete block designs. Response surfaces and analysis of covariance. Applications to data analysis.

MATE 6615 Decision Theory and Bayesian Analysis

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6601 Elements of Statistical Decision Theory. Frequentist and Bayesian decision theory. Bayesian analysis: estimation, hypothesis testing, model selection, informative and non-informative a priori distributions. Bayesian approximations and calculations. Monte Carlo Markov Chain (MCMC) methods. Introduction to Hierarchical Linear Models, Dynamic Models, and Generalized Linear Models.

MATE 6650 Applied Linear Algebra

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4031 or its equivalent Finite Dimensional Vector Spaces. Matrix algebra. Systems of linear equations. Rank. Reverse. Own values. Linear programming. Canonical forms and applications.

MATE 6656 Applied Algebra

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4033 or equivalent Introduction to concepts from the theory of semigroups, groups, rings, fields, and Boolean algebras. Applications to code theory, symmetry groups, Polya counting theory, machine theory.

MATE 6680 Computational Analysis

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4009, 4031, 5201, or permission from the department director. Introduction to the derivation and analysis of numerical methods. Numerical integration. Approximation of functions. Solution of equations. Self-value problems. Solution of differential equations. Optimization issues. This course can be combined with face-to-face or online interaction.

MATE 6681 Data Structure I

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5100 or equivalent.

Data structures with a combinatorial approach. Linear lists. Circular lists. Lists with two pointers. Trees. Binary trees. Applications to graphical representations by means of the computer, operations with polynomials, computer memory allocation, and compilers.

MATE 6682 Algorithms

Three credits. Three hours of lecture a week.

Prerequisite: MATE3034 or its equivalent.

Advanced methods of designing efficient algorithms: divide and conquer, dynamic programming, greedy methods, and random algorithms. Introduction to Algorithm Analysis: Asymptotic Notation and Amortized Analysis. Algorithms for graphs. Applications. Introduction of parallel algorithms. Np-completeness. In this course, face-to-face and online interaction can be combined.

MATE 6685 Computers and Their Application to Science

Three credits. Three hours of lecture and three hours of laboratory time per week. Prerequisite: For Biology graduate students only.

Troubleshooting through the use of personal computers and Mainframe. Programming with the most commonly used computer languages. Programs to solve modeling and statistical problems. Interactive and batch accessibility is considered.

MATE 6686 Experimental Design and Advanced Data Analysis

Three credits. Three hours of lecture and two hours of laboratory time per week.

Prerequisite: MATE 3026 This is a multidisciplinary course in which the student will be introduced to the most commonly used methods in the areas of Experimental Design and Statistical Data Analysis and their application to disciplines such as biology and chemistry, among others. Students will use computer analysis to increase their understanding and mastery of the techniques acquired in the course.

MATE 6690 Computational Analysis II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6680 Approximation of functions. Numerical differentiation and integration. Numerical Methods for Ordinary Differential Equations: Initial Value Problems and Boundary Problems. Numerical methods for partial differential equations.

MATE 6700 Projects in Applied Mathematics

Three credits.

Prerequisite: Permission from the head of the Department Introduction to Research in Applied Mathematics. Practice formulating real-life problems, in terms of a mathematical model and the consequent solution and reinterpretation of the solution, if it exists within the original context of the problem.

MATE 6800 Graduate Seminar

Three credits. Three hours of lecture a week.

Research seminar at an introductory level; Students are in charge of presenting material under the supervision of a faculty member. The topics to be discussed will be chosen by the participants.

MATE 6881 Linear Programming

Three credits. Three hours of lecture a week.

Prerequisite: MATE 4031, MATE5201 Classic Linear Programming Examples. Elements of convex sets. Affinity and linear spaces; dimension; affine and convex sheaths; linear, affine, and projective transformations. Extreme subsets of closed convex sets. Linear programming problem, the set of feasible solutions, and the correspondence between basic and extreme solutions. The fundamental theorem of linear programming. The two-phase " *simplex* " method. Duality, weak and strong duality theorems. Variants of the "simplex" method, revised "simplex" method, and the *dual "simplex"* . Transportation problems and triangulation of bases. Transport algorithm and linear programming applications. In this course, face-to-face and online interaction can be combined.

MATE 6882 Optimization

Three credits. Three hours of lecture a week.

Prerequisite: MATE 5201, Nonlinear optimization problems, both unconstrained and constrained. Existing conditions for optimal values and basic numerical optimization methods are studied with their convergence analysis. Numerical methods, such as: basic descent methods, conjugate direction methods, near-Newton methods, reduced gradient methods, projected gradient methods, penalty methods

and Lagrange's barrier and methods. This course can be combined with face-to-face or online interaction.

MATE 6896 Continuation of Thesis

No credit.

Prerequisite: Have completed all course and research credit requirements for the master's degree.

This course allows those master's students who have completed the credit requirements in coursework and research to remain active students of the Campus while completing their thesis work.

MATE 6990 Independent Studios

One to three credits. It can be taken up to a maximum of three credits.

Research on a topic of interest through individual readings, informal discussions, presentation of topics under the supervision of a faculty member.

MATE 6996 Thesis

From one to six credits.

Prerequisite: Permission from the advisor Study and research leading to the preparation of a thesis.

MATE 8001 Graph Theory I

Three credits. Three hours of lecture a week.

Review of elementary graph theory. Trees. Matrix tree theorem. Enumeration of expansive trees in a graph. Graph decompositions. Connectedness
y 3-Connection of graphs. Disjunct paths and connection of graphs. Menger's theorems and Whitney. Assembling and disassembling graphs for 3-connected and quasi-4-connected graphs. Several Euler problems. Hamilton cycles. The k-closure of a graph. Bondy-Chvatal theorem. Long cycles in a graph. Dirac's theorem. Factors. Maximum and perfect pairings. Tutte's and Edmonds-Gallai's theorems. Berge-Tutte duality theorem. Perfect graphs. Lovasz's theorem. Coloring edges. Vizing's theorem. Independent sets. Vertex coloring. Brook's theorem. Insertion of graphs in the drawing. Planarity criteria from Kuratowski, Whitney, MacLane, and Kelmans. Five- and four-color theorems for planar graphs. About the Hamiltoniness of planar graphs.

MATE 8005 Enumerative Combinatorics I

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6150, MATE 6201, MATE 8001 (Graph Theory) Elementary combinatorics review. Outline of the main problems and approaches of enumerative combinatorics. Listing trees. Matrix tree theorem. Coding trees. Counting Euler cycles in a graph. Counting and listing of non-isomorphic trees of different types. Method of the generative function in enumerative combinatorics. Listing graphs of different types. Polya's counting theory for non-isomorphic objects. Listing non-isomorphic graphs of different types. Principle of inclusion and exclusion. Reticulates, their Möbius functions and Möbius algebras. Asymptotic results in enumerative combinatorics.

MATE 8015 Discrete Algorithms

Three credits. Three hours of lecture a week.

Prerequisites: Graph Theory Branching and Bounding Strategy. Principle of dynamic programming. Optimal paths in graphs. Optimal expansive trees in graphs. 2-Coloring and odd cycles in a graph. First-depth search in a graph and its applications. Properties of a tree, first-depth search. Graph decomposition algorithms. Graph assembly algorithms. Graph planarity algorithms. Euler's problems. Hamiltonian problems: some packing and covering problems for graphs. Metric problems in graphs. Set transformation algorithms. Search trees of different types. Some sorting algorithms. Main ideas of NP Theory (The Complexity of Problem Theory).

MATE 8021 Algebraic Combinatorics I

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6202, MATE 8001 Linear codes. Binary codes to correct t-errors and finite bodies. Cyclic codes. Perfect codes. Block designs. Latin squares. Pairwise balanced designs. Hadamard's matrix. Sets difference. Symmetrical designs. Finite geometries. Singer's theorem. Transverse designs. Layouts divisible by groups. Steiner's triple systems. Kirkman's triple systems. Strongly regular graphs. Partnership schemes. Regular-distance graphs. Transitivity.

MATE 8031 Combinatorial Optimization I

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6881, MATE 8001 (Graph Theory I) Elements of linear and integral programming: branching and dimensioning method and its application to combinatorial optimization problems. Network flow theory and its generalizations: maximum statistical flow, feasibility theorems and combinatorial applications, minimum cost flow problems, maximum multi-terminal flows, multi-item flows. Matching theory and its generalizations: matching in bipartite graphs, size and structure of maximum pairings, bipartite graphs with perfect pairings, general graphs with perfect pairings, some grapho-theoretical problems related to pairings, pairings and linear programming, matching algorithms, the f-factor problem, packing of vertices and covers, some generalizations of matching problems.

MATE 8041 Matroid Theory I

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6150, MATE 8001 (Graph Theory I) Fundamental concepts and axioms of matroid theory. Duality in matroids and operations with matroids. Vector representations of matroids. The matroid of a graph and planarity of graphs. Greedy algorithms for matroids. The binding of matroids and their rank function. Efficient algorithms for some combinatorial optimization problems (packing, coating, intersection, etc.) for matroids with applications to a variety of combinatorial objects (e.g. graphs, matrices, algebraic dependencies, cross-sectional).

MATE 8051 Convex Polytopes I

Credits: 3 Three credits. Three hours of lecture a week.

Prerequisite: MATE 6150 Basic concepts of linear and affine geometry. Convex assemblies and their supporting properties. Support hyperplanes. The theorems of Radon, Nelly, and Caratheodory. Convex polytopes and their faces. Polarity and duality in convex polytopes. Cell complexes and Schlegel diagrams. Unraveling the complexes of the border. Cubic complexes. The graph of a d -polytope and its properties. Three-polytopes and Steinitz's theorem. Related and projective transformations. The fundamental theorem of projective geometry. Simplicial and simple polytopes. Euler's theorem and the Dehn-Sommerville equations. Lower and upper bound theorems for convex polytopes.

MATE 8309 Complex Analysis II

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6301 Analytical Continuation. Algebraic functions. Elliptical functions. Integer and meromorphic functions. Normal families. Compliant transformations.

MATE 8465 Spectral Theory and Differential Equations

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6460, MATE 8469 (Functional Analysis II).

Unbounded operators. Symmetrical graphs and operators. The self-attached property. Cayley's transforms. Symmetric operator extensions. Identity resolutions and the spectral theorem. Stone's theorem. Introduction to distributions. Sobolev spaces. Variational methods. Laplace's operator. The heat equation.

MATE 8469 Functional Analysis II

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6460 Banach Algebras. Commutative Banach algebras. Bounded operators in Hilbert spaces. Topological vector spaces. Duality. Compact operators. Distributions and their applications to the theory of partial differential equations.

MATE 8605 Simulation and the Monte Carlo Method

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6606 (Applied Stochastic Processes II) Random number generation. Generation of random variables. Monte Carlo methods of integration. Variance reduction techniques. Simulation of stochastic processes. Regenerative methods for simulation analysis. Simulation of queuing systems. Monte Carlo methods of optimization. Simulation languages. Statistical evaluation of simulation results. Monte Carlo Markov Chain (MCMC) methods. Gibbs sampler. Metropolis-Hastings algorithm. Applications.

MATE 8680 Interactive Solution of Systems of Nonlinear Equations

Three credits. Three hours of lecture a week.

Prerequisites: MATE 6680, MATE 6690 (Computational Analysis II) Gateaux and Frechet derivatives. Mean-value theorems and second derivatives. Contractions. Inverse and implicit function theorems. Sard's theorem. Monotonous operators. Theory of degrees. Properties of degree and basic existence theorems. General iterative methods. Newtonian and Secant Methods and Generalizations. Continuation methods. Pre-doctor-corrective methods. Number bifurcation theory.

MATE 8685 Parallel Algorithms - Design and Analysis

Three credits. Three hours of lecture a week.

Prerequisite: MATE 6682 Parallel Architecture Classifications. Parallel computation models. Models of interconnection networks such as arrays, trees, and hypercubes. Measures to determine how efficient and scalable a parallel algorithm is. Parallel algorithm design techniques. Primitives for the design of parallel algorithms. Efficient parallel algorithms for integer and matrix arithmetic, fast Fourier transform, ordering problems, and graphs. Adaptation of algorithms for different network models. Data routing algorithms.

MATE 8980 Pure Math Topics

One to three credits.

Prerequisite: Permission from the department director. Topics will be selected according to the interests and availability of faculty and students.

MATE 8985 Pure Math Topics

One to three credits.

Prerequisite: Permission from the department director.

Topics will be selected according to the interests and availability of faculty and students.

MATE 8986 Discrete Math Topics

One to three credits.

Prerequisite: Permission from the department director.

Topics will be selected according to the interests and availability of faculty and students.

MATE 8990 Topic in Applied Mathematics

One to three credits.

Prerequisite: Permission from the Director of the Department.

Topics will be selected according to the interests and availability of faculty and students.

MATE 8995 Computational Mathematics Topics

One to three credits.

Prerequisite: Permission from the instructor or department chair.

Topics will be selected according to faculty and student interest and availability.



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Xianyong Wu. Ph.D. Wuhan University, 2016, Assistant Professor. Analytical chemistry. Energy storage, batteries and electrochemistry. xianyong.wu@upr.edu

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Master's Program in Chemistry

1. *Application for Admission to Graduate Studies* in electronic format through the *ApplyYourself* platform.
2. Transfer, readmission, or reclassification forms as needed.
3. Two (2) transcripts of official credits that include degree certification.
4. The result of the TOEFL (foreign students).
5. Two (2) letters of recommendation from professors at the university from which you obtained your master's or baccalaureate degree.
6. A Statement of Purpose essay indicating the student's interest in pursuing graduate studies.
7. Attend an interview (optional, at the request of the Admissions Committee).

GRADUATION REQUIREMENTS:

1. Comply with the general requirements for graduation in force at the Río Piedras Campus.
2. Courses: complete a minimum of 30 credits in graduate courses which must be distributed as follows: 9 credits in core graduate courses, 9 credits in electives at the 8000 level, 2 credits in chemistry program seminar, 4 research seminar credits, and 6 research credits.
3. Master's Thesis Proposal: present a plan of your research work to your Thesis Committee, which will eventually be the work of your thesis.
4. Research Progress Report.
5. Specialty Research Seminar: Enroll in and attend seminars of your research group each academic semester. These credits are in addition to the 30 required for the degree. You must pass a minimum of 4 credits in the course corresponding to your area of research.
6. Graduate Research: take a minimum of 6 credits in graduate research. Based on this work, you must write and defend a master's thesis acceptable to the Department of Chemistry.
7. Seminar: A graduate seminar of the student's satisfactorily approved Master's thesis oral presentation must be submitted to the Graduate Faculty.
8. Maintain a GPA of 3.0 or higher.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	9
Electives (6000 or 8000 level)	9
QUIM 6905-6906 Principles and Practices of Chemistry *It is not a requirement for the degree but it is a requirement if you participate in the Teaching Assistant program	6*
QUIM 6999 Rotation	0
Thesis Proposal	0
QUIM 8901-8902 Graduate Seminar I & II	2
QUIM 8xxx Specialty Research Seminar	4
QUIM 6999 Research for Master's Thesis (Repeated until 6 credits are reached)	6
QUIM 8896 Continuation of Master's Thesis	0
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

QUIM 6905 Practices and Principles of Chemistry

Three credits. One hour of discussion and at least three hours of contact with undergraduate students per week.

Prerequisite: Limited to graduate students of the Department of Chemistry Discussion of chemical principles with special emphasis on the application of these to laboratory work and the evaluation thereof.

QUIM 6906 Practices and Principles of Chemistry

Three credits. One hour of discussion and at least three hours of contact with undergraduate students per week.

Prerequisite: Limited to graduate students of the chemistry department Discussion of chemical principles with special emphasis on the application of these to laboratory work and the evaluation of these.

QUIM 8901 Graduate Seminary.

A credit. One to two hours per week.

Seminars on current chemistry topics of general interest, drawn from recent chemical literature and/or results of research papers presented by students, faculty members, and guest scientists.

QUIM 8902 Graduate Seminary.

A credit. One to two hours per week.

Seminars on current chemistry topics of general interest, drawn from recent chemical literature and/or results of research papers presented by students, faculty members, and guest scientists.

QUIM 8999 Research for the Doctoral Thesis

From one to twelve credits.

The student will carry out his/her work under the direction of his/her advisor. Dissertation submission is required for credit.

QUIM 8896 Continuation of Doctoral Thesis

No credit. Have completed all credit requirements in courses and research corresponding to the doctoral degree.

This course allows those students in the doctoral program who have completed the credit requirements in research courses to remain active students of the Campus while completing their thesis work.

OTHER COURSE DESCRIPTIONS:

QUIM 6011 Theory of Inorganic Chemistry I

Three credits. Three lecture hours per week Prerequisite: QUIM 4042 or its equivalent Atomic structure and electronic configuration of the elements in relation to the periodic system; Chemical Bonding Theory, Acid and Base Theory, Crystalline Solid State, Principal Group Chemistry, and Complex Compounds.

QUIM 6012 Theory of Inorganic Chemistry II

Three credits. Three lecture hours per week Prerequisite: QUIM 4042 or its equivalent and QUIM 6011 Atomic Structure and Electronic Configuration of the Elements in Relation to the Periodic System; Chemical Bonding Theory, Acid and Base Theory, Crystalline Solid State, Principal Group Chemistry, and Complex Compounds.

QUIM 6215 Theory of Analytical Chemistry

Three credits. Three hours of lecture a week.
Prerequisite: QUIM 3025, QUIM 4042 or equivalent.
Theoretical study of chemical equilibrium, separations and electrochemical methods. Discussion of statistical methods in measurement and experimental work.

QUIM 6225 Theory of Instrumental Analysis

Three credits. Three hours of lecture a week.
Prerequisite: QUIM 3025, and QUIM 4041 or their equivalents.
Theory of instrumental analysis methods and techniques including discussion of visible and ultraviolet spectroscopy, infrared, atomic absorption and nuclear magnetic resonance, mass spectrometry, gas chromatography, high-efficiency liquid chromatography, potentiometry, polarography, voltammetry, surface analysis, and automated analysis.

QUIM 6235 Instrumental Analysis Laboratory

Two credits. Six hours of lab per week.
Prerequisite: Director's Permission and QUIM 6225 Analytical Techniques and Methods. A series of experiments illustrative of the methods whose theoretical foundations have been discussed in QUIM 6225.

QUIM 6411 Theory of Organic Chemistry I

Three credits. Three lectures a week.
Prerequisite: QUIM 3032 or its equivalent Electronic Theory and Molecular Structure Concept; Conformation configuration; important reactions and their mechanisms.

QUIM 6412 Theory of Organic Chemistry II

Three credits. Three lectures a week.

Prerequisite: QUIM 3032 or its equivalent and QUIM 6411.

Electronic Theory and Concept of Molecular Structure; configuration and shaping; important reactions and their mechanisms.

QUIM 6611 Advanced Physical Chemistry I

Three credits. Three lectures a week

Prerequisite: QUIM 4042 or its equivalent Laws and Principles of Theoretical Chemistry.

QUIM 6611 Advanced Physical Chemistry II

Three credits. Three lecture hours per week Prerequisite:

QUIM 4042 or equivalent and QUIM 6611 Laws and Principles of Theoretical Chemistry.

QUIM 6811 Advanced Biochemistry I

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 4042, permission of the director of the department Study of the Chemistry and Reactions of the Constituents of Living Matter and of the Mechanisms and Regulation of Major Biological Processes.

QUIM 6812 Advanced Biochemistry II

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 4042, permission of the director of the department and QUIM 6811 Study of the chemistry and reactions of the constituents of living matter and of the mechanisms and regulation of major biological processes.

QUIM 6813 Biochemistry Techniques

Three credits. One hour of discussion and three hours of laboratory time per week.

Discussion and application of fundamental techniques in the field of biochemistry.

QUIM 6825 Biochemistry of Organized Systems

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 4041, (QUIM 4055 and permit recommended) The chemical and physical properties of macromolecules and their interactions in biological systems. Kinetics and reaction mechanisms in biochemical systems. Metabolic pathways will not be discussed.

QUIM 6896 Continuation of Master's Thesis

No credit.

Prerequisite: Have completed all credit requirements in coursework and research corresponding to the master's degree. This course allows those students in the master's program who have completed the credit requirements in coursework and research to remain active students of the Campus while completing their thesis work

QUIM 6999 Research for Master's Thesis

From one to six credits.

The student will carry out his/her research work under the direction of his/her advisor.

Submission of a thesis is a requirement for credit.

QUIM 8005 Inorganic Chemistry Seminar I

Two credits.

Advanced level seminar on recent topics in inorganic chemistry.

QUIM 8006 Inorganic Chemistry II Seminar

Two credits.

Advanced level seminar on recent topics in inorganic chemistry.

QUIM 8015 Inorganic Physical Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6012 Mechanism of reactions in inorganic systems, with emphasis on coordination compounds.

QUIM 8025 Ligand Field Theory

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

QUIM 6612 and 6012 Theory of Bonds and Spectra in Coordination Compounds.

QUIM 8035 Structural Methods in Inorganic Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6011 The Chemical and Physical Properties of Macromolecules and Their Interactions in Biological Systems. The kinetics and reaction mechanism in biochemical systems. Metabolic pathways will not be discussed.

QUIM 8045 Chemistry of Organometallic Compounds of Principal Group Elements

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6012 and 6412 Study of structures, synthesis and reactions of organometallic compounds.

QUIM 8046 Organometallic Compounds of Transition Metals

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6011 and 6411 Study of the structures, synthesis and reactions of organometallic compounds of transition metals.

QUIM 8205 Seminar in Analytical Chemistry

Two Credits Advanced Level Seminar on Recent Topics in Analytical Chemistry.

QUIM 8206 Seminar in Analytical Chemistry

Two credits.

Advanced level seminar on recent topics in analytical chemistry.

QUIM 8211 Advanced Analytical Chemistry I

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6225 Study of the Applications of Chemical and Instrumental Methods to the Analysis of Chemical Problems.

QUIM 8212 Advanced Analytical Chemistry II

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6225 Study of the Applications of Chemical and Instrumental Methods to the Analysis of Chemical Problems.

QUIM 8405 Seminar on Organic Chemistry I

Two credits.

Advanced level seminar on current topics in organic chemistry.

QUIM 8406 Organic Chemistry Seminar II

Two credits.

Discussion of recent advances in Organic Chemistry.

Advanced level seminar on current topics in organic chemistry.

QUIM 8415 Physical Organic Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6412 and 6612 The methods of thermodynamics, kinetics and quantum chemistry are treated in detail and applied to mechanisms of organic reactions. These include linear free energy relationships, substituent effects, isotopic effect, surface energy, the electronic structure of reaction intermediates, and symmetry arguments for molecular orbitals.

QUIM 8425 Synthetic Organic Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6411-6412 Review of classical and modern synthetic methods and their application to organic synthesis problems. Examples of substitution, addition, removal, condensation, and rearrangement in reactions will be discussed in detail. Special attention is given to homogeneous and heterogeneous catalysis and photochemical reactions.

8435 Natural Products

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6412 Elucidation of Structures, Partial and Total Synthesis and Biogenesis of Natural Products. Specific examples of terpenes, steroids, alkaloids, carbohydrates, proteins, lipids, and pigments. The elucidation of structures. It involves classical methods in addition to modern spectroscopic methods.

QUIM 8445 Structural Problems in Organic Chemistry

Three credits.

Prerequisite: QUIM 6411-6412, 6611-6612 Elucidation of the structures of organic compounds and reaction intermediates. Spectroscopic methods including ultraviolet and visible, infrared, nuclear and electron magnetic resonance, mass spectroscopy, and diffraction methods are discussed with applications to specific examples.

QUIM 8605 Seminar on Physical Chemistry I

Two credits.

Advanced level seminar on recent topics in physical chemistry.

QUIM 8606 Seminar on Physical Chemistry II

Two credits.

Advanced level seminar on recent topics in physical chemistry.

QUIM 8615 Chemical Kinetics

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 4042, permission of the head of the Department of Chemistry Theory and applications of the kinetics of chemical reactions in the gas and liquid phase.

QUIM 8625 Introduction to Molecular Spectroscopy

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6611-6612 Molecular Spectroscopy and Quantum Mechanics; Special attention will be given to the molecular structure and symmetry obtained from rotational spectra and vibrations. It includes calculations of thermodynamic functions of spectroscopic measurements.

QUIM 8635 Statistical Thermodynamics

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6611-6612 Introduction to Statistical Mechanics. Study of the relationships between the thermodynamic functions of gases, liquids and solids and their molecular structures.

QUIM 8645 Quantum Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6611-6612 The basic principles of quantum mechanics and their applications to chemical problems. It includes wave motion, matrices, structure, and atomic and molecular spectra, quantum valence theory, and the phenomenon of resonance.

QUIM 8801 Seminar in Biochemistry

Two credits. Independent courses (can be taken separately). Advanced level seminar on recent topics in biochemistry.

QUIM 8802 Seminar in Biochemistry

Two credits. Independent courses (can be taken separately). Advanced level seminar on recent topics in biochemistry.

QUIM 8885 Enzymatic Catalysis

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6812 The study of protein chemistry, with emphasis on conformation and its importance in the control of enzymatic catalysis. It includes: enzymatic catalysis, inhibition, modification and mechanisms.

QUIM 8900 Candidacy Examination

Zero credits.

QUIM 8990 Special Topics in Inorganic Chemistry

From one to four credits.

Discussion and advanced study of specialized topics in the area of inorganic chemistry such as: the chemistry of lanthanide elements, bio-inorganic, rules of symmetry in inorganic reactions.

QUIM 8992 Special Topics in Analytical Chemistry

From one to thirteen credits.

Discussion and advanced study of specialized topics in the area of Analytical Chemistry such as: signal processing, interface, methods of analysis of environmental pollutants, electrode processes.

QUIM 8994 Special Topics in Organic Chemistry

From one to four credits.

Discussion and advanced study of specialized topics in the area of organic chemistry such as: biosynthesis of natural products, use of organo-mercury compounds in organic synthesis, chemiluminescence of organic compounds.

QUIM 8996 Special Topics in Chemistry-Physics

From one to four credits.

Discussion and advanced study of specialized topics in the area of Chemistry-physics such as: photochemical and photophysical processes, nuclear magnetic resonance.

QUIM 8998 Special Topics in Biochemistry

From one to four credits.

Discussion and advanced study of topics specialized in biochemistry such as: membrane structure, protein synthesis, bioenergetics



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<http://chemistry.uprrp.edu>

DEGREE: PhD in Philosophy with a specialization in Chemistry

TEACHERS:

Marvin J. Bayro, Ph.D. Massachusetts Institute of Technology, 2010, Assistant Professor. Physical Chemistry and Biophysics; Structural Biology; Biochemistry. Biophysics— Elucidation of viral protein structures using nuclear magnetic resonance (NMR).

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Néstor Carballeira, Ph.D. Würzburg University, 1983, Professor. Organic and Bioorganic Chemistry; Lipid Chemistry; Natural Marine Products.

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Zhongfang Chen, Ph.D. Nankai University, 2000, Professor. Computational Chemistry; Computational Science of Nanomaterials; Physical-organic chemistry.

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Jorge L. Colón, Ph.D., Texas A&M University, 1989, Professor. Inorganic and Bioinorganic Chemistry; Chemistry of Materials, Artificial Photosynthesis, Biosensors and Nanomaterials for Drug Transport. jorge.colon10@upr.edu

Liz M. Díaz, Ph.D. University of Puerto Rico-Río Piedras, 2005, Professor. Analytical chemistry, chemistry education, renewable energy, and sustainability. liz.diaz2@upr.edu

Kai H. Griebenow, Ph.D. Max Planck Institute-Düsseldorf University, 1992, Professor. Biochemistry; Bioorganic Chemistry and Biophysics. kai.griebenow@upr.edu

Ingrid Montes, Ph.D. University of Puerto Rico-Río Piedras, 1985, Professor. Organometallic Chemistry, Education in Chemistry. ingrid.montes2@upr.edu

Eduardo Nicolau, Ph.D. University of Puerto Rico-Río Piedras, 2012, Professor. Analytical chemistry; Bio-nanomaterials for analytical applications.

eduardo.nicolau@upr.edu

Dalice Piñero, Ph.D. University of Puerto Rico-Río Piedras, 2009, Associate Professor, Inorganic, Bioinorganic and Biophysical Chemistry; Chemistry of Materials; Synthesis of paramagnetic metal complexes and multidimensional networks for their application in Materials Science and Nanomedicine. dalice.pinero@upr.edu

José M. Rivera, Ph.D. Massachusetts Institute of Technology, 2000, Professor. Supramolecular Chemistry, Molecular Recognition, Organic Synthesis, Nanotechnology, Bioorganic Chemistry, Medicinal Chemistry. jose.rivera151@upr.edu

Abimael Rodríguez, Ph.D. Johns Hopkins University, 1983, Professor. Organic, Bioorganic and Analytical Chemistry; Natural Marine Products. abimael.rodriguez1@upr.edu

Raúl Rodríguez, Ph.D. University of Puerto Rico - Río Piedras, 2010, Assistant Professor. Educational chemistry in organic chemistry and biochemistry; Studies of mitochondrial function in different cell lines to evaluate potential drugs; Synthesis of fullerenes derivatives and functionality as a steroid. raulr.rodriguez@upr.edu

Arthur Tinoco, Ph.D. Yale University, 2007, Professor. Bioinorganic Chemistry. Bioinorganic Chemistry, Proteomics, anticancer research, Metal-based therapeutics. arthur.tinoco@upr.edu

Brad R. Weiner, Ph.D. University of California, Davis, 1986, Professor. Chemical Physics; Environmental and Physical Chemistry; Chemistry of Materials. Reaction dynamics of gas-phase molecules, photochemistry and photophysics of lasers, kinetics of intermediates gas phase reagents, non-linear photoprocesses, molecular energy transfer. brad.weiner@upr.edu

Xianyong Wu, Ph.D. Wuhan University, 2016, Assistant Professor. Analytical chemistry. Energy storage, batteries and electrochemistry. xianyong.wu@upr.edu

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Doctoral Programme

1. *Application for Admission to Graduate Studies* in electronic format through the *ApplyYourself* platform.
2. Transfer, readmission, or reclassification forms as needed.
3. Two (2) transcripts of official credits that include degree certification.
4. The result of the TOEFL (foreign students).
5. Two (2) letters of recommendation from professors at the university from which you obtained your master's or baccalaureate degree.
6. A Statement of Purpose essay indicating the student's interest in pursuing graduate studies.
7. Attend an interview (optional, at the request of the Admissions Committee).

GRADUATION REQUIREMENTS:

1. Comply with the general requirements for graduation in force at the Río Piedras Campus.
2. Courses: complete a minimum of 59 credits in graduate courses which must be distributed as follows: 15 credits in core graduate courses, 6 credits in electives at the 8000 level, 2 credits in chemistry program seminar, 6 credits in teaching assistantship, 12 research seminar credits, and 18 credits in research.
3. Candidacy Exam: at the end of the first year of graduate studies.
4. Seminars: Two satisfactorily passed graduate seminars must be submitted to the Graduate Faculty. One such seminar will be the oral presentation of the student's dissertation.
5. Dissertation Proposal: Present a plan of your research work to your Dissertation Committee, which will eventually be your dissertation work.
6. Original Research Proposal and Comprehensive Oral Examination: Present and defend an original research proposal before your Committee. This requirement also constitutes a comprehensive oral examination.
7. Specialty Research Seminar: Enroll and attend seminars of your research group each academic semester. These credits are in addition to the 30 required for the degree. You must pass a minimum of 12 credits in the course corresponding to your area of research.
8. Graduate Research: Take a minimum of 18 credits in graduate research. Based on this work, you must write and defend a dissertation acceptable to the Department of Chemistry.
9. Teaching Assistantship: meet the minimum requirement of one year as a teaching assistant. You must enroll in the course QUIM 6905-6906 Principles and Practices of Chemistry, and meet the requirements of the course.
10. Maintain a GPA of 3.0 or higher.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	15
Electives (8000 level)	6
QUIM 6905-6906 Principles and Practices of Chemistry (Teaching Assistantship)	6
QUIM 8999 Rotation	0
Dissertation Proposal	0
QUIM 8901-8902 Graduate Seminar I & II	2
QUIM 8XXX Specialty Research Seminar	12

Program Requirements	Credits
QUIM 8999 Research for the Doctoral Dissertation (Repeated until 18 credits are reached)	18
QUIM 8896 Continuation of the Doctoral Dissertation	0
Total Credits	59

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

QUIM 6905 Practices and Principles of Chemistry

Three credits. One hour of discussion and at least three hours of contact with undergraduate students per week.

Prerequisite: Limited to graduate students of the Department of Chemistry Discussion of chemical principles with special emphasis on the application of these to laboratory work and the evaluation thereof.

QUIM 6906 Practices and Principles of Chemistry

Three credits. One hour of discussion and at least three hours of contact with undergraduate students per week.

Prerequisite: Limited to graduate students of the chemistry department Discussion of chemical principles with special emphasis on the application of these to laboratory work and the evaluation of these.

QUIM 8901 Graduate Seminary.

A credit. One to two hours per week.

Seminars on current chemistry topics of general interest, drawn from recent chemical literature and/or results of research papers presented by students, faculty members, and guest scientists.

QUIM 8902 Graduate Seminary.

A credit. One to two hours per week.

Seminars on current chemistry topics of general interest, drawn from recent chemical literature and/or results of research papers presented by students, faculty members, and guest scientists.

QUIM 8999 Research for the Doctoral Thesis

From one to twelve credits, the student will carry out his/her work under the direction of his/her advisor. Dissertation submission is required for credit

QUIM 8896 Continuation of Thesis

No credit. Have completed all credit requirements in courses and research corresponding to the doctoral degree.

This course allows those students in the doctoral program who have completed the credit requirements in research courses to remain active students of the Campus while completing their thesis work.

OTHER COURSE DESCRIPTIONS:**QUIM 6011 Theory of Inorganic Chemistry I.**

Three credits. Three lecture hours per week Prerequisite: QUIM 4042 or its equivalent Atomic structure and electronic configuration of the elements in relation to the periodic system; Chemical Bonding Theory, Acid and Base Theory, Crystalline Solid State, Principal Group Chemistry, and Complex Compounds.

QUIM 6012 Theory of Inorganic Chemistry II.

Three credits. Three lecture hours per week Prerequisite: QUIM 4042 or its equivalent and QUIM 6011 Atomic Structure and Electronic Configuration of the Elements in Relation to the Periodic System; Chemical Bonding Theory, Acid and Base Theory, Crystalline Solid State, Principal Group Chemistry, and Complex Compounds.

QUIM 6215 Theory of Analytical Chemistry.

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 3025, QUIM 4042 or equivalent.

Theoretical study of chemical equilibrium, separations and electrochemical methods.

Discussion of statistical methods in measurement and experimental work.

QUIM 6225 Theory of Instrumental Analysis.

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 3025, and QUIM 4041 or their equivalents.

Theory of instrumental analysis methods and techniques including discussion of visible and ultraviolet spectroscopy, infrared, atomic absorption and nuclear magnetic resonance, mass spectrometry, gas chromatography, high-efficiency liquid chromatography, potentiometry, polarography, voltammetry, surface analysis, and automated analysis.

QUIM 6235 Instrumental Analysis Laboratory

Two credits. Six hours of lab per week.

Prerequisite: Director's Permission and QUIM 6225 Analytical Techniques and Methods. A series of experiments illustrative of the methods whose theoretical foundations have been discussed in QUIM 6225.

QUIM 6411 Theory of Organic Chemistry I

Three credits. Three lectures a week.

Prerequisite: QUIM 3032 or its equivalent Electronic Theory and Molecular Structure Concept; Conformation configuration; important reactions and their mechanisms.

QUIM 6412 Theory of Organic Chemistry II

Three credits. Three lectures a week.

Prerequisite: QUIM 3032 or its equivalent and QUIM 6411. Electronic Theory and Concept of Molecular Structure; configuration and shaping; important reactions and their mechanisms.

QUIM 6611 Advanced Physical Chemistry I

Three credits. Three lectures a week

Prerequisite: QUIM 4042 or its equivalent Laws and Principles of Theoretical Chemistry.

QUIM 6611 Advanced Physical Chemistry II

Three credits. Three lecture hours per week Prerequisite:

QUIM 4042 or equivalent and QUIM 6611 Laws and Principles of Theoretical Chemistry.

QUIM 6811 Advanced Biochemistry I

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 4042, permission of the director of the department Study of the Chemistry and Reactions of the Constituents of Living Matter and of the Mechanisms and Regulation of Major Biological Processes.

QUIM 6812 Advanced Biochemistry II

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 4042, permission of the director of the department and QUIM 6811 Study of the chemistry and reactions of the constituents of living matter and of the mechanisms and regulation of major biological processes.

QUIM 6813 Biochemistry Techniques

Three credits. One hour of discussion and three hours of laboratory time per week.

Discussion and application of fundamental techniques in the field of biochemistry.

QUIM 6825 Biochemistry of Organized Systems

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 4041, (QUIM 4055 and permit recommended) The chemical and physical properties of macromolecules and their interactions in biological systems. Kinetics and reaction mechanisms in biochemical systems. Metabolic pathways will not be discussed.

QUIM 6896 Continuation of Thesis

No credit.

Prerequisite: Have completed all credit requirements in coursework and research corresponding to the master's degree. This course allows those students in the master's program who have completed the credit requirements in coursework and research to remain active students of the Campus while completing their thesis work

QUIM 6999 Research for Master's Thesis

From one to six credits.

The student will carry out his/her research work under the direction of his/her advisor.

Submission of a thesis is a requirement for credit.

QUIM 8005 Inorganic Chemistry Seminar I

Two credits.

Advanced level seminar on recent topics in inorganic chemistry.

QUIM 8006 Inorganic Chemistry II Seminar

Two credits.

Advanced level seminar on recent topics in inorganic chemistry.

QUIM 8015 Inorganic Physical Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6012 Mechanism of reactions in inorganic systems, with emphasis on coordination compounds.

QUIM 8025 Ligand Field Theory

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6612 and 6012 Theory of Bonds and Spectra in Coordination Compounds.

QUIM 8035 Structural Methods in Inorganic Chemistry.

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6011 The Chemical and Physical Properties of Macromolecules and Their Interactions in Biological Systems. The kinetics and reaction mechanism in biochemical systems. Metabolic pathways will not be discussed.

QUIM 8045 Chemistry of Organometallic Compounds of Principal Group Elements

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6012 and 6412 Study of structures, synthesis and reactions of organometallic compounds.

QUIM 8046 Organometallic Compounds of Transition Metals

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6011 and 6411 Study of the structures, synthesis and reactions of organometallic compounds of transition metals.

QUIM 8205 Seminar in Analytical Chemistry

Two Credits Advanced Level Seminar on Recent Topics in Analytical Chemistry.

QUIM 8206 Seminar in Analytical Chemistry

Two credits.

Advanced level seminar on recent topics in analytical chemistry.

QUIM 8211 Advanced Analytical Chemistry I

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6225 Study of the Applications of Chemical and Instrumental Methods to the Analysis of Chemical Problems.

QUIM 8212 Advanced Analytical Chemistry II

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6225 Study of the Applications of Chemical and Instrumental Methods to the Analysis of Chemical Problems.

QUIM 8405 Seminar on Organic Chemistry I

Two credits.

Advanced level seminar on current topics in organic chemistry.

QUIM 8406 Organic Chemistry Seminar II

Two credits.

Discussion of recent advances in Organic Chemistry.

Advanced level seminar on current topics in organic chemistry.

QUIM 8415 Physical Organic Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6412 and 6612 The methods of thermodynamics, kinetics and quantum chemistry are treated in detail and applied to mechanisms of organic reactions. These include linear free energy relationships, substituent effects, isotopic effect, surface energy, the electronic structure of reaction intermediates, and symmetry arguments for molecular orbitals.

QUIM 8425 Synthetic Organic Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6411-6412 Review of classical and modern synthetic methods and their application to organic synthesis problems. Examples of substitution, addition, removal, condensation, and rearrangement in reactions will be discussed in detail. Special attention is given to homogeneous and heterogeneous catalysis and photochemical reactions.

QUIM 8435 Natural Products

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6412 Elucidation of Structures, Partial and Total Synthesis and Biogenesis of Natural Products. Specific examples of terpenes, steroids, alkaloids, carbohydrates, proteins, lipids, and pigments. The elucidation of structures. It involves classical methods in addition to modern spectroscopic methods.

QUIM 8445 Structural Problems in Organic Chemistry

Three credits.

Prerequisite: QUIM 6411-6412, 6611-6612 Elucidation of the structures of organic compounds and reaction intermediates. Spectroscopic methods including ultraviolet and visible, infrared, nuclear and electron magnetic resonance, mass spectroscopy, and diffraction methods are discussed with applications to specific examples.

QUIM 8605 Seminar on Physical Chemistry I

Two credits.

Advanced level seminar on recent topics in physical chemistry.

QUIM 8606 Seminar on Physical Chemistry II

Two credits.

Advanced level seminar on recent topics in physical chemistry.

QUIM 8615 Chemical Kinetics

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 4042, permission of the head of the Department of Chemistry Theory and applications of the kinetics of chemical reactions in the gas and liquid phase.

QUIM 8625 Introduction to Molecular Spectroscopy

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6611-6612 Molecular Spectroscopy and Quantum Mechanics; Special attention will be given to the molecular structure and symmetry obtained from rotational spectra and vibrations. It includes calculations of thermodynamic functions of spectroscopic measurements.

QUIM 8635 Statistical Thermodynamics

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6611-6612 Introduction to Statistical Mechanics. Study of the relationships between the thermodynamic functions of gases, liquids and solids and their molecular structures.

QUIM 8645 Quantum Chemistry

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6611-6612 The basic principles of quantum mechanics and their applications to chemical problems. It includes wave motion, matrices, structure, and atomic and molecular spectra, quantum valence theory, and the phenomenon of resonance.

QUIM 8801 Seminar in Biochemistry

Two credits. Independent courses (can be taken separately). Advanced level seminar on recent topics in biochemistry.

QUIM 8802 Seminar in Biochemistry

Two credits. Independent courses (can be taken separately). Advanced level seminar on recent topics in biochemistry.

QUIM 8885 Enzymatic Catalysis

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 6812 The study of protein chemistry, with emphasis on conformation and its importance in the control of enzymatic catalysis. It includes: enzymatic catalysis, inhibition, modification and mechanisms.

QUIM 8900 Candidacy Examination

Zero credits.

QUIM 8990 Special Topics in Inorganic Chemistry

From one to four credits.

Discussion and advanced study of specialized topics in the area of inorganic chemistry such as: the chemistry of lanthanide elements, bio-inorganic, rules of symmetry in inorganic reactions.

QUIM 8992 Special Topics in Analytical Chemistry

From one to thirteen credits.

Discussion and advanced study of specialized topics in the area of Analytical Chemistry such as: signal processing, interface, methods of analysis of environmental pollutants, electrode processes.

QUIM 8994 Special Topics in Organic Chemistry

From one to four credits.

Discussion and advanced study of specialized topics in the area of organic chemistry such as: biosynthesis of natural products, use of organo-mercury compounds in organic synthesis, chemiluminescence of organic compounds.

QUIM 8996 Special Topics in Chemistry-Physics

From one to four credits.

Discussion and advanced study of specialized topics in the area of Chemistry-physics such as: photochemical and photophysical processes, nuclear magnetic resonance.

QUIM 8998 Special Topics in Biochemistry

From one to four credits.

Discussion and advanced study of topics specialized in biochemistry such as: membrane structure, protein synthesis, bioenergetics

Faculty of Social Sciences





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<http://sociales.uprrp.edu/egap/>

DEGREE:

Master's Degree in Public Administration with a specialty in Human Resources Management and Labor Relations

Accreditations:

Network of Schools of Public Policy, Affairs and Administration (NASPAA), 2010-2024

Academic Affiliations:

Inter-American Network of Education in Public Administration (INPAE)

Latin American Center for Development Administration (CLAD).

TEACHERS:

Luz Mairym López Rodríguez, PhD, Walden University, 2010, Associate Professor.

Evaluation of public policies; program evaluation; non-profit organizations; applied research; Design of distance courses.

Liz Johanna Ortiz Laureano, PhD, University of Costa Rica, Rodrigo Facio Campus, 2020.

Assistant Professor. Government and public policy; social policies; health systems assessment; human rights and social justice; community work; Methodology for the systematization of experiences.

Víctor Rivera Hernández, JD, Universidad Interamericana, 1994, Master's Degree in

Current and Comparative Spanish Law, Universidad Complutense de Madrid, 2022 and Master's Degree in Public Administration, University of Puerto Rico, Río Piedras Campus, 1993. Assistant Professor. Government law; labor law; collective bargaining; public service ethics; supervision and leadership.

Deliz Rodríguez Carrasquillo, PhD, University of Puerto Rico, Río Piedras Campus, 2018.

Assistant Professor. Human resources; classification and remuneration; performance management; evaluation and training; gender and employment; Work-Burning Syndrome.

Urayoán Jordán Salivia, PhD, University of Baltimore, 2020. Assistant Professor.

Strategic alliances, citizen participation, empowerment of groups and citizens, co-production, non-profit organizations (especially cooperatives) and education.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Baccalaureate from a recognized university or its equivalent.
2. Proficiency in Spanish and English.
3. Overall academic index of 3.00 on a scale of 4.00.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself platform*.
2. Payment for the application fee.
3. Two official credit transcripts.
4. 500-600 word essay about your interest in Public Administration related to the school's mission.
5. Summarize.
6. Example of a written assignment done in a university course.
7. Two letters of recommendation (one of them from a professor).
8. Graduate School Admission Test (GRE) results. You are waived if you meet one of these:
 - a. 5 years of work experience (administrative/managerial) in government, NPO or Private sector
 - b. Minimum GPA of 3.5 in Baccalaureate
 - c. Master's, PhD, or JD, with a minimum GPA of 3.0, from an accredited program. International students must provide evidence of accreditation of their programs.
9. Interview (if necessary)
10. Those students who do not have the B.A./B.S. when applying, if admitted, must file the official academic transcripts with a degree.

GRADUATION REQUIREMENTS:

Comply with the general graduation requirements established by the Río Piedras Campus and with the specific requirements of the program:

1. Pass 13 credits of core courses, 15 credits of specialty, 6 credits of free electives with a grade of A, B or C.
2. Pass the Research Seminar.
3. Complete 37 credits.

PROGRAM OF STUDY:

This specialty contains two thematic orientations: (1) Human Resource Management and (2) Labor Relations in the Public Service. The former is aimed at training specialists, consultants and professionals in the administration of human resources systems, while the latter trains specialists, consultants and professionals in labour relations, collective bargaining and administration of collective agreements for the public sector.

Core Courses		Credits
ADPU 6005	Government & Public Administration	3
ADPU 6006	Research Methods in Public Administration	3
ADPU 6008	Ethics, Law and Public Administration	3
ADPU 6009	Budget in the Public Administration	3
ADPU 6895	Professional Development Practicum in Public Administration	1
Subtotal		13
Specialty Courses		Credits
ADPU 6015	Human Resources Management and Labor Relations	3
ADPU 6020	Research Seminar on Human Resources and Labor Relations	3
ADPU 6025	Recruitment and Selection of Public Personnel	3
ADPU 6267	Labor Relations in the Public Sector	3
ADPU 6703	Evaluation, Training & Development	3
Subtotal		15
Electives directed in the major or Free Electives (Two courses among the following - 6 credits)		Credits

ADPU 6019	Settlement Administration and Arbitration of Complaints and Grievances	3
ADPU 6266	Labor Legislation in the Public Sector	3
ADPU 6701	Work Analysis and Remuneration	3
ADPU 6706	Conflict Management and Resolution	3
ADPU 6705	Human Resources and Government Transformation	3
	Subtotal	6
Other Required Course		Credits
ADPU 6896	Research Seminar	3
	Subtotal	3
	Total	37

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ADPU 6005 Government and Public Administration

Three credits. Three hours of lecture a week.

Analysis of the development of the discipline of Public Administration and the redefinition of the field of study. The categories used in interdisciplinary analysis and the nature of the concepts that serve to propel the synthesis of knowledge. The use of ideal models and types. Systems analysis and modern organization theory. The study of theories of public policy in their relationship with public administration. Special attention is given to the issues of ethics, diversity, accountability, and merit in public service as core values of the program. Face-to-face and hybrid modality.

ADPU 6006 Research Methods in Public Administration

Three credits. Three hours of lecture a week.

Social research techniques and designs applied to the analysis, organization and evaluation of data specific to public administration. The emphasis of the course will be to promote ethics in research through qualitative and quantitative methodological designs appropriate to the objectives set. Special attention will be given to the discussion of methodological tools for decision-making on programs and policies.

ADPU 6008 Ethics, Law and Public Administration

Three credits. Three hours of lecture a week.

Public interest, ethics, and public values on which laws and public policies are based in a democracy. Legal principles that govern and control bureaucratic authorities in Puerto Rico and the United States, including basic political and constitutional theories, techniques and procedures used by administrative and judicial bodies, the relations of administrative bodies to each other with legislative chambers, and judicial review of administrative acts. It discusses the work of investigation, supervision, prosecution, deposition, advice and informal adjudication, as well as: the regulation and adjudication process, the right to be heard, and the methods and procedures of review within the administrative framework. It also studies the legislation and jurisprudence around government ethics.

ADPU 6009 Budget in Public Administration

Three credits.

The course analyzes the economic, theoretical, and legal aspects of public sector budgeting. Financial aspects of efficiency in the allocation of resources are discussed. It examines the government's budget process at the state, federal, and municipal levels and the organization of the document. The budget of the Commonwealth of Puerto Rico.

ADPU 6895 Professional Development Practicum in Public Administration

A credit. One hour of lecture per week.

Core course. It is a preparatory course for students during their first year of master's degree. Students acquire a series of skills that are essential for their successful performance as a graduate student and as a public administrator. Short workshops are included in the use of technological tools with application to research and administration. It also exposes the student to the ethical aspects of research, the correct use of reference sources, and professional written expression.

ADPU 6015 Human Resource Management and Labor Relations

Three credits. Three hours of lecture a week.

Required course in the specialty of human resource management and labor relations. Study of the fundamentals of human resources management in the public service; merit systems, their methods and techniques. Discussion and analysis of public service reform trends in Puerto Rico and other democratic governments during the last decade. Study of the development of human resources management in the Puerto Rico Public Service and its coexistence with collective bargaining systems and processes.

ADPU 6020 Research Seminar on Human Resources and Labor Relations

Three credits. Three hours of seminar per week.

Requirement of the specialty of human resources administration and labor relations aimed at the development of research on contemporary issues and controversies of the public service. The course offers the opportunity to delve into current issues related to ethics and corruption; productivity, work environment, merit, job security, and acquired rights, among others.

ADPU 6025 Recruitment and Selection of Public Personnel

Three credits. Three hours of lecture a week.

Concepts of the closed race and the open race, and their implications for the social philosophy of a government. Study and analysis of the forms of recruitment and their effectiveness; determination of minimum requirements as a means of continuing income and raising the overall level of public service; exams and their administration, certifications; strict ranking vs. full certification; Notification to Eligible Persons and Review Processes and appeal. Study of regulated professions, the concept of guarantee of minimum knowledge vs. competence.

ADPU 6267 Labor Relations in the Public Sector

Three credits. Three hours of lecture a week.

Historical development of labor relations in the public service in Puerto Rico, the United States, and Latin America. Legal Basis and Doctrine on the Right to Form and Unite to a trade union. Fundamentals of the collective bargaining process: the parties, the rules, the policy, the strategies and the fiscal aspects. Problems of sovereignty, representation, interpretation and resolution of complaints and grievances.

ADPU 6703 Assessment, Training and Development

Three credits. Three hours of lecture a week.

The course introduces the concepts, theories and methods related to the individual performance of the employee with special attention to public organizations. The relationship between performance appraisal, training, and development with employee productivity, motivation, and job satisfaction is discussed.

ADPU 6019 Settlement Administration and Arbitration of Complaints and Torts

Three credits. Three hours of lecture a week.

Legal doctrines governing the administration of collective agreements, arbitration processes, and grievance and grievance mechanisms in the context of the public service. Special attention is given to the administration of collective agreements by supervisors and labour relations personnel. It also discusses the arbitration practices used in Puerto Rico to settle disputes; and the procedural and legal aspects of administering grievance and grievance processes.

ADPU 6266 Labor Legislation in the Public Sector

Three credits. Three hours of lecture a week.

Historical background. Nature and basis of the employer's liability; the protection of workers in various societies. Social and economic problems faced by workers in Puerto Rico. Philosophy and policy on state and federal labor protection legislation: daily and weekly working hours, minimum wages, Christmas bonuses, vacations, sick leave, holidays, development and feeding periods, protection of working mothers against unjustified dismissals, against illegal discrimination, prevention of occupational accidents and diseases. Workers' insurance for unemployment, work accidents, non-occupational disability, old age and permanent disability and driver insurance. Employment Service; Protection of migrants.

ADPU 6701 Analysis of Work and Remuneration

Three credits. Three hours of lecture a week.

Study of the organization of work in the public service based on organizational design and its job structure. The provisions of job classification and remuneration contained in the law for the administration of human resources in the public service are studied, as well as the remuneration principles of equal pay for equal work, salary or ethics, minimum wage and pay equity.

ADPU 6706 Conflict Management and Resolution

Three credits. Three hours of lecture a week.

The course presents the theoretical and practical aspects of labor conflict and the methods and techniques for its management and resolution. The course is designed from the employer's perspective of public administration, and based on ethics and the public interest.

ADPU 6705 Human Resources and Government Transformation

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

Theories of development and organizational change are discussed, and the concepts are applied to government scenarios. The student acquires a greater understanding of the elements that affect the adoption of innovation, change and transformation and learns some techniques that can be applied to promote innovation and change.

ADPU 6896 Research Seminar

Three credits. Three hours of seminar per week.

Prerequisites: ADPU 6005, 6006, 6008, 6009, 6895 This seminar discusses the most important elements of academic research. Students present their ideas and discuss their arguments to develop a critical monograph on a contemporary problem of public administration. The product is expected to be of a publishable quality level. The student integrates the values of public administration into his/her work and incorporates international perspectives in the analysis of the study problem. It can be repeated up to a maximum of 6 credits.



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<http://sociales.uprrp.edu/egap/>

DEGREE:

Master of Public Administration (MPA) with a specialty in Public Management

Accreditations:

Network of Schools of Public Policy, Affairs and Administration (NASPAA), 2010-2024

Academic Affiliations:

Inter-American Network of Education in Public Administration (INPAE)

Latin American Center for Development Administration (CLAD)

TEACHERS:

Luz Mairym López Rodríguez, PhD, Walden University, 2010, Associate Professor.

Evaluation of public policies; program evaluation; non-profit organizations; applied research; Design of distance courses.

Liz Johanna Ortiz Laureano, PhD , University of Costa Rica, Rodrigo Facio Campus, 2020. Assistant Professor. Government and public policy; social policies; health systems assessment; human rights and social justice; community work; Methodology for the systematization of experiences.

Víctor Rivera Hernández , JD, Universidad Interamericana, 1994, Master's Degree in Current and Comparative Spanish Law, Universidad Complutense de Madrid, 2022 and Master's Degree in Public Administration, University of Puerto Rico, Río Piedras Campus, 1993. Assistant Professor. Government law; labor law; collective bargaining; public service ethics; supervision and leadership.

Deliz Rodríguez Carrasquillo, PhD, University of Puerto Rico, Río Piedras Campus, 2018. Assistant Professor. Human resources; classification and remuneration; performance management; evaluation and training; gender and employment; Work-Burning Syndrome.

Urayoan Jordán Salivia , PhD, University of Baltimore, 2020. Assistant Professor. Strategic alliances, citizen participation, empowerment of groups and citizens, co-production, non-profit organizations (especially cooperatives) and education.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Baccalaureate from a recognized university or its equivalent.
2. Proficiency in Spanish and English.
3. Overall academic index of 3.00 on a scale of 4.00.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself platform*.
2. Payment for the application fee.
3. Two official credit transcripts.
4. 500-600 word essay about your interest in Public Administration related to the school's mission.
5. Summarize.
6. Example of a written assignment done in a university course.
7. Two letters of recommendation (one of them from a professor).
8. Graduate School Admission Test (GRE) Results You are waived if you meet one of these:
 - b. 5 years of work experience (administrative/managerial) in government, NPO or private sector.
 - c. Minimum GPA of 3.5 in Baccalaureate.
 - d. Master's, PhD, or JD, with a minimum GPA of 3.0, from an accredited program. International students must provide evidence of accreditation of their programs.
9. Interview (if necessary).
10. Those students who do not have the B.A./B.S. when applying, if admitted, must file the official academic transcripts with a degree.

GRADUATION REQUIREMENTS:

Comply with the general graduation requirements established by the Río Piedras Campus and with the specific requirements of the program:

1. Pass 13 credits of core courses, 15 credits of specialty, 6 credits of free electives with a grade of A, B or C.
2. Pass the Research Seminar.
3. Complete 37 credits.

PROGRAM OF STUDY: SPECIALIZATION IN PUBLIC MANAGEMENT

This specialization integrates the topics of (1) Management and Analysis of Public Finances and (2) Project Management. In Management and Analysis of Public Finances, we try to train a professional with a broad understanding of the fiscal issues and problems faced by national and municipal governments. In addition, students will be able to acquire the technical knowledge and basic skills necessary to work as analysts of budget, finance, legislation, and related areas in government or non-profit organizations. On the other hand, Project Management offers students the opportunity to acquire technical knowledge and basic skills to design, organize and execute work plans that take into account the external and internal factors that affect the results of public projects. The academic requirements for this major are as follows:

Core Courses		Credits
ADPU 6005	Government & Public Administration	3
ADPU 6006	Research Methods in Public Administration	3
ADPU 6008	Ethics, Law and Public Administration	3
ADPU 6009	Budget in the Public Administration	3
ADPU 6895	Professional Development Practicum in Public Administration	1
Subtotal		13
Specialty Courses		Credits
ADPU 6017	Leadership & Supervision	3
ADPU 6310	Seminar on Problems of Budget Management and Financial Policy	3
ADPU 6409	Government Systems and Procedures	3
ADPU 6506	Strategic Project Planning and Management I	3
ADPU 6704	Governance in Public Management	3
Subtotal		15
Electives directed in the major or Free Electives (Two courses among the following - 6 credits)		Credits
ADPU 6309	Public finance	3
ADPU 6405	Organization Theory	3
ADPU 6408	Information Processing	3
ADPU 6410	Seminar on Public Management	3
ADPU 6560	Information and Knowledge Technology	3
ADPU 6708	Strategic Project Planning and Management II	3
Subtotal		6

Other Required Course		Credits
ADPU 6896	Research Seminar	3
Subtotal		3
Total		37

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ADPU 6005 Government and Public Administration

Three credits. Three hours of lecture a week.

Analysis of the development of the discipline of Public Administration and the redefinition of the field of study. The categories used in interdisciplinary analysis and the nature of the concepts that serve to propel the synthesis of knowledge. The use of ideal models and types. Systems analysis and modern organization theory. The study of theories of public policy in their relationship with public administration. Special attention is given to the issues of ethics, diversity, accountability, and merit in public service as core values of the program. Face-to-face and hybrid modality.

ADPU 6006 Research Methods in Public Administration

Three credits. Three hours of lecture a week.

Social research techniques and designs applied to the analysis, organization and evaluation of data specific to public administration. The emphasis of the course will be to promote ethics in research through qualitative and quantitative methodological designs appropriate to the objectives set. Special attention will be given to the discussion of methodological tools for decision-making on programs and policies.

ADPU 6008 Ethics, Law and Public Administration

Three credits. Three hours of lecture a week.

Public interest, ethics, and public values on which laws and public policies are based in a democracy. Legal principles that govern and control bureaucratic authorities in Puerto Rico and the United States, including basic political and constitutional theories, techniques and procedures used by administrative and judicial bodies, the relations of administrative bodies to each other with legislative chambers, and judicial review of administrative acts. It discusses the work of investigation, supervision, prosecution, deposition, advice and informal adjudication, as well as: the regulation and adjudication process, the right to be heard, and the methods and procedures of review within the administrative framework. It also studies the legislation and jurisprudence around government ethics.

ADPU 6009 Budget in Public Administration

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

The course analyzes the economic, theoretical, and legal aspects of public sector budgeting. Financial aspects of efficiency in the allocation of resources are discussed. It examines the government's budget process at the state, federal, and municipal levels and the organization of the document. The budget of the Commonwealth of Puerto Rico.

ADPU 6895 Professional Development Practicum in Public Administration

A credit. One hour of lecture per week.

Core course. It is a preparatory course for students during their first year of master's degree. Students acquire a series of skills that are essential for their successful performance as a graduate student and as a public administrator. Short workshops are included in the use of technological tools with application to research and administration. It also exposes the student to the ethical aspects of research, the correct use of reference sources, and professional written expression.

ADPU 6017 Leadership and Supervision Three credits.

Three hours of lecture a week.

Requirement of the specialty in public management. The course provides the fundamental foundations necessary for the understanding of human behavior in government organizations. Emphasis is placed on the study of the role of the supervisor and the leader within work organizations and their responsibility to the organization, employees and society.

ADPU 6310 Seminar on Problems of Budget Administration and Financial Policy

Three credits. Three hours of lecture a week.

The course is aimed at the analysis and research of specific topics on the budgeting process and the determination of public policy regarding priorities in the use of public resources. Contemporary topics of application to Puerto Rico, Latin America or the United States are selected that offer the student the opportunity to observe the impact of the financial policies of the states on the institutional capacity of the countries to achieve sustainable development and quality of life. Requirement of the specialty in public management.

ADPU 6409 Government Systems and Procedures

Three credits. Three hours of lecture a week.

This course is aimed at the critical analysis of the fundamental elements of the design of public organizations, in particular, of the structures, systems and procedures of work. The discussion revolves around the methods and techniques that allow internal changes and transformations to be made to increase the efficiency, effectiveness, and quality of government programs and services. Requirement of the specialty in public management.

ADPU 6506 Strategic Project Planning and Management I

Three credits. Three hours of lecture a week.

An introduction to the topic of planning is provided. The modern historical basis of planning and the importance of social and economic planning in the well-being of countries are discussed. The second part of the course emphasizes the discussion of planning applied to government management. Theories of planning, strategic planning, and strategic management are discussed. In addition, human, fiscal and infrastructure resources and their qualities, possibilities and limitations within the public administration are analyzed. It includes a general discussion of the methods and techniques of government project planning and management, including: data collection, plan formulation, and selection of indicators of achievement and results. Some political dangers of project planning and management in the government scenario are discussed. Requirement of the specialty in public management.

ADPU 6704 Governance in Public Management

Three credits. Three hours of lecture a week.

Required course for the specialty in public management. The concepts of citizen participation, transparency, accountability, and quality of service are applied to public management. The theory is discussed, as well as the techniques developed by governments to open government processes, decisions, and deliberations to citizens. Special attention is given to minorities and other disadvantaged sectors of society.

ADPU 6309 Public Finance

Three credits. Three hours of lecture a week.

A general analysis of the process of determining public revenues and expenditures; public debt; tax policy and the effects of government programs on income distribution, from the point of view of various economic theories.

ADPU 6405 Organization Theory

Three credits. Three hours of lecture a week.

The objective of this course is to apply the most relevant theoretical knowledge about organizations to contemporary governmental problems, essential elements of organizational functioning are studied, such as: decision-making, strategy development, leadership and transformation management. It also analyzes and contrasts the different schools of thought and models that have been developed to understand them, especially within the public sphere. It analyzes and investigates the impact of the internal and external environment, and the power relations within organizations. Attention is given to the innovative design of administrative systems, organizational culture, and change.

ADPU 6410: Seminar on Public Management

Three credits. Three hours of seminar per week.

Research course on the problems of public management. Theoretical and practical approaches to topics such as work design, the establishment and reorganization of work structures, the determination of the necessary human, fiscal and physical resources; the quality of services provided and citizens' confidence in the government's ability to deliver them; as well as organizational capacity to respond to national emergencies, among other contemporary issues.

ADPU 6560 Information and Knowledge Technology

Three credits. Three hours of seminar per week.

Seminar in which the impact of information and communication technologies for the management of information and knowledge is discussed. The role of information and communication technologies (ICTs) as tools to strengthen democratic governance is investigated.

ADPU 6708 Strategic Project Planning and Management II

Three credits. Three hours of seminar per week.

Prerequisite: ADPU 6506 Seminar in which the methods and techniques of government project planning and management are applied in the development of a project and the preparation of the documentation and final report. The course offers the student the opportunity to actively participate in the design of projects of varying complexity related to the study of problems or the implementation of solutions.

ADPU 6896 Research Seminar

Three credits. Three hours of seminar per week.

Prerequisite ADPU6005, 6006, 6008, 6009, 6895 This seminar discusses the most important elements of academic research. Students present their ideas and discuss their arguments to develop a critical monograph on a contemporary problem of public administration. The product is expected to be of a publishable quality level. The student integrates the values of public administration into his/her work and incorporates international perspectives in the analysis of the study problem. It can be repeated up to a maximum of 6 credits.



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DEGREE: Master of Public Administration (MPA) with a specialty in Government and Public Policy

Accreditations:

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Academic Affiliations:

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Latin American Center for Development Administration (CLAD)

TEACHERS:

Luz Mairym López Rodríguez, PhD, Walden University, 2010, Associate Professor. *Public Policy Evaluation; Program Evaluation; Non-Profit Organizations*; applied research; distance course design.

Liz Johanna Ortiz Laureano, PhD, University of Costa Rica, Rodrigo Facio Campus, 2020. Assistant Professor. Government and public policy; social policies; health systems assessment; human rights and social justice; community work; Methodology for the systematization of experiences.

Víctor Rivera Hernández, JD, Universidad Interamericana, 1994, Master's Degree in Current and Comparative Spanish Law, Universidad Complutense de Madrid, 2022 and Master's Degree in Public Administration, University of Puerto Rico, Río Piedras Campus, 1993. Assistant Professor. Government law; labor law; collective bargaining; public service ethics; supervision and leadership.

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Urayoán Jordán Salivia, PhD, University of Baltimore, 2020. Assistant Professor. Strategic alliances, citizen participation, empowerment of groups and citizens, co-production, non-profit organizations (especially cooperatives) and education.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Baccalaureate from a recognized university or its equivalent.
2. Proficiency in Spanish and English.
3. Overall academic index of 3.00 on a scale of 4.00.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself platform*.
2. Payment for the application fee.
3. Two transcripts of official credits.
4. 500-600 word essay about your interest in Public Administration related to the school's mission.
5. Summarize.
6. Example of a written assignment done in a university course.
7. Two letters of recommendation (one of them from a professor).
8. Graduate School Admission Test (GRE) Results You are waived if you meet one of these:
 - e. 5 years of work experience (administrative/managerial) in government, NPO or private sector.
 - f. Minimum GPA of 3.5 in Baccalaureate.
 - g. Master's, PhD, or JD, with a minimum GPA of 3.0, from an accredited program. International students must provide evidence of accreditation of their programs.
9. Interview (if necessary).
10. Those students who do not have the B.A./B.S. when applying, if admitted, must file the official academic transcripts with a degree.

CURRICULUM: Specialization in Government and Public Policy

This specialty integrates the processes of creation, formulation and evaluation of public policy and the relationship between government and society in the context of our democratic system. This is complemented by integrating the themes of (1) Government and Society and (2) Public Policy Analysis and Evaluation. In the first theme of Government and Society, the aim is to train government leaders and prepare students who are interested in continuing doctoral studies in the areas of government and public affairs, law and education, among others. The curricular content seeks to deepen the study of the contexts in which government is administered and the implications that public management has for society. Public Policy Analysis and Evaluation is aimed at training advisors, consultants, and specialists in the evaluation of government policies and programs.

Core Courses		Credits
ADPU 6005	Government & Public Administration	3
ADPU 6006	Research Methods in Public Administration	3
ADPU 6008	Ethics, Law and Public Administration	3
ADPU 6009	Budget in the Public Administration	3
ADPU 6895	Professional Development Practicum in Public Administration	1
Subtotal		13
Specialty Courses		Credits
ADPU 6505	Government & Politics	3
ADPU 6507	Public Policy and Sustainable Development	3
ADPU 6510	Seminar on Government and Democracy	3
ADPU 6707	Social Perspective of Public Policy	3
ADPU 6702	Evaluation of Government Programs	3
Subtotal		15
Electives directed in the major or Free Electives (Two courses among the following - 6 credits)		Credits
ADPU 6407	Quantitative Methods for Public Policy Analysis	3
ADPU 6508	Qualitative Methods for Public Policy Analysis	3
ADPU 6520	Seminar on State Reform and Modernization	3
ADPU 6550	Comparative Public Administration	3
ADPU 6897	Seminar on Public Affairs	3
Subtotal		6
Other Required Course		Credits
ADPU 6896	Research Seminar	3
Subtotal		3
Total		37

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ADPU 6005 Government and Public Administration

Three credits. Three hours of seminar per week.

Analysis of the development of the discipline of public administration and the redefinition of the field of study. The categories used in interdisciplinary analysis and the nature of the

concepts that serve to propel the synthesis of knowledge. The use of ideal models and types. Systems analysis and modern organization theory. The study of theories of public policy in their relationship with public administration. Special attention is given to the themes of ethics, diversity, accountability, and merit in public service as core values of the program. Face-to-face and hybrid modality.

ADPU 6006 Research Methods in Public Administration

Three credits. Three hours of lecture a week.

Social research techniques and designs applied to the analysis, organization and evaluation of data specific to public administration. The emphasis of the course will be to promote ethics in research through qualitative and quantitative methodological designs appropriate to the objectives set. Special attention will be given to the discussion of methodological tools for decision-making on programs and policies.

ADPU 6008 Ethics, Law and Public Administration

Three credits. Three hours of lecture a week.

Public interest, ethics, and public values on which laws and public policies are based in a democracy. Legal principles that govern and control bureaucratic authorities in Puerto Rico and the United States, including basic political and constitutional theories, techniques, and procedures used by administrative and judicial bodies. The relations of administrative bodies with each other with the legislative chambers and the judicial review of administrative acts. It discusses the work of investigation, supervision, prosecution, deposition, advice and informal adjudication, as well as: regulation and the informal adjudication process, as well as: the regulation and adjudication process, the right to be heard, and review methods and procedures within the administrative framework. It also studies the legislation and jurisprudence around government ethics.

ADPU 6009 Budget in Public Administration

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

The course analyzes the economic, technical and legal aspects of public sector budgeting. Financial aspects of efficiency in the allocation of resources are discussed. It examines the government's budget process at the state, federal, and municipal levels and the organization of the document. The budget of the commonwealth of Puerto Rico.

ADPU 6895 Professional Development Practicum in Public Administration

A credit. One hour of lecture per week.

Core course. It is a preparatory course for students during their first year of master's degree. The student acquires a series of skills indispensable for his or her successful performance as a graduate student and as a public administrator. Short workshops are included in the use of technological tools with application to research and administration. It also exposes the student to the ethical aspects of research, the correct use of reference sources, and professional written expression.

ADPU 6505 Government & Policy

Three credits. Three hours of lecture a week.

Analysis of the process of political and governmental action based on the institutions and groups that influence the determination of public policy. It includes a review of the process of monitoring such political and governmental action through the representative process; government structures; political parties and special groups. Exposition and analysis of modernized bureaucracies and their role in the entire process of formulation and implementation of public policy.

ADPU 6507 Public Policy and Sustainable Development

Three credits. Three hours of lecture a week.

Required course of the specialty in government and public policy. The study of public administration in the contemporary state as a basic factor for the achievement of a productive society. The role of public policies in fiscal health, employment, industry, and the environment is analyzed. Some international standards and programs designed to achieve them are discussed.

ADPU 6510 Seminar on Government and Democracy

Three credits. Three hours of seminar per week.

This seminar will discuss and investigate the organization, structure, and functioning of democratic governments. Particular interest will be given to the problems of human rights, politicization and ethics in the exercise of governing the state and administering government. The student will have the opportunity to deepen the application of democratic principles in the administration and formulation of public policy in Puerto Rico through a research work. Requirement of the specialty in government and public policy.

ADPU 6707 Social Perspective of Public Policy

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

Required course for the specialty of government and public policy.

Introduction to the theory and practice of social policies in democratic countries, with emphasis on Puerto Rico. Some of the ideological approaches to social welfare, such as neoliberalism, social democratic, feminist, anti-racial, among others, are discussed, and the way in which these take shape through social public policies.

ADPU 6702 Evaluation of Government Programs

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

Study of different evaluative research designs, both qualitative, quantitative and mixed. Design of indicators and identification of variables for the evaluation of government programs with a view to knowing their effectiveness, effectiveness and efficiency.

ADPU 6407 Quantitative Methods for Public Policy Analysis

Three credits. Three hours of lecture a week.

Introduction to the use of mathematical methods in public administration: application of linear programming, simulation, statistical decision theory, input-output analysis and research operation problems.

ADPU 6508 Qualitative Methods for Public Policy Analysis

Three credits. Three hours of seminar per week.

Introduction to the use of qualitative methods for the analysis of public policy. Students are exposed to the paradigm of qualitative and mixed research that allows them to make decisions and inform public administration and policy decisions.

ADPU 6520 Seminar on State Reform and Modernization

Three credits. Three hours of seminar per week.

This seminar will be aimed at studying the opportunities and constraints offered by the models of transformation of the structures and organization of the state. Specifically, the dimensions of organizational action that affect good governance policies are investigated, such as: the promotion of citizen participation in public governance; transparency and accountability, as well as the relevance and quality of public management products for society.

ADPU 6550 Comparative Public Administration

Three credits. Three hours of lecture a week.

Comparative analysis of the public bureaucracy in its international environment. The primary emphasis will be on the United States, Latin America and Europe.

ADPU 6897 Seminar on Public Affairs

Three credits. Three hours of seminar per week.

This seminar discusses and debates, from various perspectives, the role of citizens in a democratic society in relation to public affairs. The citizen is understood as an individual, as a member of a group or as part of civil society. The course allows the study and reflection on contemporary public issues with repercussions on government and public administration that are reflected in the student's research work.

ADPU 6896 Research Seminar

Three credits. Three hours of seminar per week.

Prerequisites: ADPU 6005, 6006, 6008, 6009, 6895 This seminar discusses the most important elements of academic research. Students present their ideas and discuss their arguments to develop a critical monograph on a contemporary problem of public administration. The product is expected to be of a publishable quality level. The student integrates the values of public administration into his/her work and incorporates international perspectives in the analysis of the study problem. (can be repeated up to a maximum of 6 credits)

OTHER COURSE DESCRIPTIONS:**ADPU 6045 Communication and Citizen Relations**

Three credits. Three hours of lecture a week.

Critical discussion of the methods and techniques of communication and public relations with citizens, the methods of communication control, the expression of public interests and

the effect of these interests on government action are discussed and analyzed. The topic is addressed from a democratic governance perspective with an emphasis on government transparency, access to information and citizen participation.

ADPU 6046 Propaganda and Public Opinion

Three credits. Three hours of lecture a week.

Concepts of public opinion and propaganda, their formation and their role in contemporary democracy; methods for measuring public opinion; surveys; analysis of results; Analysis of mass media and their impact on the political-administrative process.

ADPU 6047 Seminar on Local Government Administration.

Three credits. Three hours of seminar per week.

The course requires the development of research on the topics selected by the professor. Class discussions focus on the structures, legal basis, and development of municipal governments in Puerto Rico, Latin America, and the United States. Specifically, it examines and contrasts the roles of mayors, municipal assemblies, councilors, and city administrators, among others. The second part deals with the administrative and operational aspects of municipal governments. Attention will be given to management issues such as: executive leadership, availability and use of human, financial and physical resources. The discussion highlights the issue of the capacities of local governments in their political, social and economic role

and its relationship with the central and federal governments. Municipal autonomy is also discussed in the context of sustainable development and environmental protection.

ADPU 6055 Seminar on the Legislative Process

Three credits. Three hours of seminar per week The course offers the student the opportunity to conduct research and produce a monograph or research report. The course provides an overview of the constitutional history of the United States of America and the constitution of the Commonwealth of Puerto Rico, with emphasis on the republican form of government and the powers that emanate from it. This includes the legislative, executive and judicial branches. Through class discussions and written works on the legislative branch, problems such as: the scope of the legislative branch, the doctrine of separation of powers, and the inherent power of the legislative branch, among others, are studied. In addition, the legislative procedure is investigated, analyzed and studied, depending on the powers of the legislative power, its foundations, nature and scope.

ADPU 6056 Seminar on Administration of the Judiciary

Three credits. Three hours of seminar per week.

The seminar focuses on the administrative processes of both the state and federal judicial branches. The students, guided by the professor, discuss, debate and dialogue about the role of imparting justice and the participation of the courts in the formulation of public policy, as well as the relationship of the courts with citizens, lawyers and other branches of government. The student conducts research on the selected topic and produces a monograph or research report that is delivered in phases until the final work is delivered.

ADPU 6059 Supervised Practice

Three credits. Three hours of lecture a week.

Internship in government agencies under the supervision of a faculty member of the school of public administration who familiarizes the student with the application of theoretical concepts and principles of public administration. Exclusively for students with no administrative experience.

ADPU 6898 Thesis

Three credits. Three hours of thesis per week.

Prerequisites: ADPU 6005, 6006, 6008, 6009, 6895, 6896.

Optional elective course for students interested in writing a thesis. The thesis is a rigorous work in which the student integrates the knowledge of his/her area of specialization and demonstrates competence for research. The student will attend group and individual discussion sessions with the professor on the research topic. A thesis committee is formed with at least two members who must approve the research proposal and guide the student through it. During the semester, you will be expected to conduct research and submit your written work in phases until the thesis is concluded. It must be presented orally and in writing. The student is expected to have completed work equivalent to literature review at the beginning of this course.

ADPU 6305 Administration and Fiscal Policy

Three credits. Three hours of lecture a week.

The course studies the processes, regulations, and practices of planning, execution, and control of government financial policies and programs. Attention is paid to municipal and state financial management, as well as relations with the federal government. Some of the topics discussed are: financial organizations, government accounting, and public debt.



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DEGREES:

Joint Law Program (Juris Doctor) and Master's Degree in Public Administration

Accreditations:

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Academic Affiliations:

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TEACHERS:

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Liz Johanna Ortiz Laureano, PhD, University of Costa Rica, Rodrigo Facio Campus, 2020. Assistant Professor. Government and public policy; social policies; health systems assessment; human rights and social justice; community work; Methodology for the systematization of experiences.

Víctor Rivera Hernández, JD, Universidad Interamericana, 1994, Master's Degree in Current and Comparative Spanish Law, Universidad Complutense de Madrid, 2022 and Master's Degree in Public Administration, University of Puerto Rico, Río Piedras Campus, 1993. Assistant Professor. Government law; labor law; collective bargaining; public service ethics; supervision and leadership.

Deliz Rodríguez Carrasquillo, PhD, University of Puerto Rico, Río Piedras Campus, 2018. Assistant Professor. Human resources; classification and remuneration; performance management; evaluation and training; gender and employment; Work-Burning Syndrome.

Urayoán Jordán Salivia, PhD, University of Baltimore, 2020. Assistant Professor. Strategic alliances, citizen participation, empowerment of groups and citizens, co-production, non-profit organizations (especially cooperatives) and education.

JOINT LAW AND MASTER'S DEGREE PROGRAM IN PUBLIC ADMINISTRATION

The School of Law and the Graduate School of Public Administration (EGAP) offer a joint program that aims to train lawyers and public administrators with the competencies required to practice in both fields of knowledge.

The *raison d'être* of the program is to offer a unique opportunity to students who possess the dedication and commitment necessary to develop within an intense intellectual process. An increasing number of students at the University of Puerto Rico School of Law are studying Public Administration to obtain more specialized training in their legal training that they believe is necessary for their professional performance. In response to this reality, felt in our classrooms, the initiative between both schools arises, the creation of this joint degree. Reports from accrediting bodies in both fields provide evidence of the expansion of joint degrees such as the one proposed here.

Obtaining the Juris Doctor (JD) and Master's degrees in Public Administration (MAP), concurrently, responds to the idea that with the training of a cadre of professionals trained in both disciplines - law and public administration - the community is nourished by resources whose usefulness can be greater than that which can be obtained from the independent work of professionals in both fields. The depth and acuity of the perceptions that come from a person trained in both can contribute significantly to the future treatment of many social situations that respond to the intersection of law and public administration.

Specific Master's Program Requirements

1. Baccalaureate from a recognized university or its equivalent.
2. Proficiency in Spanish and English.
3. Overall academic index of 3.00 on a scale of 4.00.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself platform*.
2. Payment for the application fee.
3. Two official credit transcripts.
4. 500-600 word essay about your interest in Public Administration related to the school's mission.
5. Summarize.
6. Example of a written assignment done in a university course.
7. Two letters of recommendation (one of them from a professor).
8. Graduate School Admission Test (GRE) Results You are waived if you meet one of these:

- a. 5 years of work experience (administrative/managerial) in government, NPO or private sector.
 - b. Minimum GPA of 3.5 in Baccalaureate.
 - c. Master's, PhD, or JD, with a minimum GPA of 3.0, from an accredited program. International students must provide evidence of accreditation of their programs.
9. Interview (if necessary).
10. Those students who do not have the B.A./B.S. when applying, if admitted, must file the official academic transcripts with a degree.

**The student has to meet the admission requirements to the School of Law*

Interested parties can apply concurrently to both Schools, Law and Public Administration, and decide which one they begin their studies for, or they can apply to the second School, during the course of their first year in the first School to which they applied. If so, they will begin their studies at the second school to which they apply next academic year, that is, in their second year. The School of Law admits only in August of each academic year, while the Graduate School of Public Administration (EGAP) admits also in January. A student who begins studies at the School of Law, or begins studies at the School of Law during his or her second year from EGAP, will remain the full year taking courses at the School of Law. The remaining years he will take courses from both Schools, until he completes both degrees. The student must complete both degrees in order to obtain their graduation diplomas, regardless of whether they first complete all the required courses in one of the Schools.

PROGRAM OF STUDY:

The syllabus can be found on the following pages:

<https://sociales.uprrp.edu/egap/>

<http://derecho.uprrp.edu/>



Mailing Address: 9 Ave Universidad, Suite 901 San Juan PR 00925-2529

Telephone extensions: (787) 764-0000, extensions 87500, 87501 **Fax:**
(787) 522-1327

Portal: <https://sociales.uprrp.edu/economia/programa-graduado/>

DEGREE: Master of Arts with a major in Economics

TEACHERS:

Jaime del Valle Caballero, PhD, University of Manchester, 1992. Professor. Economic Theory; microeconomics; quantitative methods; technological theory.

José Laborde Rivera, PhD, State University of New York, Stony Brook, 2008. Assistant Professor. Quantitative methods; health economics; health systems; pharmaceutical sector.

Juan Lara Fontáñez, PhD, State University of New York, 1981. Professor. International Economics; macroeconomics; Latin America.

Indira Luciano Montalvo, PhD, National Autonomous University of Mexico, 2005. Associate Professor. Economic Theory; regional urban economy; quantitative methods.

Argeo T. Quiñonez Pérez, MA, University of Massachusetts, 1982. Associate Professor. Economy of Puerto Rico; economic history; economic development; international economy.

Carlos Rodríguez Ramos, PhD, Universidad Nacional Autónoma de México, 2001. Associate Professor. Quantitative methods; macroeconomics; Monetary economics.

Eileen Segarra Alméstica, PhD, University of California, Berkeley 1998. Professor. Economic Theory; labor economics; public finance.

Joseph Vogel, PhD, Rutgers University, 1987. Professor. History of Economic Thought; environmental; biodiversity; human rights; Intellectual Property Rights.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Baccalaureate or its equivalent from a recognized university.
2. Approval of the following courses or their equivalents: Statistical Methods I and II, Mathematical Foundations of Economics I and II, Intermediate Microeconomic Analysis, Intermediate Macroeconomic Analysis.
3. Overall GPA of 3.00 points or higher on a 4.00 scale.
4. Specialty average of 3.00 points or more on a 4.00 scale.
5. In exceptional cases, a student with an index of less than 3.00 may be allowed conditional admission.
6. Proficiency in Spanish and English.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself portal*.
2. Payment for the application fee.
3. Two official credit transcripts of studies completed up to the date of application.
4. Approval of prerequisite courses, if applicable.

GRADUATION REQUIREMENTS:

Comply with the general graduation requirements in force at the Río Piedras Campus. In addition, students will need to meet the program-specific requirements:

1. Pass the thirty (30) credits required by the Graduate Program.
2. Approve the Thesis Proposal.
3. Defending Your Thesis

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	18
ECON 6031-6032 Economic Theory	6
ECON 6051-6052 Statistics and Econometrics	6
ECON 6070 Research Seminar	3
ECON 6080 Continuation of the Research Seminar	3
Elective Courses (The student may take up to 6 credits of electives in another faculty. Courses must be at the graduate level and authorized by the Graduate Program).	12
ECON 6900 Degree Exam	0
<i>Thesis</i>	0
ECON 6955 Thesis in Progress	0
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ECON 6031 Economic Theory

Three credits. Three hours of lecture a week.

Prerequisite: Be admitted to the graduate program Critical Analysis of the Fundamental Theoretical Principles of Micro and Macroeconomics. Microeconomics covers, among others, the following topics: demand analysis, neoclassical production theory, market structure, general equilibrium and welfare economics, capital and interest theory, and decisional theory. The parts of macroeconomics cover topics such as: theories on the semi-dynamic Kaldor system, the macrodynamics of economic growth, Keynesian theory in the 1990s, and the Keynesian theory of the 1990s.
70.

ECON 6032 Economic Theory

Three credits. Three hours of lecture a week.

Prerequisite: Be admitted to the graduate program Critical Analysis of the Fundamental Theoretical Principles of Micro and Macroeconomics. Microeconomics covers, among others, the following topics: demand analysis, neoclassical production theory, market structure, general equilibrium and welfare economics, capital and interest theory, and decisional theory. The parts of macroeconomics cover topics such as: theories on the semi-dynamic Kaldor system, the

macrodynamics of economic growth, Keynesian theory in the 1990s, and the Keynesian theory of the 1990s.

70.

ECON 6051-6052 Statistics and Econometrics

Three credits.

Examination of modern statistical methods for the analysis of quantitative data with emphasis on procedural logic and the application of statistical concepts and techniques to the analysis of economic problems.

ECON 6070 Research Seminar

Three credits. Three hours of lecture a week.

Prerequisite: ECON 6031, ECON 6032, ECON 6051 The purpose of this seminar is: to guide the student in the process of defining and developing a research topic leading to their thesis proposal; familiarize you with the styles of thesis presentation and article writing according to the main journals of the profession; train them in the use of various methods in the search for information and the preparation of bibliography; and to develop awareness of the fundamental precepts of research ethics. Submission of an original thesis or essay proposal is required, demonstrating the student's ability to begin work on the thesis.

ECON 6080 Research Seminar II

Three credits.

Prerequisite: ECON 6070 The purpose of this seminar is to give students the opportunity to acquire knowledge and skills in economic research, as well as confidence in their ability, through direct experiences and frank criticism and discussion of these with their thesis supervisor. The student will take advantage of this seminar to develop their thesis research. It is recommended that during this seminar the student prepares for the defense of their thesis proposal.

ECON 6900 Degree Exam

Zero credits.

Prerequisites: ECON 6031, ECON 6032, ECON 6051, ECON 6052

Consists of the defense of the thesis proposal.

ECON 6955 Thesis in Progress

No credit.

Prerequisite: ECON 6080 This is a control course to which all students who are actively working on the thesis must enroll, in order to be entitled to the use of university facilities, including supervision by professor-advisors.

OTHER COURSE DESCRIPTIONS:

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 relating 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: welfare economics of health 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.

ECON 6005 Principles of Economic Theory

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the head of the economics department Accelerated and rigorous introduction to the fundamentals of macroeconomic and microeconomic theory, its methodology, and its tools, for students entering the Graduate Program with limited or no familiarity with economic theory. This course does not count towards the minimum number of credits required to obtain the master's degree. Face-to-face, hybrid and online course.

ECON 6007 Economy of Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: ECON 6005 or equivalent. It does not count towards the minimum number of credits needed for the master's degree in economics.

The economic problems of Puerto Rico through the analysis of the characteristics and trends of the economy of Puerto Rico. This study includes geography and economic history, the role of agriculture, land tenure, demographic variables and their interrelation with Puerto Rico's economic development, public revenues and expenditures, banking and credit institutions, transportation and communications, net income, gross product and balance of payments, industrial development, and government economic policy.

ECON 6015 History of Economic Thought

Three credits.

Critical analysis of the great schools of economic thought since Adam Smith, and of the contributions of their main exponents in the light of the political, economic and intellectual environment in which they lived.

ECON 6035 Mathematical Economics

Three credits. Three hours of lecture per week and two hours of laboratory time per week. The mathematical economics course will employ the language of mathematics to describe the various situations that arise in economics. This is because mathematical arguments are logical and exact, which makes it possible to deal with the results of economic hypotheses quite accurately. For this reason, mathematical models that aim to explain economic phenomena have become indispensable tools in economic sciences. Both their language and their techniques allow them to analyze situations and solve problems that, otherwise, could not be faced effectively. In this course, differential equations and first-order differences, higher order equations and simultaneous differences, non-linear programming, calculus of variations and Game Theory will be used to solve the different problems of Economic Science.

ECON 6090 Graduate Seminar on Environmental Economics

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Economics program The purpose of this course is for the student to become acquainted with the theoretical and practical problems involved in the control of environmental externalities. Different books and articles will be read and discussed in class. The perspective of the course is quite broad, as the research includes the political and bureaucratic dimensions of decision-making on environmental policy, as well as the existing theoretical problems for the design of environmental control institutions in a dynamic world. This requires research into the incentives that different key elements may have during the various stages of the control process. It is also necessary to assess the transaction costs associated with the different alternatives. Finally, the process of acquiring information and the incentives for those who possess and produce such information will be analyzed.

ECON 6095 Economics of Human Resources

Three credits. Three hours of discussion a week.

Analysis of theoretical models applied to problems of economic development and management of natural resources, the importance of natural resources used in different economic sectors and their impact on economic development. Economic principles applied in the efficient use of resources such as water, land, sea and forests; Incorporation of economic criteria into public policy on the management and conservation of natural resources.

ECON 6111 International Trade: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's Permission The distinction between internal exchange and foreign trade. The Historical Background of the Pure Theory of International Trade: Medieval Concepts, Mercantilism, Physiocrats, Absolute and Comparative Advantages. Classical and neoclassical theories of international trade. Trade Policy Theory: Tariffs, Quotas, Economic Integration.

ECON 6112 International Trade: Policy and Finance

Three credits. Three hours of lecture a week.

International balance of payments. The pure mechanism of international financial adjustments: flexible, gold-standard exchange rates. Interactions between foreign trade and national income. Pre-1972 adjustment mechanisms; liquidity crisis; Asymmetry of the adjustment mechanism. Recent developments in international finance. The possibilities of a new international currency system. Face-to-face, hybrid and online course.

ECON 6125 Public Finance and Fiscal Policy

Three credits.

Analysis of the main theories, emphasizing the theory of collective goods and the principles and problems associated with government activities of revenue collection and expenditure budgeting. Special attention is given to the problems of stability and growth, with particular reference to the economies of underdeveloped countries.

ECON 6130 Seminar on Public Finance and Fiscal Policy

Three credits.

Critical study of topics related to the theory of public income and expenditure. Possibilities and limits of fiscal policy.

ECON 6131 Advanced Microeconomics

Three credits.

Selected problems in price and distribution theory, firm theory, consumption theory, and welfare economics. It includes Samuelson's Manifest Preference; consumer stability testing; the firm and the market; signing under dynamic conditions involving uncertainty, risk, and discounting the future; dynamics stability tests, including Samuelson's Correspondence Principle; evidence of maximizing well-being.

ECON 6132 Advanced Macroeconomics

Three credits. Three hours of lecture a week.

In-depth analysis of various macroeconomic topics discussed in ECON 6031-6032; Development and analysis of advanced topics in macroeconomics.

ECON 6135 Monetary Theory and Policy

Three credits.

Analysis of theory and policy relevant to the role of the monetary and banking system, including the international monetary system, in determining aggregate demand and the level of employment and prices.

ECON 6140 Seminar: Monetary Theory and Policy

Three credits.

Prerequisite: ECON 6135 or its equivalent Critical study of topics related to monetary theory, monetary policy, and national and international stabilization policies.

ECON 6145 Economic History

Three credits.

The development of economic institutions and processes over the past 200 years, with an emphasis on the Western world.

ECON 6150 Seminar: Economic Problems and Economic Policy

Three credits. Three hours of lecture a week.

Analysis of important economic policy issues such as: economic opportunities and motivation (incentive), government intervention and the achievement of progress and economic stability, national and international economic development, consumption levels y capital formation. Reference will be made to the situation in Puerto Rico and other countries.

ECON 6151 Economic Development: Theory and Problems

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's Permission Analysis of the Economic Problems of Least Developed Countries in Africa, Asia and Latin America. Difference between development and growth. Theories of economic development, the role of capital, natural resources, social factors and technology. The external sector and economic development. Theoretical problems of development and trade in underdeveloped countries, problems of foreign aid.

ECON 6152 Economic Development: Planning and Policy

Three credits. Three hours of lecture a week.

Analysis of the main policy issues facing the least developed countries. Alternatives between multiple targets. Planning role. The private sector and the public sector. Maximization of employment. Versus product maximization. Inflation versus stagnation. Problems of regional development and income distribution.

ECON 6175 Demographic Economics

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Demographic changes have a direct effect on the development of countries and their economies. In recent years, the United States and Puerto Rico have experienced dramatic changes in the composition and level of their populations. This course will serve as a theoretical basis for graduate students who are interested in carrying out population studies, its impact on the economy and vice versa. The topics will be worked on in a technical and rigorous way, with particular emphasis on the census and other globally accepted measures. Through lectures in class, academic readings and research papers, the student will learn about the global demographic situation and its greatest challenges such as; the environment, the aging population, health, the crisis of retirement systems and famine, among others.

ECON 6195 Comparative Economic Systems

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Critical and thorough study of systems theory and practice. Alternates of economic organization.

ECON 6275 Intense Reading Course

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Special course for students who wish to delve deeper into a topic or area of study that has not been covered in other courses.

Students will work independently.

ECON 6276 Intense Reading Course II

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program An additional special course that provides space for students who wish to delve into a topic or area of study that has not been covered in other courses. Students will work independently in agreement with the teacher.

ECON 6295 Project Evaluation and the Cost-Benefit Technique

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The course studies the theory related to the cost-benefit technique used in project evaluation. Among the topics covered are the intertemporal valuation of benefits and costs, the evaluation of projects from the public versus the commercial point of view, shadow prices, investment algorithms, and others. A large part of the course will be dedicated to the study of various cases based on the techniques and concepts learned.

ECON 6305 Financial Economics

Three credits. Three hours of discussion a week.

Prerequisite: ECON 4382 Analysis of the characteristics and markets of major financial instruments. It studies how interest rates and the price of securities are determined in the economy and what factors cause them to change. It studies how, using futures contracts, options, interest rate swaps and portfolio immunization, risk is managed.

ECON 6410 Seminar on Economic Interaction in the Caribbean

Three credits. Three hours of discussion a week.

Critical analysis of the concept and forms of economic integration. Different approaches to integration; past experiences, areas of free trade; customs unions; common market, full integration. Economic integration between developed and developing countries. Integration issues. Economical in the Caribbean. The economic background of Caribbean countries; Possible objections to the Caribbean Integration Programme. Problems faced by Caribbean countries. Trade and development patterns of these countries.

ECON 6495 Econometrics

Three credits. Five hours of lecture per week.

Nature of econometrics. Econometric models. Parameter estimation. Identification of the model. Methods of minima squared: linear and nonlinear equations. Methods of maximum plausibility, simple and general cases. Current econometric models, construction, nature and use of some of the recent large-scale econometric models.

ECON 6497 Macroeconometrics

Three credits. Three hours of lecture a week.

Prerequisites: ECON 6051 The development of stochastic macroeconometrics, in addition to bridging the gap between macroeconomics and econometrics courses, has generated a large number of new models. This has motivated the development of econometric techniques to test these models. In the macroeconometrics course, econometric techniques, mainly time series analysis, that have application in the area of macroeconometrics are discussed. Among the concepts examined are: non-causality in the Granger sense; cointegration; decomposition of a series between permanent and transitory elements; Modeling of expectations and efficient markets and analysis of the business cycle.

ECON 6515 Agricultural Development in Underdeveloped Countries

Three credits. Three hours of lecture a week.

Role of agriculture in economic growth. Influence of physical, cultural and institutional attributes of the economy on agricultural productivity and economic growth. Transformation of agriculture and its problems in developing countries.

ECON 6550 Seminar: Economic Forecasting and Planning

Three credits.

Theory and technique of forecasting and planning in developing countries. Among the topics discussed are: the theoretical aspects of economic planning and forecasting; economic development planning: global, regional and sectoral; planning of human resources, agricultural and industrial development, public services and supplying industries, social assistance and welfare programmes. Particular emphasis is given to practical or laboratory work. Students will develop projects aimed at formulating development plans by applying the techniques studied.

ECON 6675 Industrial Planning and Development n Developing Countries

Three credits. Three hours of lecture a week.

Prerequisite: For graduate students, permission from the professor The Industrial Development Strategy. Main emphasis on decision planning concerning the selection between alternative projects, import substitution and export expansion. Other important considerations to be included in the course will be those concerning the factors that determine technology transfers and the role of technical and financial assistance in the industrialization process.

ECON 6695 Economic Aspects of Regional Urban Development

Three credits. Three hours of lecture a week.

Prerequisite: Counselor's Permission The objective of the course is not to train urban economists but to give the graduate student the opportunity to use the analytical tools at their disposal in a regional urban dimension. The course focuses on economic decision-making instruments in the process of urban micro-regional development. Among other aspects, it will consider valid economic instruments to determine how new investments are distributed in a given urban centre; how the concept of economic space enters the process of urban development; what are the economic aspects of urban development; what role the city plays in national development.

ECON 6715 Analysis of Production and Scheduling Functions

Three credits. Three hours of lecture a week.

Theory of static and dynamic production. Aggregate production functions and production selection theory under "related assumptions". Factor-product, factor-factor, and product-product relationship. Resource distribution models. Optimization of the firm's production and determination of the optimal size of the company. Studies of linear programming models.

ECON 6735 Computer Programming for Economists

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's Permission or ECON 6051 This course is designed to facilitate the solution to research problems in the Social Sciences in general and economics in particular. The course will emphasize conceptual and methodological aspects of quantitative analysis. PLI will be taught; This modern programming language will be used for problem solving, data modification, analysis, and simulation model construction. Students will be exposed to various canned programs that are of potential utility to economists and social scientists.

ECON 6895 Industrial Organization

Three credits. Three hours of lecture a week.

Prerequisite: Be a student admitted to the Graduate Program Critical Study of Industrial Organization and Structure, covering, among others, the following related topics: industrial location, the distribution of wealth and income, government and its public policy regarding economic power. **Mailing Address:** 9 Ave Universidad, Suite 901 San Juan PR



00925-2529 **Direct Phone:** (787) 763-5499

Phone extensions: (787) 764-0000, extensions 87543, 87546, 87548

Portal: <https://sociales.uprrp.edu/psicologia/>

DEGREE: Master of Arts with a specialty in Clinical Psychology

TEACHERS:

Cruz Bermúdez, Nelson D., PhD, Brandeis University, 2007, Assistant Professor.
Research topics: Neuroscience of drug addiction and mental disorders; neuroeducation.

Dávila Marrero, Elixmahir, PhD, University of Puerto Rico, 2005, Assistant Professor.
Research topics: Neuropsychological assessment and neurocognitive rehabilitation of neurodegenerative diseases and TBI. Use of video games as a cognitive rehabilitation tool with children and adolescents. Alternative education as a current educational strategy. Standardization of psychological testing for the Puerto Rican population.

Espada Brignoni, Teófilo, PhD, University of Puerto Rico, 2015. Research topics: Culture and subjectivity, Social movements, Empathy, Attributions and discourses in everyday life, Processes of subjectivation, Art and community intervention, Psychology and literature, Music and society.

Galarza García, Laura, PhD, Rice University, 2000, Professor. Research Topics: Industrial-Organizational Psychology; Comparative and International I/O Psychology; Aerospace Psychology; strategy and organizational change; Selection, development and management of individual and organizational performance; Work engagement.

García Ramos, Tania, PhD, Universidad Complutense de Madrid, 1995, Professor.
Research Topics: Industrial Organizational Psychology; Psychology of work and organizations; Work and subjectivity; Theorizing around work; research methodology; Epistemology of complexity.

Gómez Escudero, María de los Ángeles, PhD, Université de Paris V, 1991, Professor.
Research topics: Parenting and filiation; the body in speeches; Problems of Psychopathology, Psychoanalytic Clinic.

Jiménez Torres, Aida, PhD, University of Puerto Rico, 1993. Associate Professor.
Research Topics: Family and Couples: Attachment: Multiculturalism and Psychotherapy.

Martínez Mejías, Sylvia, PhD, University of Puerto Rico, 1998, Professor. Research topics: Studies in affective bonding and attachment theory; Court expertise in custody and special education cases; Evaluation in early intervention and developmental deficiencies.

Méndez Castillo, Milagros, PhD, Fordham University, 1993, Associate Professor. Research topics: Sexuality in adolescents, Violence in schools, Health psychology, Teaching psychology.

Miranda Gierbolini, Dolores, PhD, Temple University, 1987, Professor. Research topics: Development of sustainable communities, Social movements, Social policy, Political subjectivations, critical citizenship and social change, The human in the ecological complex, The hidden faces of violence.

Morales Arandes, Edgardo, Ed.D, Boston University, 1986, Associate Professor. Research topics: Language and metaphor as models for the construction of socio-organizational and personal realities; participation and democracy at work; relational constructionism; constructionist approaches to psychotherapy; dialogic and collaborative practices; evidence-based psychotherapy; qualitative research.

Nina Estrella, Ruth V., PhD, National Autonomous University of Mexico, 1991, Professor. Research topics: Interpersonal communication, family, couple relationships and sexuality and adolescence.

Ruiz Alfaro, Frances, PhD, University of Puerto Rico, 2014. Assistant Professor. Research topics: Affective bonding; Discourse and Literature, Subjectivity; Autism Spectrum Disorder Evaluation.

Santiago Estrada, Sara, PhD, University of Puerto Rico, 2013. Associate Professor. Research Topics: Transformations at Work; Study of subjectivities in work scenarios, educational organizational scenarios; Change in organizations.

Tirado Santiago, Giovanni, PhD, McGill University, 2006, Associate Professor. Research topics: Neural plasticity; biopsychology of learning and memory; Neuroimaging of cognitive functions in major depression.

Vale Nieves, Otomie, PhD, University of Puerto Rico, 1993, Professor. Research Topics: Technology and Learning; development, subjectivity and historical context; critical psychology; language and subjectivity; construction of the youth, technology and gender.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Possesses, or is in the process of completing no later than the summer of the year in which you intend to commence graduate studies, a bachelor's or bachelor's degree from an accredited institution or university.
2. Have a general academic index of not less than 3.00 points (or its equivalent in the grading system of the university of origin) or a general academic index (baccalaureate and master's degree) of no less than 3.00 points if you have a master's degree.
3. Academic index of no less than 3.00 points in: (a) General or Introductory Psychology; (b) Social Psychology; (c) Elements of Statistical Reasoning; (d) Psychological Research Methodology.
4. Be fluent in Spanish and English.
5. Attend an interview.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the ApplyYourself platform.
2. Two official transcripts.
3. Provide a *resume*.
4. Write an essay.

Other Requirements (for those candidates who qualify)

1. Group interview for which you will be summoned.

GRADUATION REQUIREMENTS:

In addition to the general requirements for earning a master's degree from the Río Piedras Campus, students must complete one semester of residency.

PROGRAM OF STUDY:

Code	Requirements	Credits
Core Courses		10
PSIC 6405	Personality Theories and Psychotherapy	3
PSIC 6006	Statistics Applied to Psychology	3
PSIC 6007	Seminar: Psychological Research Methods	3
PSIC 6030	Proseminar in General and Applied Psychology: Ethical Issues in Psychology	1
Courses in the area of specialty		22
PSIC 6401	Psychological Evaluation I	3
PSIC 6403	Psychological Assessment Internship I	1
PSIC 6408	Advanced Abnormal Psychology	3
PSIC 6431	Clinical Psychology Internship I	0
PSIC 6432	Clinical Psychology Practice II	2
PSIC 6433	Clinical Psychology Practice III	2
PSIC 6434	Clinical Psychology Internship IV	2
PSIC 6020	Principles of Psychological Measurement	1
PSIC 6070	Puerto Rican Society and Culture	1
PSIC -----	Two Courses in Clinical Skills	6
One of the following five courses:		
PSIC 6040	Proseminar in General and Applied Psychology: Principles of Supervision	1
PSIC 6050	Proseminar in General and Applied Psychology: Principles of Consulting	
PSIC 6060	Evaluation of Programs and Services	
PSIC 6080	Proseminar in General and Applied Psychology: Employee Evaluation	
PSIC 6090	Proseminar in General and Applied Psychology: Identification of Needs and Resources	
Free Electives		9
Comprehensive Examination		0
Thesis		3
PSIC 6010 or PSIC 6995	Thesis Seminar Research Practicum	3
PSIC 6008	Thesis work	0
Total Credits		44

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PSIC 6405 Theories of Personality and Psychotherapy

Three credits.

Discussion of the basic concepts in personality theory and psychotherapy with particular emphasis on existential and phenomenological approaches. Emphasis is placed on the pertinence and applicability of the concepts and techniques discussed, taking into consideration our diverse social idiosyncrasies and the real situation in which the Puerto Rican psychotherapist renders his or her services.

PSIC 6006 Statistics Applied to Psychology

Three credits.

Statistical methods and their applications in psychological research. Data collection, organization, and analysis; frequency distribution; measures of central tendency, variation, asymmetry, and kurtosis; theoretical, binomial, normal, and Poisson distributions; sampling, sampling distribution, hypothesis testing for large and small samples; point-based and interval-based estimates.

PSIC 6007 Seminar: Methods of Psychological Research

Three credits. Three hours of lecture a week.

Discussion of the basic methods of research in the field of psychology, with examples of the most frequently used techniques. Discussion of topics such as controls in psychological research, the concept of explanation and prediction, the practicalities of different research problems, the selection of areas, methods, and topics in psychological research.

PSIC 6030 Proseminar in General and Applied Psychology: Ethical Issues in Psychology

A credit. Sixteen lecture hours per semester.

The course will familiarize the student with the problems and considerations to be taken in the construction, development and application of an ethical system for the profession, the basic premises, notions and ethical implications of using various models of man will be analyzed as illustrated with the various psychological paradigms. The discussion of cases, situations and paradoxes in the practice of professional psychology will be used.

PSIC 6401 Psychological Evaluation I

Three credits. Two hours of lecture per week.

Prerequisite: PSIC 6020, 6405 and 6408.

Critical analysis of the theoretical and practical aspects of psychological assessment by means of the intelligence test. It includes the historical, conceptual and ideological aspects of this mode of evaluation; the Stanford-Binet and Wechsler tests (for children and adults); its uses, scope, limitations, administration, valuation and interpretation.

PSIC 6403 Psychological Assessment Practice I

A credit. Three hours per week of supervision sessions and twelve hours of practice.

Prerequisite: PSIC 6020, 6405, 6408 and be enrolled in PSIC 6501 Supervised experience in administering, assessing, and interpreting intelligence tests, as well as writing psychological reports.

PSIC 6408 Principles of Psychopathology

Three credits. Three hours of lecture a week.

Discussion of various models of psychopathology (biophysical, intrapsychic, phenomenological, behavioral, and sociocultural) with particular emphasis on antecedents, development, and patterns of symptoms. Psychotherapeutic aspects, when pertinent to diverse patterns of psychopathology and sociocultural idiosyncrasies, are also discussed.

PSIC 6431 Clinical Psychology Practice I

No credit. Twelve hours of supervised practice per week.

Supervised practice in clinical observation, interviews, preparation of reports and histories, and participation in case conferences. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6432 Clinical Psychology Practice II

Two credits.

Prerequisite: PSIC 6431 Supervised practice in intellectual and personality functioning assessments, diagnostic interviews, case conference participation, counseling and individual psychotherapy with special focus on short-term problem-solving and crisis intervention. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6433 Clinical Psychology Practice III

Two credits.

Prerequisite: PSIC 6432 Supervised Practice in Group Individual Psychological Functioning Assessments and Individual Psychotherapy. Supervised experiences of individual psychotherapy, psychodiagnosis, and group therapy will be emphasized in this practice. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6434 Clinical Psychology Practice IV

Two credits.

Prerequisite: PSIC 6433 Practice requires 12 hours of work per week in addition to meetings by appointment. It requires twelve hours of work a week, in addition to meetings with the clinical supervisor.

PSIC 6020 Proseminar in General and Applied Psychology: Principles of Psychological Measurement

A credit. Sixteen lecture hours per semester.

This module aims to expose the student to the basic principles of psychological assessment in its broadest sense. The emphasis will be on the discussion of the concepts of validity, reliability, normalization and standardization, among others.

PSIC 6070 Proseminar in General and Applied Psychology: Puerto Rican Society and Culture

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with the effect of variables resulting from Puerto Rican society and culture on individual and group behavior. Emphasis is placed on the analysis of situations that require the intervention of the clinical psychologist in the light of these variables.

PSIC 6050 Proseminar in General and Applied Psychology: Principles of Consulting

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with consulting and counseling service models in order to know and apply the basic principles of these models to situations that require the advice of a psychologist.

PSIC 6060 Proseminar in General and Applied Psychology: Evaluation of Programs and Services

A credit. Sixteen lecture hours per semester.

This module invites you to review the existing literature on evaluation techniques and strategies in different contexts: government agencies, educational programs, community action programs, and services of a preventive or corrective nature in general.

PSIC 6080 Proseminar in General and Applied Psychology: Employee Evaluation

A credit. One hour of lecture per week.

Study of employee evaluation as a system: its methods and techniques. Face-to-face, hybrid and online course.

PSIC 6090 Proseminar in General and Applied Psychology: Identification of Needs and Resources

A credit. One hour of lecture per week and one hour of laboratory time per week. The course attempts to familiarize the student with various methods or models of identifying communal needs and resources. It also attempts to provide critical elements to evaluate different models and put them in contact with the different options used by public agencies.

PSIC 6010 Thesis Seminar

Three credits.

Prerequisite: PSIC 6007 Seeks to hone the creative and critical capacities of participants through the cultivation of dialogue and scientific exposition, both oral and written. It requires the preparation of candidates for the critical examination before the faculty panel and fellow students.

PSIC 6995 Research Practicum

One to four credits per semester.

Prerequisite: Be enrolled in the graduate program and permission from the professor. The course is aimed at developing the necessary skills for psychological research through their active participation in the development of research projects, under the supervision of a professor. The course can be repeated with credits, without limit with the approval of the research professor.

PSIC 6008 Thesis Work

No credits. Meeting by agreement.

Prerequisite: PSIC 6010 The course is designed for those students who need guidance and advice from their thesis advisors in relation to the difficulties encountered in the different phases of the thesis research work and in the preparation and writing of the thesis. The student will enroll in the course each semester in which he/she is carrying out his/her thesis work.

OTHER COURSE DESCRIPTIONS:**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 histories for psychosocial analysis. The theoretical presuppositions, the salient methodological themes, 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 socio-cultural 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 Overview of the Development of Psychiatric Knowledge and Its Relationship to Institutional Practices.

PSIC 5007 Psychology of Prevention

Three credits. Three hours of lecture a week.

Prerequisite: Undergraduate students must be in their fourth year and 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 areas 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 sign theory, of the genealogy and structure of linguistic semiosis, of the semiotics of text, of nonverbal communication, and of aesthetics and visual communication. It explores the relationship between semiotics and psychology.

PSIC 5009 Psychology of Cinema

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3003 or 3005 It studies individual and collective ways of life and aspirations, the search for meaning, and acceptance or resistance to modes of social ordering.

PSIC 5015 Introduction to Freud's Seminal Texts: A Critical Reading

Three credits. Three hours of lecture a week.

Prerequisite: 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.

PSIC 6005 Theories of Personality

Three credits.

Study of theories on the structure, dynamics and development of personality, emphasizing contemporary approaches. Critical examination of problems, theories, and research that help clarify the role of motivation in personality.

PSIC 6009 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The purpose of this course is to give the student a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, physiological sensation and perception, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area

PSIC 6015 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

The purpose of this course is to give a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, sensation and perception, physiological, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area.

PSIC 6025 Psychosocial Approach to the Study of Organizational Behavior

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program The following topics are covered relatively quickly: organizational design, motivation, satisfaction, communication, conflict, and others. It delves into the discussion of some methods that have been used to try to facilitate change in organizations. It critically evaluates current administrative practice and tries to identify and question the ideology or set of values that informs it. It illustrates the negative consequences of such an ideology and raises the possibility that the tendency of human beings to unilaterally control their situation leads precisely to organizational ineffectiveness. We are invited to invent and explore models of control that lead to effectiveness.

PSIC 6026 Psychological Approach to Development and Change in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 Explores various models of producing information pertinent to organizational development and change. It is hoped that these models will be compared and evaluated so that the student will become familiar with them and feel able to begin to explore the application of some of them.

PSIC 6040 Proseminar in General and Applied Psychology: Principles of Supervision

A credit. Sixteen lecture hours per semester.

Some of the most relevant theories on management and supervision and important aspects of supervision such as objectives, work planning, control, coordination and evaluation will be discussed. The unit will be conducted mainly through lectures, case discussions, and simulation of roles and real situations. Face-to-face, hybrid and online course.

PSIC 6105 Advanced Social Psychology

Three credits. Three hours of lecture a week.

The course is organized around the problem of the social construction of reality. An attempt is made to develop both a theoretical and methodological framework for the study of it. For this purpose, several theories are studied, such as ethnomethodology, symbolic interactionism, role theory; and it will delve into areas such as deviance and social control, attitudes, attribution, social comparison, social movements, and ideology. An effort will be made to use Puerto Rican literature to illustrate and understand the social construction of reality.

PSIC 6106 Community Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Department It is intended to prepare the future psychologist in the analysis and solution of psychosocial problems affecting the community.

PSIC 6107 Intercultural Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Psychology This seminar aims to highlight the extent to which social psychology can be subject to cultural variations. Social psychology research in different cultures is studied, analyzed comparatively, and the implications of the findings for existing theories are considered. Emphasis is placed on research on Puerto Rican culture, and an attempt is made to replicate at least one foreign study in our culture.

PSIC 6108 Psychology, Society and Health

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: PSIC 6106 Analysis of the socio-economic conditions, organizations, and social visions that affect the health and disease situation in Puerto Rico and other countries in the Americas. The role of the psychologist in relation to this problem.

PSIC 6109 The Group as a Means of Social Intervention

Three credits. Two hours of lecture and three hours of laboratory work per week.

Prerequisite: PSIC 6105, 6106 The application of group theories to social life to facilitate psychological, social, organizational, institutional, and community change will be studied.

PSIC 6110 Seminar on the Psychological Analysis of Social and Cultural Change in Puerto Rico

Three credits. Three hours of lecture a week.

The seminar will be oriented towards the purpose of gathering pertinent information regarding the educators of change in Puerto Rico, such as: the search for the historical background of Puerto Rican society in its basic outlines: population, emigration and immigration, urban planning, poverty, slums, social stratification, education, housing, employment and unemployment, industrialization and modernization. These issues or indicators of change, among others, will be analyzed on the basis of objective and verifiable information that emerges from the examination of the literature of studies carried out here and abroad and with a psychological emphasis. It will explore how changes in these areas affect interpersonal relationships, the development of human beings, the formation of beliefs and values, and coexistence in Puerto Rico.

PSIC 6115 Analysis of Strategies for Conflict and Crisis Management

Three credits. Three hours of lecture per week Conceptual and formal analysis for the management of interpersonal, group and community conflicts.

PSIC 6116 Practice in Conflict and Crisis Management Strategies

No credit.

Prerequisite: Concurrent with PSIC 6115 Supervised Practice in Interventions Aimed at Interpersonal, Group, and Community Conflict Management.

PSIC 6120 Seminar on Community Psychology and Social Policy

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director and instructor The course attempts to examine the content of public policy in the areas of health, education, and social welfare as it applies to community psychology in Puerto Rico. A thorough understanding will allow for effective planning of psychosocial intervention strategies.

PSIC 6131 Community Practice I

Three credits.

The purpose of this practice is to expand the theoretical framework discussed in the Advanced Social Psychology I and Community Psychology courses. It also aims to promote the acquisition of intervention skills in communities, formal groups, organizations, institutions or geographic communities, data collection and other aspects associated with research.

PSIC 6132 Community Practice II

Three credits.

This practice aims to expand the intervention and research skills acquired in Community Practice I.

PSIC 6133 Community Practice III

Three credits.

Prerequisite: PSIC 6132 This internship aims to refine and expand the skills acquired in the Community Practice I and II courses and to offer students the opportunity to acquire new community work skills in a new work scenario.

PSIC 6195 Social Psychology Seminar

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Study of current issues and issues in social psychology and related areas.

PSIC 6201 *Practicum I*

Three credits. One hour of lecture and twenty hours of laboratory per week. Students will dedicate at least 120 hours to practical work in an organization where they apply the concepts and techniques of the social-industrial program. Students will meet one hour a week with the supervising teacher to discuss problems and consult on references to study. As part of the course, each student will prepare a paper that is publishable in a scientific journal.

PSIC 6202 *Practicum II*

Three credits. Three hours of supervision and eight hours of practice per week. Prerequisite: PSIC 6201 and 6205 Practice in governmental and private organizations with particular attention to the organizational problems of such institutions. The course includes 120 hours of practice, in addition to weekly meetings for supervision.

PSIC 6205 Industrial Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Topics pertinent to the world of work with high social content are covered. Included are the following topics: historical significance of work and needs that are met by work, technology and job satisfaction, formal and informal organization, job analysis, recruitment and selection, introduction to performance evolution and training, as well as termination of employment (layoff, retirement, and exit interviews).

PSIC 6206 Construction of Psychological Tests

Three credits. Two hours of lecture per week. Prerequisite: PSIC 6006

Theory of Constructing Aptitude Tests, Intelligence, Exploitation, personality and interests. Practice in the preliminary development of one of these types of tests.

PSIC 6209 Psychosocial Aspects of Labor Regulations

Three credits.

Prerequisite: Admission to the Critical Analysis of Labor Regulations program in areas such as health, safety, hours, wages, labor unions, and others.

PSIC 6215 Psychosocial Approach to Organizational Conflict

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of psychological and sociological theories of organizational conflict and strategies for their solutions.

PSIC 6216 Psychological Testing Construction Laboratory

A credit. One hour of lab time per week.

Prerequisite: Take simultaneously with PSIC 6206 Laboratory for Question Writing, Item Analysis, Determination of Reliability, Standards, Equivalences, and Validity in Psychological Tests.

PSIC 6218 Psychology and Occupational Health

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6205 or equivalent The Occupational Psychology and Health course explores the workplace with an emphasis on the health, safety, and well-being of the workforce. It emphasizes the interaction of the worker and his or her workplace and its effects on the worker's life in and outside the company. The course explores topics such as: healthy organization, work-family balance and spillover effect, health and productivity, stress and health, violence at work, physiological aspects of illness, safety and accidents, as well as intervention alternatives in work scenarios. As part of the course activities, students will develop a group intervention in an organization identified by them as a contribution to the organization and the quality of life of its members.

PSIC 6225 Psychological Assessment Techniques in Personnel Selection

Three credits. Three hours of lecture a week.

Discussion of the main psychological assessment techniques used in personnel selection. Face-to-face, hybrid and online course.

PSIC 6227 Social Psychology of Work and Production in Contemporary Capitalist Society

Three credits. Three hours of lecture a week.

Analysis of the theories of alienation, communication and organization in relation to the changes in the economy and society, brought about by the contemporary crisis. The perspectives of social psychology in the technological age will be studied.

PSIC 6301 Advanced Developmental Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree in Psychology or counselor's permission Study of the basic principles of human development with emphasis on childhood and adolescence. Critical consideration of recent scientific findings. Special attention is given to the problems and particularities of children and adolescents in Puerto Rico.

PSIC 6302 Advanced Developmental Psychology

Three credits.

Prerequisite: Baccalaureate and with permission of the teacher Based on the study of the principles that govern human development, from conception to the end of adolescence. Subsequent developmental stages will be considered, such as early adulthood, middle adulthood, and the arrival of old age. Parallel to the study of the evolution of the human being during these periods, the psychological circumstances that accompany the attainment of fullness and the descent of life are discussed.

PSIC 6305 Advanced Statistics and Methodological Designs

Three credits. Three hours of lecture a week. Statistical analyses and designs, and the theory thereof.

PSIC 6306 History and Systems of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The course examines the history of psychology, from ideas in the countries of the ancient East to contemporary psychology. An attempt is made to identify the existing historical ties of the latter. Finally, the state of the discipline and its history in Latin America are examined.

PSIC 6311 Teaching Psychology

Three credits. Three hours of lecture a week.

This course focuses on the teaching and assessment of the general psychology course. Innovations in teaching and instructional methods are discussed. The central themes and debates of general psychology, course content, ethics in teaching, and assessment of achievement are discussed.

PSIC 6312 Practice in the Teaching of Introductory Psychology

Three credits. Eight hours of practice per week.

Prerequisite: PSIC 6311 Course designed to provide supervised experiences and skills in teaching psychology. The course includes supervised practice in the different teaching methods.

PSIC 6315 Practice in the Teaching of Advanced Courses in Psychology

Three credits. Twelve hours of supervised practice per week.

Prerequisites: PSIC 6312 and Teacher's Permit Organization and teaching of an advanced undergraduate psychology course under the supervision of a professor. It includes a discussion of the philosophical foundations of teaching and the most recent aspects of the topic to be taught.

PSIC 6317 Advanced Physiological Psychology

Three credits. Three hours of lecture a week.

The course emphasizes a study of the relationship between the physiological system of an organism y conduct. Special attention is paid to the functioning of the central nervous system y its influence on behavior.

PSIC 6318 Human Learning

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The course will broadly cover the verbal memory and verbal behavior of humans. It will include a brief study of the historical background and general methodology; The remainder of the course will consist of the study of various models of memory and/or language interpolation.

PSIC 6325 Psychological Approach to the Study of Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Basic theories about the relationship between mental events and human behavior and effectiveness. The importance of cognitive processes in psychological work in Puerto Rico is emphasized.

PSIC 6327 Use and Application of the Computer to Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission Introduction to the common terminology, principles, and applications of computers to psychological work.

PSIC 6402 Psychological Evaluation II

Three to four credits. Two hours Prerequisite: PSIC 6401, 6403 Training in the administration and interpretation of various techniques used in personality assessment, such as TAT, Bender-Gestalt, and Draw a Person. It includes supervised practical work, laboratory work, and the submission of written reports.

PSIC 6404 Psychological Assessment Practice II

No credit. Four to eight hours of practice.

Prerequisite: PSIC 6401, 6403, and be enrolled in PSIC 6402.

Supervised practice in the administration and interpretation of tests such as TAT, CAT, Bender-Gestalt, Drawing a Person, among others.

PSIC 6406 Psychotherapy Practice

No credit. Eight hours of practice per week.

Prerequisite: Enrolled in PSIC 6405.

Supervised practice in individual or group therapy. Practice is an integral part of the PSIC 6405 course.

PSIC 6407 Emergency Clinic and Short-Term Psychotherapy

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission The course proposes the study of a clinical and ethical knowledge that allows, beyond the so-called intervention, a positioning that centrally welcomes the word of the subjects who come to the clinic at a time of intricate conscious and unconscious phenomena that overflow their capacity to manage and tolerance of anguish and encourage them to connect with their crisis and their symptoms as one in which they are able to communicate with their crisis. Not only do they have an impact on external events, but as a production of their own complexity, subjectivity and discourse.

PSIC 6409 Practice in Psychopathology

No credit. Four hours of practice.

Prerequisite: Enrolled in PSIC 6408.

Observation, interviews, preparation of histories, diagnosis and clinical discussion of behavioral disorders. Practice is an integral part of the PSIC 6408 course.

PSIC 6410 Advanced Seminar on Behavior Modification

Three credits. Three hours of lecture per week; Practice (optional) Prerequisite: PSIC 6417 Critical and intensive study of the theoretical framework of behavior modification principles and the therapeutic effectiveness of behavior modification techniques.

PSIC 6416 Group Therapy

Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: Be a student of the graduate program in psychology The course will emphasize the theoretical and practical aspects of group therapy and offer a human laboratory for client and therapist experiences in a group psychotherapy environment.

PSIC 6417 Principles of Behavior Modification

Three credits. Three hours of lecture and four hours of practicum Prerequisite: Be a student of the graduate program in psychology Study of the basic psychological principles that govern human behavior, particularly those derived from the psychology of learning. Great emphasis will be placed on the application of social learning principles to the modification of psychotic, neurotic, and maladjusted behavior in clinical and educational institutions. Special attention will also be given to the critical discussion of recent scientific findings in behavior modification with particular interest in the applicability of these findings to maladjustment problems in Puerto Rico.

PSIC 6418 Childhood Behavioral Disorders

Three credits. Two hours of lecture per week; "Practicum" by agreement Prerequisite: Permission from the Department Directorate Problems of etiology, classification, and management of children who manifest extreme isolation, boundless behavior, strange and chaotic tendencies, and behavior determined by organic disorders. Theoretical frameworks, assessment techniques, and diagnosis are considered. Practice opportunities will be provided. Lectures will be offered by guest consultants.

PSIC 6421 Family Therapy I

Three credits. Two lectures and three labs a week.

Prerequisite: PSIC 6405, 6408 Study of some systems of family therapy, their theoretical models, techniques used, and case analyses. Students are offered the opportunity to live simulated family therapy experiences (laboratory) and to conceptualize about their own experiences within the different family systems that they share personally and professionally.

PSIC 6423 Family Therapy Practice I

Three credits. Three to four hours of practice.

Prerequisite: PSIC 6405, 6408, and 6421 Observation Experiences of Family Therapy Sessions; Opportunity to work with families as a cotherapist offering family therapy. Participation in Practice Center meetings, case discussions, and supervisory meetings.

PSIC 6436 Intramural Practice in Clinical Psychology

Three credits.

Prerequisite: Principal's permission.

Supervised practice in psychotherapy (individual, group, couples and/or families) and psychological evaluation. This internship is carried out in the facilities of the University Center for Services and Psychological Studies (CUSEP) during the summer sessions.

PSIC 6437 Introduction to Clinical Practice

Three credits. One hour of lecture, one hour of discussion, and five hours of supervised practice per week.

The clinic is structured around concepts and foundations that provide a basis and contextualize the experiential (practical) experience. In this course, the basic concepts will be presented in a theoretical-practical-therapeutic integration. This will be carried out specifically through the discussion of different aspects: theoretical frameworks, clinical observation, interview styles and processes, clinical conceptualization, therapeutic processes, and clinical contexts.

PSIC 6505 Dream Module

A credit. Three hours of lecture a week.

Prerequisite: Director's Permission The meaning of dreams from the physiological and psychological point of view, Jung's theory of dreams and that of Dr. Efrén Ramírez. Method of dream interpretation designed by Dr. Ramírez, and its usefulness in terms of personal development, as a method of psychotherapy and as a method of group therapy.

PSIC 6506 Colloquium on Topics in Psychology

No credit. One hour of meeting per week.

Lectures, discussion and exchange of ideas between professors of the Department, students and guest lecturers. The student will enroll each semester.

PSIC 6507 The Psychology of Women

Three credits. Three hours of lecture a week.

This course is organized around the question of whether there is such a thing as a female psychology and what its biological and social determinants are. The acquisition of sex roles and their historical determination and cross-cultural relativity are studied. The literature is reviewed in relation to the biological, sexual, cognitive and affective functioning of women. In addition, it studies the development of feminist movements, the socio-political situation of women in industrial society, and the impact of these changes on relations between the sexes, the family, and Puerto Rican society.

PSIC 6510 Seminar on the Family in Puerto Rico

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

Prerequisite: Permission from the Director Analysis and Research of the History and Psychosocial Aspects of the Family in Puerto Rico. The main purpose of the seminar is to promote psychosocial research on the family and its problems.

PSIC 6515 Intelligence, Creativity, and Cognitive Complexity

Three credits. Three hours of lecture a week.

The concepts of intelligence, creativity, and cognitive complexity will be contrasted and the relevance of these concepts for today's Puerto Rican society will be determined.

PSIC 6516 Supervised Reading Course

Three credits.

Prerequisite: Teacher's permission The readings revolve around a topic chosen by the students and the teacher. The student covers the concepts with the teacher's approval and prepares a monograph on the concept of his/her preference.

PSIC 6517 Advanced Psychopharmacology and Neurophysiology of Drug Use and Abuse

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Knowledge of the psychophysiological system and its alteration through the use of chemical substances is deepened. Students will become familiar with the chemical and pharmacological aspects of the substances that are abused, as well as those used in the different treatment modalities (methadone, naltrexone, etc.). Particular attention will be given to the study of human behavior and its interaction with the action of substances on the psychophysiological system.

PSIC 6518 Psychology of the Young

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6301 Study of theories and research that explain typical youth processes, taking into account the cultural variables that contribute to the formulation of such theories and the design of such research. Discussion of the physical, cognitive, social and affective aspects of development, as well as the evolution of the identity and sexuality of the young person. Analysis of family processes, school experience, relationships with peers and the influence they have on development.

PSIC 6525 Psychological Analysis of Power

Three credits. Three hours of lecture a week.

Analysis of the concept of power at the individual level (power traits, power motivation, foci of control), at the group level (leadership, relations between the sexes). Some emphasis will be given to the communal and institutional levels.

PSIC 6526 Spirituality in Psychology

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

Prerequisites: PSCI 3005 or 3003 This graduate-level course examines contemporary conceptualizations and debates surrounding the notion of spirituality in the work of psychology, particularly its integration into therapeutic practice and in the preparation of the helping professional. It reviews the ethical premises for psychology as it integrates spirituality into its research and practice.

PSIC 6527 Fundamentals of Human Sexuality

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director This introductory course aims to offer insight into human sexuality. It includes processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective and in its social dimension. The student will examine some sexual issues in Puerto Rican society.

PSIC 6528 Violence and Complexity

Three credits. Three hours of seminar per week.

The purpose of this course is to contribute to the production of a conceptual framework in which to situate violence as a complex, socially constructed phenomenon. The relationship between psychic life and social life will be studied from the centrality that the signifier of violence has acquired in our contemporaneity. This includes a close examination of the relationships between the history of the constitution and identifications of the subject (subjectivation) and the world we share with others (intersubjectivity) and its relation to violence. The contributions of the knowledge produced by the psychoanalytic discourse for the analysis of violence will be examined and dialogic relations between the psychoanalytic discourse and other contemporary fields of theorization such as poststructuralism, deconstructivism, social constructivism and Lacanian psychoanalysis will be promoted. The contributions of traditional psychology to the subject of violence are critically examined.

PSIC 6529 Review and Critical Analysis of the Psychological Literature in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Have passed a minimum of 9 graduate credits.

Review of research and publications that have been done in Puerto Rico, their theoretical frameworks, methodology and implications to understand the psychological reality of Puerto Ricans. A framework for analysis and critique will be provided.

PSIC 6535 Theoretical Controversies on Human Development: Early Childhood

Three credits.

Different aspects of human development from birth to seven years of age will be examined. The approach is epistemological, emphasizing the basic assumptions of the discipline, the fundamental controversies, and the ideological and philosophical aspects of the theories examined.

**PSIC 6537 Psychopathology of Affective Development in Childhood:
Psychoanalytic Perspective**

Three credits.

Prerequisite: Permission of the director To provide a clinical view of the child's affective development from a psychoanalytic perspective, allowing knowledge of child psychopathology.

PSIC 6545 Program Evaluation and Consulting

Three credits. Three hours of lecture a week.

Introduction to the basic concepts and methods of consulting and program evaluation and the ethical and evaluative controversies surrounding them. Emphasis is placed on developing skills in these areas and applying them in public service programs and private agencies for non-pecuniary purposes.

PSIC 6546 Analysis of Interventions in Organizations: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 or its equivalent, permission of the director or PSIC 6026 Analysis of interventions carried out in public and private organizations in and outside Puerto Rico, in light of the conceptual models that guide them. Different intervention models, their purposes, conceptual frameworks and ethical principles are presented. Analysis of the current applications of these and other models, paying particular attention to the congruence between theory and practice.

PSIC 6555 School Psychology

Three credits. Three hours of discussion a week.

General orientation on school psychology, focusing the discussion on the public education system of Puerto Rico and on the ethical principles of the discipline. It focuses on the various functions that are carried out in professional practice in this area and on the historical and future development of school psychology.

PSIC 6591 Practice in School Psychology I

Three credits. Eleven hours of supervised practice per week.

Prerequisite: PSIC 6555 Supervised practice in providing services in the school setting that includes experiences such as: direct classroom observation, health promotion and prevention, community relations, interventions with academic and discipline problems.

PSIC 6592 School Psychology Practice II

Three credits. Three hours of direct supervision and ten hours of practice per week in the school setting.

Prerequisites: PSIC 6401, 6403, 6555, and 6591 Continuation of Supervised Practice in Providing Psychological Services in a School Setting. The student will gain experience in intervention strategies such as crisis and conflict intervention, management of specific behaviors in groups, interdisciplinary teamwork, psychoeducational and program evaluations. The course is complementary to PSIC 6591.

PSIC 7005 Seminar in School Psychology: The Functions of the School Psychologist

Three credits. Fifteen hours of lecture per week.

Prerequisite: Director's Permission Study of the Clinical Process with Learning and Behavioral Disabilities. Emphasis on the integration of data from case histories, interviews, and psychometric tests.

PSIC 8000 Philosophical Foundations of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Changes in the Paradigms of Science and Their Consequences in Psychology.

PSIC 8001 Dissertation Seminar

No credit. Three hours of discussion a week.

Prerequisite: Master's degree or PSIC 6007. Permission of the director and/or coordinator of the graduate program. The dissertation is original research that demonstrates the student's capabilities as an independent researcher. During his/her dissertation seminar, the student will choose his/her research topic and problem, review the literature (relevant theoretical and empirical findings) and elaborate the research design or action plan. You will submit a formal proposal to the dissertation committee for approval.

PSIC 8002 Dissertation Paper

No credit. Three hours of discussion a week.

Prerequisite: PSIC 8001. This course is designed for the purpose of following up on the work done in the dissertation seminar. In this case, the research proposed in the seminar course will be completed, i.e., the information will be collected and interpreted with the advice of the dissertation committee. The student will enroll in the course each semester in which he/she is carrying out his/her dissertation work and will submit written reports of his/her progress periodically. You will complete your thesis work by submitting the final dissertation essay.

PSIC 8005 School Psychology Seminar: Professional Problems of School Psychology

Three credits. Three hours of lecture a week.

In-depth examination and analysis of unresolved problems in the area of psychoeducational diagnosis and intervention and behavior modification; Counseling, consulting, and counseling for parents.

PSIC 8007 School Psychology: Mental Health Consulting in Schools

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director, student consortium. Consulting as a model of school psychological service. The student will become familiar with and train in various modalities and levels of consulting that will be used as a school psychologist. The research and evaluative aspects of the consultancy will be studied.

PSIC 8015 Advanced Social Psychology II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105. Examines historical forms of subjectivity in areas of everyday life such as child-rearing, morality, sexuality, and love relationships.

PSIC 8017 Seminar on Multiple Perspectives in Research II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007. Examination of the different theoretical fields in psychology and their research. Analysis of the most commonly used assumptions, research strategies, methods and techniques.

PSIC 8018 Contemporary Social Research: Meeting with its Authors

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007, and PSIC 8017 Diverse approaches in social science research by meeting researchers and discussing their research with them.

PSIC 8019 The Social Scientist as a Judicial Expert

Three credits. Three hours of lecture a week.

Prerequisite: Master's degree in psychology or in one of the social sciences Theoretical and practical considerations in the preparation of the social scientist as a judicial expert.

PSIC 8027 Advanced Psychobiology: Fundamentals, Uses, and Controversies

Three credits.

In the period of discussion, the influences of modern biology are considered, particularly the evolutionist, etiological and systemic currents in the psychological conceptualization of the human being. Essential concepts such as assessment, adaptation, species-typical behavior, biological niche, and systemic organization. The discussion period is complemented by a hands-on laboratory when considering the controversies and applications of a psychobiological approach.

PSIC8028 Psychopharmacology

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

Prerequisites: PSIC6317 or PSIC8027.

Aspects of psychopharmacology and neurophysiology will be discussed in the course. It will include lectures on Anatomy and Physiology of the Nervous System, Synaptic Neurochemistry, Pharmacokinetics and Pharmacodynamics and on the neuropharmacological impact of different drugs on states of consciousness and behavior. The neurobiological basis of mental disorders, the mechanisms of action of different medications and the strategies used in experimental studies and clinical psychopharmacology will be studied. Anxiolytics and antidepressants, antipsychotic drugs, sedative hypnotics, and narcotics will be discussed. The content will be presented from both a basic science perspective and from a clinical orientation combining lectures and lecture discussions. The course is designed especially for students of the graduate program of Clinical Psychology and for doctoral students with a specialization in Academic-Research Psychology.

PSIC 8105 Psychology and Social Movements

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 The theoretical-practical contributions of psychology to the social movements of the last decades in Puerto Rico are analyzed.

PSIC 8115 Social Psychology of Education

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 or EDUC 6270 Examination of the crises of education in contemporary capitalist society. Critical analysis of the most important theoretical fields for its explanation. The social construction of education and the new subjectivity.

PSIC 8125 The Sociocultural Study of the Mind

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

Analysis of the sociocultural approach as a conceptual framework in the study of the mind. Discussion of the historical background of the approach and its development to the present with emphasis on the research program it has generated.

PSIC 8215 Psychology and Law

Three credits.

Analysis of basic concepts common to psychology and law.

PSIC 8216 Employment and Discrimination.

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Critical Analysis of Discrimination in Employment and Its Consequences.

PSIC 8335 Research Methods in Human Developmental Psychology

A credit. Three hours of lecture a week.

Prerequisite: PSIC 6006, 6007, 6301 and permission Discussion of the most frequently used methods in psychological research on human development. Examination of the central issues of time analysis, changes over life, the contributions of the evolutionary approach, and the relationship between research and theory development.

PSIC 8405 Linking Theory: Critical Analysis and Clinical Application

Three credits. Three hours of lecture a week.

It discusses the basic assumptions of theory based on etiological study. It is compared with other dynamic approaches and clinical applications are derived.

PSIC 8407 Rorschach Technique

Four credits. Three hours of lecture and three hours of supervised practice per week.

Prerequisites: PSIC 6020, 6401 and 6402 Introductory course in the Rorschach psychological assessment technique. It includes the theoretical basis of the latter, the principles of administration, qualification and interpretation. Provide hands-on experience.

PSIC 8409 Psychotherapeutic Research: Process and Outcome

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

Prerequisite: Teacher's permission Formal research on psychotherapy programs with children, adolescents, and adults in various modalities (such as individual, group, couples, and family). Review of research on psychotherapeutic processes and outcomes.

PSIC 8411 Psychoanalysis Seminar Part I: Adult

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Study of Freud's writings, fundamental for the knowledge of subjectivity.

PSIC 8412 Psychoanalytic Seminar Part II: Child

Three credits. Three hours of lecture a week.

Study of the basic texts of the most important psychoanalysts in the field of child psychoanalysis.

PSIC 8415 Analysis and Reflection on the Practice of Clinical Psychology in Puerto Rico

Three credits. Three hours of lecture per week and nine hours of lab. Prerequisite: PSIC 6431, 6432, 6433, and 6434 Advanced Supervised Practice in Psychotherapy (Individual, Group, Couples and/or Family, and/or Psychological Evaluations). It makes it possible to generate new approaches and models of intervention, as well as to refine clinical skills and delve into particular populations or problems. This practice course consists of three credits per semester and can be repeated up to three times.

PSIC 8416 Psychological Evaluation of Children with Disabilities

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3025, 6301, 6401, 6402, 6403 and 6404 Theoretical and Methodological Controversies on the Psychological Evaluation of Children with Disabilities. Examination of the effects of impairment on children's development, their families and the problem of social and educational placement.

PSIC 8420 Seminar: Family Study

Three credits.

Prerequisite: PSIC 6421 Critical Study of the Theoretical and Research Literature on Families and Its Applicability in Puerto Rico. Research techniques will be developed for the study of families in Puerto Rico.

PSIC 8425 Psychotherapy Supervision Seminar

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: 60 graduate credits in clinical psychology or equivalent.

Critical consideration of the theoretical and practical aspects of psychotherapy supervision. Hands-on experience in observation, research, and supervision.

PSIC 8495 Internship in Clinical Psychology

No credits.

Prerequisite: Permission from the chair of the department of psychology or coordinator of the graduate program and PSIC 6431, 6432, 6433, 6434 Supervised Practice in Clinical Psychology up to the accumulation of 2,000 hours of professional experience as the last requirement for the doctoral degree.

PSIC 8505 Psychology and Reason

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007 Analysis of the separation of body and the "software/hardware" fission of work and its consequences on the constitution and development of psychology.

PSIC 8506 Advanced Seminar on Community Psychology: Contemporary Debates

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105; PSIC 6106 Contemporary Debates on Community Psychology and Their Concretion in Research and Intervention. The discussion is framed in community psychology in Puerto Rico.

PSIC 8507 Consulting in the School Context

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6555 Study of the different roles and functions of the consultant in the school context. In-depth discussion of the basic principles and intervention models in professional psychological consulting. Emphasis on the stages of the consulting relationship and the processes that take place during the intervention.

PSIC 8508 Consulting Practice in the School Context

Zero credits. Ten hours of supervised practice and three hours of supervision.

Prerequisite: PSIC 6555.

Supervised practice in consulting in the school context in which theoretical knowledge is applied and skills of the discipline are developed. The course is complementary to consulting in the school context (PSIC 8507).

PSIC 8515 Biological Approaches to the Study of Psychopathology

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6408, PSIC 6317 or PSIC 8027 Study of biological models that have been proposed to explain various conditions of human psychopathology. Emphasis on critical analysis of research that supports or contradicts these models and the pharmacological interventions that derive from them. Analysis of the most important controversies in the application of these
y its impact on the practice of psychology.

PSIC 8516 Psychoeducational Evaluation

Three credits. Three hours of lecture per week and two hours of supervised practice a week.

Prerequisites: PSIC 6401, 6403, and 6555 Analysis of psychological and educational concepts and strategies used in psychoeducational assessment. It includes the conceptualization of what assessment is in the school context, assessments of academic achievement, basic writing skills, reading mathematics, as well as social performance and dynamic cognitive aspects and pedagogical strategies. Integrate, as fundamental aspects of psychoeducational evaluation, modalities of corrective and remedial intervention strategies. Provide for the application of concepts and the development of particular skills that allow psychoeducational evaluations to be carried out.

PSIC 8525 The Game: Reflection, Analysis and Intervention

Three credits. Two hours of lecture per week and two hours of supervised practice per week.

Prerequisite: PSIC 8405, and PSIC 8412 Study of play in children from the psycho-analytic and interactional perspective and its implications in clinical practice with children. Critical examination of other theoretical perspectives and their clinical application. Supervised practice in clinical intervention.

PSIC 8200 Fundamentals of Social Psychology and Current Issues

Three credits. Three hours of lecture a week.

This course studies the theoretical and methodological foundations of social psychology. The course discusses classical and contemporary theories, major in social psychology research, as well as new trends, such as the affective aspects of social behavior. This course is divided into four general units: epistemological and historical background, theorizing the individual in the social context, affective aspects of social dynamics and power structures, and contemporary related fields. In each unit, theoretical and methodological approaches are examined to provide students with the opportunity to develop an understanding of the field as well as research methodology from a social psychological perspective and integrate the social and affective aspects of behavior. Ethical issues related to theory, research, and psychosocial interventions are discussed. This course examines the social and affective processes that affect behavior. Face-to-face course.

PISC 8201 Human Development: The Life Cycle

Three credits. Three hours of lecture a week.

The course proposes an overview of theories and research related to the development of the human subject. The relationship between the physical, cognitive and socio-emotional development of the subject from childhood to old age will be covered. Emphasis will be placed on the theoretical and scientific foundations of developmental psychology. The student will not only have information concerning developmental processes, but also a critical understanding of the processes underlying human development. The course will emphasize the dynamic processes of development and the dialectic between psychological processes and development. Face-to-face course.

PSIC 8202: Psychological Approach to the Study of Cognitive and Affective Processes

Three credits. Three hours of lecture a week.

This course studies the main theoretical models used to explain the human cognitive and affective aspects of behavior. The emergence of cognitive psychology is examined by considering socio-historical transformations. Information processing models, genetic epistemology, historical-cultural perspective, and affective processes are analyzed. Cognitive processes such as attention, sensation, perception, memory, language, and problem-solving are discussed. In particular, it analyzes how affective processes and cultural differences shape cognitive processes and human behavior. Face-to-face course.

PSIC 8203 Models and Techniques of Psychotherapy

Three credits. Three hours of lecture a week.

This course focuses on the exposition of the different theoretical models of psychotherapy, as well as their origins and evolutions. Once the basis of the theoretical models is established, current therapeutic approaches will be examined from a critical point of view, emphasizing the conceptual problems, methodology, and alternatives to deal with such problems. Evidence-based psychotherapeutic approaches used with different populations will also be discussed. Face-to-face course.

PSIC 8204 Personality and Human Diversity

Three credits. Three hours of lecture a week.

This course addresses the categories of personality, subjectivity and subjectivation from a critical and complex approach. It examines the paradigmatic assumptions underlying theories of personality and traditional approaches to the study of the human being. It proposes a conceptual approach that includes debates on the human from the paradigm of complexity, constructivism, psychoanalytic theory and updated foundational psychological premises. It explores the application of this conceptual approach to the human, pertinent in contemporary clinics, as well as particular considerations of the Puerto Rican population and the inescapable sensitivity to differences and cultural and individual diversity necessary in psychological formation. Face-to-face course.

PSIC 8205 Advanced Psychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401 and PSIC Training in the administration and interpretation of various techniques used in personality assessment such as: TAT, Bender Gestalt and Drawing the Person. It includes supervised practical work, laboratory work, and the submission of written reports. Face-to-face course.

PSIC 8206 Advanced Psychological Assessment Practice

A credit.

Prerequisites: PSIC 6401 and PSIC 6403 Corequisite PSIC 8205 Intensive practice in the administration and evaluation of the following tests: Thematic Apperception Test (TAT), Apperception Test for Children (CAT), Bender Gestalt Visual-Motor Test, Human Figure Drawing among other tests. To the above are incorporated the tests contained in the Psic course. 6401; Psychological Assessment I, worked on in the practice of this course, Psic. 6403. Personality inventories such as the *Personality Assessment Inventory (PAI)*, the *Minnesota Multiphasic Personality Inventory-2 (MMPI-2)* and Rorschach basics are also included. Emphasis is placed on the clinical approach of the responses of the subjects with whom we work, which are part of their discourse and life history. Face-to-face course.

PSIC 8300 Advanced Clinical Psychology Practice

A credit. Three hours of supervised practice.

Prerequisites: PSIC 6434 This advanced clinical practice in psychotherapy (individual, group, couples, and/or family, and/or psychological assessments), allows students to increase their face-to-face clinical hours and refine their clinical skills. During this advanced internship, students will also be able to increase exposure to diverse populations and rotate into externship clinical internships. Face-to-face course.

PSIC 8301 Advanced Family and Couples Therapy

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6432 & PSIC 8203 Corequisites: PSIC 8302 This course provides the student with an overview of the basic concepts and fundamentals of family and couples therapy. They will also become familiar with the various systemic theoretical models. The different techniques used by the different theoretical models will be emphasized. In the same way, they will develop group research skills that respond to a family or couple problem. Face-to-face course.

PSIC 8302 Advanced Family and Couples Practice

A credit. Supervised practice.

Prerequisites: PSIC 6432 and PSIC 8203 Corequisites: PSIC 8301 This course is a clinical practice where the student has the opportunity to acquire the advanced clinical skills to work with couples and families from a systemic perspective. During this clinical practice, the student will have interventions with clinical cases using one or more systemic theoretical models. This practice should be taken simultaneously with the theoretical course of advanced therapy for families and couples. Face-to-face course.

PSIC 8303 Research Practice

A credit.

The goal of this course is to foster the research experience in students. These will join a faculty member's project to acquire and refine research skills. They will be working under the supervision of a mentor/researcher. Students are required to attend one hour per week of research under the mentorship of their supervisor. Each supervisor's research project will have a brief description of their research. This course can be taken more than once to continue with a research project. In addition, their respective research supervisors will add additional references to the course. Face-to-face course.

PSIC 8304 Clinical Supervision Seminar

A credit.

Prerequisite: PSIC 6433 This course provides the student with an overview of clinical supervision and the different approaches and models of supervision applied to clinical psychology. The student is exposed to the development of supervision as a fundamental part of the training of a psychologist. The student will be able to appreciate different conceptualizations of clinical supervision according to each theoretical model and its particular objectives, approaches, and strategies. In addition, you will learn the difference between supervision and consulting. In addition, the student will have the opportunity to create and develop instruments to measure variables that should be present in each psychotherapeutic model. There will be integration in theory and research in the search for research publications on psychotherapy and supervision. Face-to-face course.



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DEGREE: Master of Arts with a specialty in Industrial Organizational Psychology

TEACHING STAFF:

Cruz Bermúdez, Nelson D., PhD, Brandeis University, 2007, Assistant Professor.
Research topics: Neuroscience of drug addiction and mental disorders; neuroeducation.

Dávila Marrero, Elixmahir, PhD, University of Puerto Rico, 2005, Assistant Professor.
Research topics: Neuropsychological assessment and neurocognitive rehabilitation of neurodegenerative diseases and TBI. Use of video games as a cognitive rehabilitation tool with children and adolescents. Alternative education as a current educational strategy. Standardization of psychological testing for the Puerto Rican population.

Espada Brignoni, Teófilo, PhD, University of Puerto Rico, 2015. Research topics: Culture and subjectivity, Social movements, Empathy, Attributions and discourses in everyday life, Processes of subjectivation, Art and community intervention, Psychology and literature, Music and society.

Galarza García, Laura, PhD, Rice University, 2000, Professor. Research Topics: Industrial-Organizational Psychology; Comparative and International I/O Psychology; Aerospace Psychology; strategy and organizational change; Selection, development and management of individual and organizational performance; Work engagement.

García Ramos, Tania, PhD, Universidad Complutense de Madrid, 1995, Professor. Research Topics: Industrial Organizational Psychology; Psychology of work and organizations; Work and subjectivity; Theorizing around work; research methodology; Epistemology of complexity.

Gómez Escudero, María de los Ángeles, PhD, Université de Paris V, 1991, Professor. Research topics: Parenting and filiation; the body in speeches; Problems of Psychopathology, Psychoanalytic Clinic.

Jiménez Torres, Aida, PhD, University of Puerto Rico, 1993. Associate Professor.
Research Topics: Family and Couples: Attachment: Multiculturalism and Psychotherapy.

Martínez Mejías, Sylvia, PhD, University of Puerto Rico, 1998, Professor. Research topics: Studies in affective bonding and attachment theory; Court expertise in custody and special education cases; Evaluation in early intervention and developmental deficiencies.

Méndez Castillo, Milagros, PhD , Fordham University, 1993, Associate Professor. Research topics: Sexuality in adolescents, Violence in schools, Health psychology, Teaching psychology.

Miranda Gierbolini, Dolores, PhD, Temple University, 1987, Professor. Research topics: Development of sustainable communities, Social movements, Social policy, Political subjectivations, critical citizenship and social change, The human in the ecological complex, The hidden faces of violence.

Morales Arandes, Edgardo, Ed.D, Boston University, 1986, Associate Professor. Research topics: Language and metaphor as models for the construction of socio-organizational and personal realities; participation and democracy at work; relational constructionism; constructionist approaches to psychotherapy; dialogic and collaborative practices; evidence-based psychotherapy; qualitative research.

Nina Estrella, Ruth V., PhD, National Autonomous University of Mexico, 1991, Professor. Research topics: Interpersonal communication, family, couple relationships and sexuality and adolescence.

Ruiz Alfaro, Frances, PhD, University of Puerto Rico, 2014. Assistant Professor. Research topics: Affective bonding; Discourse and Literature, Subjectivity; Autism Spectrum Disorder Evaluation.

Santiago Estrada, Sara, PhD , University of Puerto Rico, 2013. Associate Professor. Research Topics: Transformations at Work; Study of subjectivities in work scenarios, educational organizational scenarios; Change in organizations.

Tirado Santiago, Giovanni, PhD, McGill University, 2006, Associate Professor. Research topics: Neural plasticity; biopsychology of learning and memory; Neuroimaging of cognitive functions in major depression.

Vale Nieves, Otomie, PhD, University of Puerto Rico, 1993, Professor. Research Topics: Technology and Learning; development, subjectivity and historical context; critical psychology; language and subjectivity; construction of the youth, technology and gender.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Possesses, or is in the process of completing no later than the summer of the year in which you intend to commence graduate studies, a bachelor's or bachelor's degree from an accredited institution or university.
2. Have a general academic index of not less than 3.00 points (or its equivalent in the grading system of the university of origin) or a general academic index (baccalaureate and master's degree) of no less than 3.00 points if you have a master's degree.
3. Academic index of no less than 3.00 points in: (a) General or Introductory Psychology; (b) Social Psychology or a course related to the area of specialty to which you are applying; (c) Elements of Statistical Reasoning; (d) Psychological Research Methodology.
4. Be fluent in Spanish and English.
5. Attend an interview.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself* platform.
2. Two official transcripts.
3. Provide a *resume*.
4. Write an essay.

Other Requirements (for those candidates who qualify)

1. Group interview for which you will be summoned.

GRADUATION REQUIREMENTS:

In addition to the general requirements for earning a master's degree from the Rio Piedras Campus, students must complete one semester of residency.

PROGRAM OF STUDY:

Code	Requirements	Credits
Core Courses		10
PSIC 6005	Theories of Personality	3
PSIC 6006	Statistics Applied to Psychology	3
PSIC 6007	Seminar: Psychological Research Methods	3
PSIC 6030	Proseminar in General and Applied Psychology: Ethical Issues in Psychology	1

Code	Requirements	Credits
Courses in the area of specialty		22
PSIC 6025	Psychosocial Approach to the Study of Organizational Behavior	3
PSIC 6026	Psychological Approach to Development and Change in Organizations	3
PSIC 6040	Proseminar in General and Applied Psychology: Principles of Supervision	1
PSIC 6050	Proseminar in General and Applied Psychology: Principles of Consulting	1
PSIC 6080	Proseminar in General and Applied Psychology: Employee Evaluation	1
PSIC 6201	<i>Practicum I</i>	3
PSIC 6205	Industrial Social Psychology	3
PSIC 6206	Construction of Psychological Tests	3
PSIC 6216	Psychological Testing Construction Laboratory	1
PSIC 6209	Psychosocial Aspects of Labor Regulations	3
Free Electives		9
Comprehensive Examination		0
Thesis		3
PSIC 6010 or PSIC 6995	Thesis Seminar or Research Practicum	3
PSIC 6008	Thesis work	0
Total Credits		44

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PSIC 6005 Theories of Personality

Three credits.

Study of theories on the structure, dynamics and development of personality, emphasizing contemporary approaches. Critical examination of problems, theories, and research that help clarify the role of motivation in personality.

PSIC 6006 Statistics Applied to Psychology

Three credits.

Statistical methods and their applications in psychological research. Data collection, organization, and analysis; frequency distribution; measures of central tendency, variation, asymmetry, and kurtosis; theoretical, binomial, normal, and Poisson distributions; sampling, sampling distribution, hypothesis testing for large and small samples; point-based and interval-based estimates.

PSIC 6007 Seminar: Methods of Psychological Research

Three credits. Three hours of lecture a week.

Discussion of the basic methods of research in the field of psychology, with examples of the most frequently used techniques. Discussion of topics such as controls in psychological research, the concept of explanation and prediction, the practicalities of different research problems, the selection of areas, methods, and topics in psychological research.

PSIC 6030 Proseminar in General and Applied Psychology: Ethical Issues in Psychology

A credit. Sixteen lecture hours per semester.

The course will familiarize the student with the problems and considerations to be taken in the construction, development and application of an ethical system for the profession, the basic premises, notions and ethical implications of using various models of man will be analyzed as illustrated with the various psychological paradigms. The discussion of cases, situations and paradoxes in the practice of professional psychology will be used.

PSIC 6025 Psychosocial Approach to the Study of Organizational Behavior

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program The following topics are covered relatively quickly: organizational design, motivation, satisfaction, communication, conflict, and others. It delves into the discussion of some methods that have been used to try to facilitate change in organizations. It critically evaluates current administrative practice and tries to identify and question the ideology or set of values that informs it. It illustrates the negative consequences of such an ideology and raises the possibility that the tendency of human beings to unilaterally control their situation leads precisely to organizational ineffectiveness. We are invited to invent and explore models of control that lead to effectiveness.

PSIC 6026 Psychological Approach to Development and Change in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 Explores various models of producing information pertinent to organizational development and change. It is hoped that these models will be compared and evaluated so that the student will become familiar with them and feel able to begin to explore the application of some of them.

PSIC 6040 Proseminar in General and Applied Psychology: Principles of Supervision

A credit. Sixteen lecture hours per semester.

Some of the most relevant theories on management and supervision and important aspects of supervision such as objectives, work planning, control, coordination and evaluation will be discussed. The unit will be conducted mainly through lectures, case discussions, and simulation of roles and real situations. Face-to-face, hybrid and online course.

PSIC 6050 Proseminar in General and Applied Psychology: Principles of Consulting

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with consulting and counseling service models in order to know and apply the basic principles of these models to situations that require the advice of a psychologist.

PSIC 6080 Proseminar in General and Applied Psychology: Employee Evaluation

A credit. One hour of lecture per week.

Study of employee evaluation as a system: its methods and techniques. Face-to-face, hybrid and online course.

PSIC 6201 *Practicum I*

Three credits. One hour of lecture and twenty hours of laboratory per week. Students will dedicate at least 120 hours to practical work in an organization where they apply the concepts and techniques of the social-industrial program. Students will meet one hour a week with the supervising teacher to discuss problems and consult on references to study. As part of the course, each student will prepare a paper that is publishable in a scientific journal.

PSIC 6205 Industrial Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Topics pertinent to the world of work with high social content are covered. Included are the following topics: historical significance of work and needs that are met by work, technology and job satisfaction, formal and informal organization, job analysis, recruitment and selection, introduction to performance evolution and training, as well as termination of employment (layoff, retirement, and exit interviews).

PSIC 6206 Construction of Psychological Tests

Three credits. Two hours of lecture per week. Prerequisite: PSIC 6006

Theory of Constructing Aptitude Tests, Intelligence, Exploitation, personality and interests. Practice in the preliminary development of one of these types of tests.

PSIC 6216 Psychological Testing Construction Laboratory

A credit. One hour of lab time per week.

Prerequisite: Take simultaneously with PSIC 6206 Laboratory for Question Writing, Item Analysis, Determination of Reliability, Standards, Equivalences, and Validity in Psychological Tests.

PSIC 6209 Psychosocial Aspects of Labor Regulations

Three credits.

Prerequisite: Admission to the Critical Analysis of Labor Regulations program in areas such as health, safety, hours, wages, labor unions, and others.

PSIC 6010 Thesis Seminar

Three credits.

Prerequisite: PSIC 6007 Seeks to hone the creative and critical capacities of participants through the cultivation of dialogue and scientific exposition, both oral and written. It requires the preparation of candidates for the critical examination before the faculty panel and fellow students.

PSIC 6995 Research Practicum

One to four credits per semester.

Prerequisite: Be enrolled in the graduate program and permission from the professor. The course is aimed at developing the necessary skills for psychological research through their active participation in the development of research projects, under the supervision of a professor. The course can be repeated with credits, without limit with the approval of the research professor.

PSIC 6008 Thesis Work

No credits. Meeting by agreement.

Prerequisite: PSIC 6010 The course is designed for those students who need guidance and advice from their thesis advisors in relation to the difficulties encountered in the different phases of the thesis research work and in the preparation and writing of the thesis. The student will enroll in the course each semester in which he/she is carrying out his/her thesis work.

OTHER COURSE DESCRIPTIONS:**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, 3005, 3006 Introduction to the theory and production of life histories for psychosocial analysis. The theoretical presuppositions, the salient methodological themes, 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 socio-cultural 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 Overview of the Development of Psychiatric Knowledge and Its Relationship to Institutional Practices.

PSIC 5007 Psychology of Prevention

Three credits. Three hours of lecture a week.

Prerequisite: Undergraduate students must be in their fourth year and 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 areas 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 sign theory, of the genealogy and structure of linguistic semiosis, of the semiotics of text, of nonverbal communication, and of aesthetics and visual communication. It explores the relationship between semiotics and psychology.

PSIC 5009 Psychology of Cinema

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3003 or 3005 It studies individual and collective ways of life and aspirations, the search for meaning, and acceptance or resistance to modes of social ordering.

PSIC 5015 Introduction to Freud's Seminal Texts: A Critical Reading

Three credits. Three hours of lecture a week.

Prerequisite: 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.

PSIC 6009 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The purpose of this course is to give the student a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, physiological sensation and perception, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area

PSIC 6015 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

The purpose of this course is to give a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, sensation and perception, physiological, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area.

PSIC 6020 Proseminar in General and Applied Psychology: Principles of Psychological Measurement

A credit. Sixteen lecture hours per semester.

This module aims to expose the student to the basic principles of psychological assessment in its broadest sense. The emphasis will be on the discussion of the concepts of validity, reliability, normalization and standardization, among others.

PSIC 6060 Proseminar in General and Applied Psychology: Evaluation of Programs and Services

A credit. Sixteen lecture hours per semester.

This module invites you to review the existing literature on evaluation techniques and strategies in different contexts: government agencies, educational programs, community action programs, and services of a preventive or corrective nature in general.

PSIC 6070 Proseminar in General and Applied Psychology: Puerto Rican Society and Culture

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with the effect of variables resulting from Puerto Rican society and culture on individual and group behavior. Emphasis is placed on the analysis of situations that require the intervention of the clinical psychologist in the light of these variables.

PSIC 6090 Proseminar in General and Applied Psychology: Identification of Needs and Resources

A credit. One hour of lecture per week and one hour of laboratory time per week. The course attempts to familiarize the student with various methods or models of identifying communal needs and resources. It also attempts to provide critical elements to evaluate different models and put them in contact with the different options used by public agencies.

PSIC 6105 Advanced Social Psychology

Three credits. Three hours of lecture a week.

The course is organized around the problem of the social construction of reality. An attempt is made to develop both a theoretical and methodological framework for the study of it. For this purpose, several theories are studied, such as ethnomethodology, symbolic interactionism, role theory; and it will delve into areas such as deviance and social control, attitudes, attribution, social comparison, social movements, and ideology. An effort will be made to use Puerto Rican literature to illustrate and understand the social construction of reality.

PSIC 6106 Community Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Department It is intended to prepare the future psychologist in the analysis and solution of psychosocial problems affecting the community.

PSIC 6107 Intercultural Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Psychology This seminar aims to highlight the extent to which social psychology can be subject to cultural variations. Social psychology research in different cultures is studied, analyzed comparatively, and the implications of the findings for existing theories are considered. Emphasis is placed on research on Puerto Rican culture, and an attempt is made to replicate at least one foreign study in our culture.

PSIC 6108 Psychology, Society and Health

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: PSIC 6106 Analysis of the socio-economic conditions, organizations, and social visions that affect the health and disease situation in Puerto Rico and other countries in the Americas. The role of the psychologist in relation to this problem.

PSIC 6109 The Group as a Means of Social Intervention

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: PSIC 6105, 6106 The application of group theories to social life to facilitate psychological, social, organizational, institutional, and community change will be studied.

PSIC 6110 Seminar on the Psychological Analysis of Social and Cultural Change in Puerto Rico

Three credits. Three hours of lecture a week.

The seminar will be oriented towards the purpose of gathering pertinent information regarding the educators of change in Puerto Rico, such as: the search for the historical background of Puerto Rican society in its basic outlines: population, emigration and immigration, urban planning, poverty, slums, social stratification, education, housing, employment and unemployment, industrialization and modernization. These issues or indicators of change, among others, will be analyzed on the basis of objective and verifiable information that emerges from the examination of the literature of studies carried out here and abroad and with a psychological emphasis. It will explore how changes in these areas affect interpersonal relationships, the development of human beings, the formation of beliefs and values, and coexistence in Puerto Rico.

PSIC 6115 Analysis of Strategies for Conflict and Crisis Management

Three credits. Three hours of lecture per week Conceptual and formal analysis for the management of interpersonal, group and community conflicts.

PSIC 6116 Practice in Conflict and Crisis Management Strategies

No credit.

Prerequisite: Concurrent with PSIC 6115 Supervised Practice in Interventions Aimed at Interpersonal, Group, and Community Conflict Management.

PSIC 6120 Seminar on Community Psychology and Social Policy

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director and instructor The course attempts to examine the content of public policy in the areas of health, education, and social welfare as it applies to community psychology in Puerto Rico. A thorough understanding will allow for effective planning of psychosocial intervention strategies.

PSIC 6131 Community Practice I

Three credits.

The purpose of this practice is to expand the theoretical framework discussed in the Advanced Social Psychology I and Community Psychology courses. It also aims to promote the acquisition of intervention skills in communities, formal groups, organizations, institutions or geographic communities, data collection and other aspects associated with research.

PSIC 6132 Community Practice II

Three credits.

This practice aims to expand the intervention and research skills acquired in Community Practice I.

PSIC 6133 Community Practice III

Three credits.

Prerequisite: PSIC 6132 This internship aims to refine and expand the skills acquired in the Community Practice I and II courses and to offer students the opportunity to acquire new community work skills in a new work scenario

PSIC 6195 Social Psychology Seminar

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Study of current issues and issues in social psychology and related areas.

PSIC 6202 Practicum I I

Three credits. Three hours of supervision and eight hours of practice per week. Prerequisite: PSIC 6201 and 6205 Practice in governmental and private organizations with particular attention to the organizational problems of such institutions. The course includes 120 hours of practice, in addition to weekly meetings for supervision.

PSIC 6215 Psychosocial Approach to Organizational Conflict

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of psychological and sociological theories of organizational conflict and strategies for their solutions.

PSIC 6218 Psychology and Occupational Health

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6205 or equivalent The Occupational Psychology and Health course explores the workplace with an emphasis on the health, safety, and well-being of the workforce. It emphasizes the interaction of the worker and his or her workplace and its effects on the worker's life in and outside the company. The course explores topics such as: healthy organization, work-family balance and spillover effect, health and productivity, stress and health, violence at work, physiological aspects of illness, safety and accidents, as well

as intervention alternatives in work scenarios. As part of the course activities, students will develop a group intervention in an organization identified by them as a contribution to the organization and the quality of life of its members.

PSIC 6225 Psychological Assessment Techniques in Personnel Selection

Three credits. Three hours of lecture a week.

Discussion of the main psychological assessment techniques used in personnel selection. Face-to-face, hybrid and online course.

PSIC 6227 Social Psychology of Work and Production in Contemporary Capitalist Society

Three credits. Three hours of lecture a week.

Analysis of the theories of alienation, communication and organization in relation to the changes in the economy and society, brought about by the contemporary crisis. The perspectives of social psychology in the technological age will be studied.

PSIC 6301 Advanced Developmental Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree in Psychology or counselor's permission Study of the basic principles of human development with emphasis on childhood and adolescence. Critical consideration of recent scientific findings. Special attention is given to the problems and particularities of children and adolescents in Puerto Rico.

PSIC 6302 Advanced Developmental Psychology

Three credits.

Prerequisite: Baccalaureate and with permission of the teacher Based on the study of the principles that govern human development, from conception to the end of adolescence. Subsequent developmental stages will be considered, such as early adulthood, middle adulthood, and the arrival of old age. Parallel to the study of the evolution of the human being during these periods, the psychological circumstances that accompany the attainment of fullness and the descent of life are discussed.

PSIC 6305 Advanced Statistics and Methodological Designs

Three credits. Three hours of lecture a week. Statistical analyses and designs, and the theory thereof.

PSIC 6306 History and Systems of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The course examines the history of psychology, from ideas in the countries of the ancient East to contemporary psychology. An attempt is made to identify the existing historical ties of the latter. Finally, the state of the discipline and its history in Latin America are examined.

PSIC 6311 Teaching Psychology

Three credits. Three hours of lecture a week.

This course focuses on the teaching and assessment of the general psychology course. Innovations in teaching and instructional methods are discussed. The central themes and debates of general psychology, course content, ethics in teaching, and assessment of achievement are discussed.

PSIC 6312 Practice in the Teaching of Introductory Psychology

Three credits. Eight hours of practice per week.

Prerequisite: PSIC 6311 Course designed to provide supervised experiences and skills in teaching psychology. The course includes supervised practice in the different teaching methods.

PSIC 6315 Practice in the Teaching of Advanced Courses in Psychology

Three credits. Twelve hours of supervised practice per week.

Prerequisites: PSIC 6312 and Teacher's Permit Organization and teaching of an advanced undergraduate psychology course under the supervision of a professor. It includes a discussion of the philosophical foundations of teaching and the most recent aspects of the topic to be taught.

PSIC 6317 Advanced Physiological Psychology

Three credits. Three hours of lecture a week.

The course emphasizes a study of the relationship between the physiological system of an organism y conduct. Special attention is paid to the functioning of the central nervous system y its influence on behavior.

PSIC 6318 Human Learning

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The course will broadly cover the verbal memory and verbal behavior of humans. It will include a brief study of the historical background and general methodology; The remainder of the course will consist of the study of various models of memory and/or language interpolation.

PSIC 6325 Psychological Approach to the Study of Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Basic theories about the relationship between mental events and human behavior and effectiveness. The importance of cognitive processes in psychological work in Puerto Rico is emphasized.

PSIC 6327 Use and Application of the Computer to Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission Introduction to the common terminology, principles, and applications of computers to psychological work.

PSIC 6401 Psychological Evaluation I

Three credits. Two hours of lecture per week.

Price requirement: PSIC 6020, 6405 and 6408.

Critical analysis of the theoretical and practical aspects of psychological assessment by means of the intelligence test. It includes the historical, conceptual and ideological aspects of this mode of evaluation; the Stanford-Binet and Wechsler tests (for children and adults); its uses, scope, limitations, administration, valuation and interpretation.

PSIC 6402 Psychological Evaluation II

Three to four credits. Two hours Prerequisite: PSIC 6401, 6403 Training in the administration and interpretation of various techniques used in personality assessment, such as TAT, Bender-Gestalt, and Draw a Person. It includes supervised practical work, laboratory work, and the submission of written reports.

PSIC 6403 Psychological Assessment Practice I

A credit. Three hours per week of supervision sessions and twelve hours of practice.

Prerequisite: PSIC 6020, 6405, 6408 and be enrolled in PSIC 6501 Supervised experience in administering, assessing, and interpreting intelligence tests, as well as writing psychological reports.

PSIC 6404 Psychological Assessment Practice II

No credit. Four to eight hours of practice.

Prerequisite: PSIC 6401, 6403, and be enrolled in PSIC 6402.

Supervised practice in the administration and interpretation of tests such as TAT, CAT, Bender-Gestalt, Drawing a Person, among others.

PSIC 6405 Theories of Personality and Psychotherapy

Three credits.

Discussion of the basic concepts in personality theory and psychotherapy with particular emphasis on existential and phenomenological approaches. Emphasis is placed on the pertinence and applicability of the concepts and techniques discussed, taking into consideration our diverse social idiosyncrasies and the real situation in which the Puerto Rican psychotherapist renders his or her services.

PSIC 6406 Psychotherapy Practice

No credit. Eight hours of practice per week.

Prerequisite: Enrolled in PSIC 6405.

Supervised practice in individual or group therapy. Practice is an integral part of the PSIC 6405 course.

PSIC 6407 Emergency Clinic and Short-Term Psychotherapy

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission The course proposes the study of a clinical and ethical knowledge that allows, beyond the so-called intervention, a positioning that centrally welcomes the word of the subjects who come to the clinic at a time of intricate conscious and unconscious phenomena that overflow their capacity to manage and tolerance of anguish and encourage them to connect with their crisis and their symptoms as one in which they are able to communicate with their crisis. Not only do they have an impact on external events, but as a production of their own complexity, subjectivity and discourse.

PSIC 6408 Principles of Psychopathology

Three credits. Three hours of lecture a week.

Discussion of various models of psychopathology (biophysical, intrapsychic, phenomenological, behavioral, and sociocultural) with particular emphasis on antecedents, development, and patterns of symptoms. Psychotherapeutic aspects, when pertinent to diverse patterns of psychopathology and sociocultural idiosyncrasies, are also discussed.

PSIC 6409 Practice in Psychopathology

No credit. Four hours of practice.

Prerequisite: Enrolled in PSIC 6408.

Observation, interviews, preparation of histories, diagnosis and clinical discussion of behavioral disorders. Practice is an integral part of the PSIC 6408 course.

PSIC 6410 Advanced Seminar on Behavior Modification

Three credits. Three hours of lecture per week; Practice (optional) Prerequisite: PSIC 6417 Critical and intensive study of the theoretical framework of behavior modification principles and the therapeutic effectiveness of behavior modification techniques.

PSIC 6416 Group Therapy

Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: Be a student of the graduate program in psychology The course will emphasize the theoretical and practical aspects of group therapy and offer a human laboratory for client and therapist experiences in a group psychotherapy environment.

PSIC 6417 Principles of Behavior Modification

Three credits. Three hours of lecture and four hours of practicum Prerequisite: Be a student of the graduate program in psychology Study of the basic psychological principles that govern human behavior, particularly those derived from the psychology of learning. Great emphasis will be placed on the application of social learning principles to the modification of psychotic, neurotic, and maladjusted behavior in clinical and educational institutions. Special attention will also be given to the critical discussion of recent scientific findings in behavior modification with particular interest in the applicability of these findings to maladjustment problems in Puerto Rico.

PSIC 6418 Childhood Behavioral Disorders

Three credits. Two hours of lecture per week; "Practicum" by agreement Prerequisite: Permission from the Department Directorate Problems of etiology, classification, and management of children who manifest extreme isolation, boundless behavior, strange and chaotic tendencies, and behavior determined by organic disorders. Theoretical frameworks, assessment techniques, and diagnosis are considered. Practice opportunities will be provided. Lectures will be offered by guest consultants.

PSIC 6421 Family Therapy I

Three credits. Two lectures and three labs a week.

Prerequisite: PSIC 6405, 6408 Study of some systems of family therapy, their theoretical models, techniques used, and case analyses. Students are offered the opportunity to live simulated family therapy experiences (laboratory) and to conceptualize about their own experiences within the different family systems that they share personally and professionally.

PSIC 6423 Family Therapy Practice I

Three credits. Three to four hours of practice.

Prerequisite: PSIC 6405, 6408, and 6421 Observation Experiences of Family Therapy Sessions; Opportunity to work with families as a cotherapist offering family therapy. Participation in Practice Center meetings, case discussions, and supervisory meetings.

PSIC 6431 Clinical Psychology Practice I

No credit. Twelve hours of supervised practice per week.

Supervised practice in clinical observation, interviews, preparation of reports and histories, and participation in case conferences. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6432 Clinical Psychology Practice II

Two credits.

Prerequisite: PSIC 6431 Supervised practice in intellectual and personality functioning assessments, diagnostic interviews, case conference participation, counseling and individual psychotherapy with special focus on short-term problem-solving and crisis intervention. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6433 Clinical Psychology Practice III

Two credits.

Prerequisite: PSIC 6432 Supervised Practice in Group Individual Psychological Functioning Assessments and Individual Psychotherapy. Supervised experiences of individual psychotherapy, psychodiagnosis, and group therapy will be emphasized in this practice. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6434 Clinical Psychology Practice IV

Two credits.

Prerequisite: PSIC 6433 Practice requires 12 hours of work per week in addition to meetings by appointment. It requires twelve hours of work a week, in addition to meetings with the clinical supervisor.

PSIC 6436 Intramural Practice in Clinical Psychology

Three credits.

Prerequisite: Principal's permission.

Supervised practice in psychotherapy (individual, group, couples and/or families) and psychological evaluation. This internship is carried out in the facilities of the University Center for Services and Psychological Studies (CUSEP) during the summer sessions.

PSIC 6437 Introduction to Clinical Practice

Three credits. One hour of lecture, one hour of discussion, and five hours of supervised practice per week.

The clinic is structured around concepts and foundations that provide a basis and contextualize the experiential (practical) experience. In this course, the basic concepts will be presented in a theoretical-practical-therapeutic integration. This will be carried out specifically through the discussion of different aspects: theoretical frameworks, clinical observation, interview styles and processes, clinical conceptualization, therapeutic processes, and clinical contexts.

PSIC 6505 Dream Module

A credit. Three hours of lecture a week.

Prerequisite: Director's Permission The meaning of dreams from the physiological and psychological point of view, Jung's theory of dreams and that of Dr. Efrén Ramírez. Method of dream interpretation designed by Dr. Ramírez, and its usefulness in terms of personal development, as a method of psychotherapy and as a method of group therapy.

PSIC 6506 Colloquium on Topics in Psychology

No credit. One hour of meeting per week.

Lectures, discussion and exchange of ideas between professors of the Department, students and guest lecturers. The student will enroll each semester.

PSIC 6507 The Psychology of Women

Three credits. Three hours of lecture a week.

This course is organized around the question of whether there is such a thing as a female psychology and what its biological and social determinants are. The acquisition of sex roles and their historical determination and cross-cultural relativity are studied. The literature is reviewed in relation to the biological, sexual, cognitive and affective functioning of women. In addition, it studies the development of feminist movements, the socio-political situation of women in industrial society, and the impact of these changes on relations between the sexes, the family, and Puerto Rican society.

PSIC 6510 Seminar on the Family in Puerto Rico

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

Prerequisite: Permission from the Director Analysis and Research of the History and Psychosocial Aspects of the Family in Puerto Rico. The main purpose of the seminar is to promote psychosocial research on the family and its problems.

PSIC 6515 Intelligence, Creativity, and Cognitive Complexity

Three credits. Three hours of lecture a week.

The concepts of intelligence, creativity, and cognitive complexity will be contrasted and the relevance of these concepts for today's Puerto Rican society will be determined.

PSIC 6516 Supervised Reading Course

Three credits.

Prerequisite: Teacher's permission The readings revolve around a topic chosen by the students and the teacher. The student covers the concepts with the teacher's approval and prepares a monograph on the concept of his/her preference.

PSIC 6517 Advanced Psychopharmacology and Neurophysiology of Drug Use and Abuse

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Knowledge of the psychophysiological system and its alteration through the use of chemical substances is deepened. Students will become familiar with the chemical and pharmacological aspects of the substances that are abused, as well as those used in the different treatment modalities (methadone, naltrexone, etc.). Particular attention will be given to the study of human behavior and its interaction with the action of substances on the psychophysiological system.

PSIC 6518 Psychology of the Young

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6301 Study of theories and research that explain typical youth processes, taking into account the cultural variables that contribute to the formulation of such theories and the design of such research. Discussion of the physical, cognitive, social and affective aspects

of development, as well as the evolution of the identity and sexuality of the young person. Analysis of family processes, school experience, relationships with peers and the influence they have on development.

PSIC 6525 Psychological Analysis of Power

Three credits. Three hours of lecture a week.

Analysis of the concept of power at the individual level (power traits, power motivation, foci of control), at the group level (leadership, relations between the sexes). Some emphasis will be given to the communal and institutional levels.

PSIC 6526 Spirituality in Psychology

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

Prerequisites: PSCI 3005 or 3003 This graduate-level course examines contemporary conceptualizations and debates surrounding the notion of spirituality in the work of psychology, particularly its integration into therapeutic practice and in the preparation of the helping professional. It reviews the ethical premises for psychology as it integrates spirituality into its research and practice.

PSIC 6527 Fundamentals of Human Sexuality

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director This introductory course aims to offer insight into human sexuality. It includes processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective and in its social dimension. The student will examine some sexual issues in Puerto Rican society.

PSIC 6528 Violence and Complexity

Three credits. Three hours of seminar per week.

The purpose of this course is to contribute to the production of a conceptual framework in which to situate violence as a complex, socially constructed phenomenon. The relationship between psychic life and social life will be studied from the centrality that the signifier of violence has acquired in our contemporaneity. This includes a close examination of the relationships between the history of the constitution and identifications of the subject (subjectivation) and the world we share with others (intersubjectivity) and its relation to violence. The contributions of the knowledge produced by the psychoanalytic discourse for the analysis of violence will be examined and dialogic relations between the psychoanalytic discourse and other contemporary fields of theorization such as poststructuralism, deconstructivism, social constructivism and Lacanian psychoanalysis will be promoted. The contributions of traditional psychology to the subject of violence are critically examined.

PSIC 6529 Review and Critical Analysis of the Psychological Literature in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Have passed a minimum of 9 graduate credits.

Review of research and publications that have been done in Puerto Rico, their theoretical frameworks, methodology and implications to understand the psychological reality of Puerto Ricans. A framework for analysis and critique will be provided.

PSIC 6535 Theoretical Controversies on Human Development: Early Childhood

Three credits.

Different aspects of human development from birth to seven years of age will be examined. The approach is epistemological, emphasizing the basic assumptions of the discipline, the fundamental controversies, and the ideological and philosophical aspects of the theories examined.

PSIC 6537 Psychopathology of Affective Development in Childhood: Psychoanalytic Perspective

Three credits.

Prerequisite: Permission of the director To provide a clinical view of the child's affective development from a psychoanalytic perspective, allowing knowledge of child psychopathology.

PSIC 6545 Program Evaluation and Consulting

Three credits. Three hours of lecture a week.

Introduction to the basic concepts and methods of consulting and program evaluation and the ethical and evaluative controversies surrounding them. Emphasis is placed on developing skills in these areas and applying them in public service programs and private agencies for non-pecuniary purposes.

PSIC 6546 Analysis of Interventions in Organizations: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 or its equivalent, permission of the director or PSIC 6026 Analysis of interventions carried out in public and private organizations in and outside Puerto Rico, in light of the conceptual models that guide them. Different intervention models, their purposes, conceptual frameworks and ethical principles are presented. Analysis of the current applications of these and other models, paying particular attention to the congruence between theory and practice.

PSIC 6555 School Psychology

Three credits. Three hours of discussion a week.

General orientation on school psychology, focusing the discussion on the public education system of Puerto Rico and on the ethical principles of the discipline. It focuses on the various functions that are carried out in professional practice in this area and on the historical and future development of school psychology.

PSIC 6591 Practice in School Psychology I

Three credits. Eleven hours of supervised practice per week.

Prerequisite: PSIC 6555 Supervised practice in providing services in the school setting that includes experiences such as: direct classroom observation, health promotion and prevention, community relations, interventions with academic and discipline problems.

PSIC 6592 School Psychology Practice II

Three credits. Three hours of direct supervision and ten hours of practice per week in the school setting.

Prerequisites: PSIC 6401, 6403, 6555, and 6591 Continuation of Supervised Practice in Providing Psychological Services in a School Setting. The student will gain experience in intervention strategies such as crisis and conflict intervention, management of specific behaviors in groups, interdisciplinary teamwork, psychoeducational and program evaluations. The course is complementary to PSIC 6591.

PSIC 7005 Seminar in School Psychology: The Functions of the School Psychologist

Three credits. Fifteen hours of lecture per week.

Prerequisite: Director's Permission Study of the Clinical Process with Learning and Behavioral Disabilities. Emphasis on the integration of data from case histories, interviews, and psychometric tests.

PSIC 8000 Philosophical Foundations of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Changes in the Paradigms of Science and Their Consequences in Psychology.

PSIC 8001 Dissertation Seminar

No credit. Three hours of discussion a week.

Prerequisite: Master's degree or PSIC 6007. Permission of the director and/or coordinator of the graduate program The dissertation is original research that demonstrates the student's capabilities as an independent researcher. During his/her dissertation seminar, the student will choose his/her research topic and problem, review the literature (relevant theoretical and empirical findings) and elaborate the research design or action plan. You will submit a formal proposal to the dissertation committee for approval.

PSIC 8002 Dissertation Paper

No credit. Three hours of discussion a week.

Prerequisite: PSIC 8001 This course is designed for the purpose of following up on the work done in the dissertation seminar. In this case, the research proposed in the seminar course will be completed, i.e., the information will be collected and interpreted with the advice of the dissertation committee. The student will enroll in the course each semester in which he/she is carrying out his/her dissertation work and will submit written reports of his/her progress periodically. You will complete your thesis work by submitting the final dissertation essay.

PSIC 8005 School Psychology Seminar: Professional Problems of School Psychology

Three credits. Three hours of lecture a week.

In-depth examination and analysis of unresolved problems in the area of psychoeducational diagnosis and intervention and behavior modification; Counseling, consulting, and counseling for parents.

PSIC 8007 School Psychology: Mental Health Consulting in Schools

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director, student consortium Consulting as a model of school psychological service. The student will become familiar with and train in various modalities and levels of consulting that will be used as a school psychologist. The research and evaluative aspects of the consultancy will be studied.

PSIC 8015 Advanced Social Psychology II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Examines historical forms of subjectivity in areas of everyday life such as child-rearing, morality, sexuality, and love relationships.

PSIC 8017 Seminar on Multiple Perspectives in Research II

Three credits. Three hours of lecture a week.

Prerequisite PSIC 6007 Examination of the different theoretical fields in psychology and their research. Analysis of the most commonly used assumptions, research strategies, methods and techniques.

PSIC 8018 Contemporary Social Research: Meeting with its Authors

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007, and PSIC 8017 Diverse approaches in social science research by meeting researchers and discussing their research with them.

PSIC 8019 The Social Scientist as a Judicial Expert

Three credits. Three hours of lecture a week.

Prerequisite: Master's degree in psychology or in one of the social sciences Theoretical and practical considerations in the preparation of the social scientist as a judicial expert.

PSIC 8027 Advanced Psychobiology: Fundamentals, Uses, and Controversies

Three credits.

In the period of discussion, the influences of modern biology are considered, particularly the evolutionist, etiological and systemic currents in the psychological conceptualization of the human being. Essential concepts such as assessment, adaptation, species-typical behavior, biological niche, and systemic organization. The discussion period is complemented by a hands-on laboratory when considering the controversies and applications of a psychobiological approach.

PSIC8028 Psychopharmacology

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

Prerequisites: PSIC6317 or PSIC8027.

Aspects of psychopharmacology and neurophysiology will be discussed in the course. It will include lectures on Anatomy and Physiology of the Nervous System, Synaptic Neurochemistry, Pharmacokinetics and Pharmacodynamics and on the neuropharmacological impact of different drugs on states of consciousness and behavior. The neurobiological basis of mental disorders, the mechanisms of action of different medications and the strategies used in experimental studies and clinical psychopharmacology will be studied. Anxiolytics and antidepressants, antipsychotic drugs, sedative hypnotics, and narcotics will be discussed. The content will be presented from both a basic science perspective and from a clinical orientation combining lectures and lecture discussions. The course is designed especially for students of the graduate program of Clinical Psychology and for doctoral students with a specialization in Academic-Research Psychology.

PSIC 8105 Psychology and Social Movements

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 The theoretical-practical contributions of psychology to the social movements of the last decades in Puerto Rico are analyzed.

PSIC 8115 Social Psychology of Education

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 or EDUC 6270 Examination of the crises of education in contemporary capitalist society. Critical analysis of the most important theoretical fields for its explanation. The social construction of education and the new subjectivity.

PSIC 8125 The Sociocultural Study of the Mind

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

Analysis of the sociocultural approach as a conceptual framework in the study of the mind. Discussion of the historical background of the approach and its development to the present with emphasis on the research program it has generated.

PSIC 8200 Fundamentals of Social Psychology and Current Issues

Three credits. Three hours of lecture a week.

This course studies the theoretical and methodological foundations of social psychology. The course discusses classical and contemporary theories, major in social psychology research, as well as new trends, such as the affective aspects of social behavior. This course is divided into four general units: epistemological and historical background, theorizing the individual in the social context, affective aspects of social dynamics and power structures, and contemporary related fields. In each unit, theoretical and methodological approaches are examined to provide students with the opportunity to develop an understanding of the field as well as research methodology from a social psychological perspective and integrate the social and affective aspects of behavior. Ethical

issues related to theory, research, and psychosocial interventions are discussed. This course examines the social and affective processes that affect behavior. Face-to-face course.

PISC 8201 Human Development: The Life Cycle

Three credits. Three hours of lecture a week.

The course proposes an overview of theories and research related to the development of the human subject. The relationship between the physical, cognitive and socio-emotional development of the subject from childhood to old age will be covered. Emphasis will be placed on the theoretical and scientific foundations of developmental psychology. The student will not only have information concerning developmental processes, but also a critical understanding of the processes underlying human development. The course will emphasize the dynamic processes of development and the dialectic between psychological processes and development. Face-to-face course

PSIC 8202: Psychological Approach to the Study of Cognitive and Affective Processes

Three credits. Three hours of lecture a week.

This course studies the main theoretical models used to explain the human cognitive and affective aspects of behavior. The emergence of cognitive psychology is examined by considering socio-historical transformations. Information processing models, genetic epistemology, historical-cultural perspective, and affective processes are analyzed. Cognitive processes such as attention, sensation, perception, memory, language, and problem-solving are discussed. In particular, it analyzes how affective processes and cultural differences shape cognitive processes and human behavior. Face-to-face course.

PSIC 8203 Models and Techniques of Psychotherapy

Three credits. Three hours of lecture a week.

This course focuses on the exposition of the different theoretical models of psychotherapy, as well as their origins and evolutions. Once the basis of the theoretical models is established, current therapeutic approaches will be examined from a critical point of view, emphasizing the conceptual problems, methodology, and alternatives to deal with such problems. Evidence-based psychotherapeutic approaches used with different populations will also be discussed. Face-to-face course.

PSIC 8204 Personality and Human Diversity

Three credits. Three hours of lecture a week.

This course addresses the categories of personality, subjectivity and subjectivation from a critical and complex approach. It examines the paradigmatic assumptions underlying theories of personality and traditional approaches to the study of the human being. It proposes a conceptual approach that includes debates on the human from the paradigm of complexity, constructivism, psychoanalytic theory and updated foundational psychological premises. It explores the application of this conceptual approach to the human, pertinent in contemporary clinics, as well as particular considerations of the Puerto Rican population and the inescapable sensitivity to differences and cultural and individual diversity necessary in psychological formation. Face-to-face course.

PSIC 8205 Advanced Psychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401 and PSIC Training in the administration and interpretation of various techniques used in personality assessment such as: TAT, Bender Gestalt and Drawing the Person. It includes supervised practical work, laboratory work, and the submission of written reports. Face-to-face course.

PSIC 8206 Advanced Psychological Assessment Practice

A credit.

Prerequisites: PSIC 6401 and PSIC 6403 Corerequisite PSIC 8205 Intensive practice in the administration and evaluation of the following tests: Thematic Apperception Test (TAT), Apperception Test for Children (CAT), Bender Gestalt Visual-Motor Test, Human Figure Drawing among other tests. To the above are incorporated the tests contained in the Psic. 6401; Psychological Assessment I, worked on in the practice of this course, Psic. 6403. Personality inventories such as the *Personality Assessment Inventory (PAI)*, the *Minnesota Multiphasic Personality Inventory-2 (MMPI-2)* and Rorschach basics are also included. Emphasis is placed on the clinical approach of the responses of the subjects with whom we work, which are part of their discourse and life history. Face-to-face course.

PSIC 8215 Psychology and Law

Three credits.

Analysis of basic concepts common to psychology and law.

PSIC 8216 Employment and Discrimination.

Three credits. Three hours of lecture a week. Prerequisite: Director's Permission Critical Analysis of Discrimination in Employment and Its Consequences.

PSIC 8300 Advanced Clinical Psychology Practice

A credit. Three hours of supervised practice.

Prerequisites: PSIC 6434 This advanced clinical practice in psychotherapy (individual, group, couples and/or families, and/or psychological evaluations), allows students to increase their face-to-face clinical hours and refine their clinical skills. During this advanced internship, students will also be able to increase exposure to diverse populations and rotate into externship clinical internships. Face-to-face course.

PSIC 8301 Advanced Family and Couples Therapy

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6432 & PSIC 8203 Corequisites: PSIC 8302 This course provides the student with an overview of the basic concepts and fundamentals of family and couples therapy. They will also become familiar with the various systemic theoretical models. The different techniques used by the different theoretical models will be emphasized. In the same way, they will develop group research skills that respond to a family or couple problem. Face-to-face course.

PSIC 8302 Advanced Family and Couples Practice

A credit. Supervised practice.

Prerequisites: PSIC 6432 and PSIC 8203 Corequisites: PSIC 8301 This course is a clinical practice where the student has the opportunity to acquire the advanced clinical skills to work with couples and families from a systemic perspective. During this clinical practice, the student will have interventions with clinical cases using one or more systemic theoretical models. This practice should be taken simultaneously with the theoretical course of advanced therapy for families and couples. Face-to-face course.

PSIC 8303 Research Practice

A credit.

The goal of this course is to foster the research experience in students. These will join a faculty member's project to acquire and refine research skills. They will be working under the supervision of a mentor/researcher. Students are required to attend one hour per week of research under the mentorship of their supervisor. Each supervisor's research project will have a brief description of their research. This course can be taken more than once to continue with a research project. In addition, their respective research supervisors will add additional references to the course. Face-to-face course.

PSIC 8304 Clinical Supervision Seminar

A credit.

Prerequisite: PSIC 6433 This course provides the student with an overview of clinical supervision and the different approaches and models of supervision applied to clinical psychology. The student is exposed to the development of supervision as a fundamental part of the training of a psychologist. The student will be able to appreciate different conceptualizations of clinical supervision according to each theoretical model and its particular objectives, approaches, and strategies. In addition, you will learn the difference between supervision and consulting. In addition, the student will have the opportunity to create and develop instruments to measure variables that should be present in each psychotherapeutic model. There will be integration in theory and research in the search for research publications on psychotherapy and supervision. Face-to-face course.

PSIC 8335 Research Methods in Human Developmental Psychology

A credit. Three hours of lecture a week.

Prerequisite: PSIC 6006, 6007, 6301 and permission Discussion of the most frequently used methods in psychological research on human development. Examination of the central issues of time analysis, changes over life, the contributions of the evolutionary approach, and the relationship between research and theory development.

PSIC 8405 Linking Theory: Critical Analysis and Clinical Application

Three credits. Three hours of lecture a week.

It discusses the basic assumptions of theory based on etiological study. It is compared with other dynamic approaches and clinical applications are derived.

PSIC 8407 Rorschach Technique

Four credits. Three hours of lecture and three hours of supervised practice per week.

Prerequisites: PSIC 6020, 6401 and 6402 Introductory course in the Rorschach psychological assessment technique. It includes the theoretical basis of the latter, the principles of administration, qualification and interpretation. Provide hands-on experience.

PSIC 8409 Psychotherapeutic Research: Process and Outcome

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

Prerequisite: Teacher's permission Formal research on psychotherapy programs with children, adolescents, and adults in various modalities (such as individual, group, couples, and family). Review of research on psychotherapeutic processes and outcomes.

PSIC 8411 Psychoanalysis Seminar Part I: Adult

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Study of Freud's writings, fundamental for the knowledge of subjectivity.

PSIC 8412 Psychoanalytic Seminar Part II: Child

Three credits. Three hours of lecture a week.

Study of the basic texts of the most important psychoanalysts in the field of child psychoanalysis.

PSIC 8415 Analysis and Reflection on the Practice of Clinical Psychology in Puerto Rico

Three credits. Three hours of lecture per week and nine hours of lab. Prerequisite: PSIC 6431, 6432, 6433, and 6434 Advanced Supervised Practice in Psychotherapy (Individual, Group, Couples and/or Family, and/or Psychological Evaluations). It makes it possible to generate new approaches and models of intervention, as well as to refine clinical skills and delve into particular populations or problems. This practice course consists of three credits per semester and can be repeated up to three times.

PSIC 8416 Psychological Evaluation of Children with Disabilities

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3025, 6301, 6401, 6402, 6403 and 6404 Theoretical and Methodological Controversies on the Psychological Evaluation of Children with Disabilities. Examination of the effects of impairment on children's development, their families and the problem of social and educational placement.

PSIC 8420 Seminar: Family Study

Three credits.

Prerequisite: PSIC 6421 Critical Study of the Theoretical and Research Literature on Families and Its Applicability in Puerto Rico. Research techniques will be developed for the study of families in Puerto Rico.

PSIC 8425 Psychotherapy Supervision Seminar

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: 60 graduate credits in clinical psychology or equivalent.

Critical consideration of the theoretical and practical aspects of psychotherapy supervision. Hands-on experience in observation, research, and supervision.

PSIC 8495 Internship in Clinical Psychology

No credits.

Prerequisite: Permission from the chair of the department of psychology or coordinator of the graduate program and PSIC 6431, 6432, 6433, 6434 Supervised Practice in Clinical Psychology up to the accumulation of 2,000 hours of professional experience as the last requirement for the doctoral degree.

PSIC 8505 Psychology and Reason

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007 Analysis of the separation of body and the "software/hardware" fission of work and its consequences on the constitution and development of psychology.

**PSIC 8506 Advanced Seminar on Community Psychology:
Contemporary Debates**

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105; PSIC 6106 Contemporary Debates on Community Psychology and Their Concretion in Research and Intervention. The discussion is framed in community psychology in Puerto Rico.

PSIC 8507 Consulting in the School Context

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6555 Study of the different roles and functions of the consultant in the school context. In-depth discussion of the basic principles and intervention models in professional psychological consulting. Emphasis on the stages of the consulting relationship and the processes that take place during the intervention.

PSIC 8508 Consulting Practice in the School Context

Zero credits. Ten hours of supervised practice and three hours of supervision.

Prerequisite: PSIC 6555.

Supervised practice in consulting in the school context in which theoretical knowledge is applied and skills of the discipline are developed. The course is complementary to consulting in the school context (PSIC 8507).

PSIC 8515 Biological Approaches to the Study of Psychopathology

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6408, PSIC 6317 or PSIC 8027 Study of biological models that have been proposed to explain various conditions of human psychopathology. Emphasis on critical analysis of research that supports or contradicts these models and the pharmacological interventions that derive from them. Analysis of the most important controversies in the application of these y its impact on the practice of psychology.

PSIC 8516 Psychoeducational Evaluation

Three credits. Three hours of lecture per week and two hours of supervised practice a week.

Prerequisites: PSIC 6401, 6403, and 6555 Analysis of psychological and educational concepts and strategies used in psychoeducational assessment. It includes the conceptualization of what assessment is in the school context, assessments of academic achievement, basic writing skills, reading mathematics, as well as social performance and dynamic cognitive aspects and pedagogical strategies. Integrate, as fundamental aspects of psychoeducational evaluation, modalities of corrective and remedial intervention strategies. Provide for the application of concepts and the development of particular skills that allow psychoeducational evaluations to be carried out.

PSIC 8525 The Game: Reflection, Analysis and Intervention

Three credits. Two hours of lecture per week and two hours of supervised practice per week.

Prerequisite: PSIC 8405, and PSIC 8412 Study of play in children from the psycho-analytic and interactional perspective and its implications in clinical practice with children. Critical examination of other theoretical perspectives and their clinical application. Supervised practice in clinical intervention. **Mailing Address:** 9 Ave Universidad, Suite 901 San Juan



PR 00925-2529 **Telephone extensions:** (787) 764-0000, extensions 87543, 87546, 87548

Portal: <https://sociales.uprrp.edu/psicologia/>

DEGREE:

Master of Arts with a specialty in Research Psychology in Neurocognition and Human Development

TEACHERS:

Cruz Bermúdez, Nelson D., PhD , Brandeis University, 2007, Assistant Professor. Research topics: Neuroscience of drug addiction and mental disorders; neuroeducation.

Dávila Marrero, Elixmahir, PhD , University of Puerto Rico, 2005, Assistant Professor. Research topics: Neuropsychological assessment and neurocognitive rehabilitation of neurodegenerative diseases and TBI. Use of video games as a cognitive rehabilitation tool with children and adolescents. Alternative education as a current educational strategy. Standardization of psychological testing for the Puerto Rican population.

Espada Brignoni, Teófilo, PhD , University of Puerto Rico, 2015. Assistant Professor. Research topics: Culture and subjectivity, Social movements, Empathy, Attributions and discourses in everyday life, Processes of subjectivation, Art and community intervention, Psychology and literature, Music and society.

Galarza García, Laura, PhD , Rice University, 2000, Professor. Research Topics: Industrial-Organizational Psychology; Comparative and International I/O Psychology; Aerospace Psychology; strategy and organizational change; Selection, development and management of individual and organizational performance; Work engagement.

García Ramos, Tania, PhD , Universidad Complutense de Madrid, 1995, Professor. Research Topics: Industrial Organizational Psychology; Psychology of work and organizations; Work and subjectivity; Theorizing around work; research methodology; Epistemology of complexity.

Gómez Escudero, María de los Ángeles, PhD, Université de Paris V, 1991, Professor. Research topics: Parenting and filiation; the body in speeches; Problems of Psychopathology, Psychoanalytic Clinic.

Jiménez Torres, Aida, PhD, University of Puerto Rico, 1993. Associate Professor. Research Topics: Family and Couples: Attachment: Multiculturalism and Psychotherapy.

Martínez Mejías, Sylvia, PhD , University of Puerto Rico, 1998, Professor. Research topics: Studies in affective bonding and attachment theory; Court expertise in custody and special education cases; Evaluation in early intervention and developmental deficiencies.

Méndez Castillo, Milagros, PhD , Fordham University, 1993, Associate Professor. Research topics: Sexuality in adolescents, Violence in schools, Health psychology, Teaching psychology.

Miranda Gierbolini, Dolores, PhD, Temple University, 1987, Professor. Research topics: Development of sustainable communities, Social movements, Social policy, Political subjectivations, critical citizenship and social change, The human in the ecological complex, The hidden faces of violence.

Morales Arandes, Edgardo, Ed.D, Boston University, 1986, Associate Professor. Research topics: Language and metaphor as models for the construction of socio-organizational and personal realities; participation and democracy at work; relational constructionism; constructionist approaches to psychotherapy; dialogic and collaborative practices; evidence-based psychotherapy; qualitative research.

Nina Estrella, Ruth V., PhD, National Autonomous University of Mexico, 1991, Professor. Research topics: Interpersonal communication, family, couple relationships and sexuality and adolescence.

Ruiz Alfaro, Frances, PhD, University of Puerto Rico, 2014. Assistant Professor. Research topics: Affective bonding; Discourse and Literature, Subjectivity; Autism Spectrum Disorder Evaluation.

Santiago Estrada, Sara, PhD , University of Puerto Rico, 2013. Associate Professor. Research Topics: Transformations at Work; Study of subjectivities in work scenarios, educational organizational scenarios; Change in organizations.

Tirado Santiago, Giovanni, PhD, McGill University, 2006, Associate Professor. Research topics: Neural plasticity; biopsychology of learning and memory; Neuroimaging of cognitive functions in major depression.

Vale Nieves, Otomie, PhD, University of Puerto Rico, 1993, Professor. Research Topics: Technology and Learning; development, subjectivity and historical context; critical psychology; language and subjectivity; construction of the youth, technology and gender.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Possesses, or is in the process of completing no later than the summer of the year in which you are interested in commencing graduate studies, a bachelor's or bachelor's degree from an institution o accredited university.
2. Have a general academic index of not less than 3.00 points (or its equivalent in the grading system of the university of origin) or a general academic index (baccalaureate and master's degree) of no less than 3.00 points if you have a master's degree.
3. Academic index of no less than 3.00 points in: (a) General or Introductory Psychology; (b) Social Psychology or a course related to the area of specialty to which you are applying; (c) Elements of Statistical Reasoning; (d) Psychological Research Methodology.
4. Be fluent in Spanish and English.
5. Attend an interview.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself* platform.
2. Two official transcripts.
3. Provide a *resume*.
4. Write an essay.

Other Requirements (for those candidates who qualify)

1. Group interview for which you will be summoned.

PROGRAM OF STUDY:

Code	Requirements	Credits
Core Courses		12
PSIC 6006	Statistics Applied to Psychology	3
PSIC 6007	Seminar: Psychological Research Methods	3
PSIC 6305	Statistics and Advanced Methodological Design	3
PSIC 8017	Seminar on Multiple Perspectives in Research II	3
Courses in the area of specialty		15
PSIC 6301	Advanced Developmental Psychology I	3
PSIC 6317	Advanced Physiological Psychology	3
PSIC 8202	Psychological Approaches to the Study of Cognitive and Affective Processes	3
PSIC 6995	Research Practicum	3
PSIC 6995	Research Practicum	3
PSIC ____	APA Writing Workshop	0
PSIC ____	Proposal Writing Workshop	0
Free Electives		3
Comprehensive Examination		0
Total Credits		30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PSIC 6006 Statistics Applied to Psychology

Three credits.

Statistical methods and their applications in psychological research. Data collection, organization, and analysis; frequency distribution; measures of central tendency, variation, asymmetry, and kurtosis; theoretical, binomial, normal, and Poisson distributions; sampling, sampling distribution, hypothesis testing for large and small samples; point-based and interval-based estimates.

PSIC 6007 Seminar: Methods of Psychological Research

Three credits. Three hours of lecture a week.

Discussion of the basic methods of research in the field of psychology, with examples of the most frequently used techniques. Discussion of topics such as controls in psychological research, the concept of explanation and prediction, the practicalities of different research problems, the selection of areas, methods, and topics in psychological research.

PSIC 6305 Advanced Statistics and Methodological Designs

Three credits. Three hours of lecture a week. Statistical analyses and designs, and the theory thereof.

PSIC 8017 Seminar on Multiple Perspectives in Research II

Three credits. Three hours of lecture a week.

Prerequisite PSIC 6007 Examination of the different theoretical fields in psychology and their research. Analysis of the most commonly used assumptions, research strategies, methods and techniques

PSIC 6301 Advanced Developmental Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree in Psychology or counselor's permission Study of the basic principles of human development with emphasis on childhood and adolescence. Critical consideration of recent scientific findings. Special attention is given to the problems and particularities of children and adolescents in Puerto Rico.

PSIC 6317 Advanced Physiological Psychology

Three credits. Three hours of lecture a week.

The course emphasizes a study of the relationship between the physiological system of an organism y conduct. Special attention is paid to the functioning of the central nervous system y its influence on behavior.

PSIC 8202 Psychological Approaches to the Study of Cognitive and Affective Processes

Three credits. Three hours of lecture a week.

This course studies the main theoretical models used to explain the human cognitive and affective aspects of behavior. The emergence of cognitive psychology is examined by considering socio-historical transformations. Information processing models, genetic epistemology, historical-cultural perspective, and affective processes are analyzed. Cognitive processes such as attention, sensation, perception, memory, language, and problem-solving are discussed. In particular, it analyzes how affective processes and cultural differences shape cognitive processes and human behavior. Face-to-face course.

PSIC 6995 Research Practicum

One to four credits per semester.

Prerequisite: Be enrolled in the graduate program and permission from the professor. The course is aimed at developing the necessary skills for psychological research through their active participation in the development of research projects, under the supervision of a professor. The course can be repeated with credits, without limit with the approval of the research professor.

OTHER COURSE DESCRIPTIONS:

PSIC 6005 Theories of Personality

Three credits.

Study of theories on the structure, dynamics and development of personality, emphasizing contemporary approaches. Critical examination of problems, theories, and research that help clarify the role of motivation in personality.

PSIC 6008 Thesis Work

No credits. Meeting by agreement.

Prerequisite: PSIC 6010 The course is designed for those students who need guidance and advice from their thesis advisors in relation to the difficulties encountered in the different phases of the thesis research work and in the preparation and writing of the thesis. The student will enroll in the course each semester in which he/she is carrying out his/her thesis work.

PSIC 6009 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The purpose of this course is to give the student a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, physiological sensation and perception, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area.

PSIC 6010 Thesis Seminar

Three credits.

Prerequisite: PSIC 6007 Seeks to hone the creative and critical capacities of participants through the cultivation of dialogue and scientific exposition, both oral and written. It requires the preparation of candidates for the critical examination before the faculty panel and fellow students.

PSIC 6015 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

The purpose of this course is to give a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, sensation and perception, physiological, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area.

PSIC 6020 Proseminar in General and Applied Psychology: Principles of Psychological Measurement

A credit. Sixteen lecture hours per semester.

This module aims to expose the student to the basic principles of psychological assessment in its broadest sense. The emphasis will be on the discussion of the concepts of validity, reliability, normalization and standardization, among others.

PSIC 6025 Psychosocial Approach to the Study of Organizational Behavior

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program The following topics are covered relatively quickly: organizational design, motivation, satisfaction, communication, conflict, and others. It delves into the discussion of some methods that have been used to try to facilitate change in organizations. It critically evaluates current administrative practice and tries to identify and question the ideology or set of values that informs it. It illustrates the negative consequences of such an ideology and raises the possibility that the tendency of human beings to unilaterally control their situation leads precisely to organizational ineffectiveness. We are invited to invent and explore models of control that lead to effectiveness.

PSIC 6026 Psychological Approach to Development and Change in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 Explores various models of producing information pertinent to organizational development and change. It is hoped that these models will be compared and evaluated so that the student will become familiar with them and feel able to begin to explore the application of some of them.

PSIC 6030 Proseminar in General and Applied Psychology: Ethical Issues in Psychology

A credit. Sixteen lecture hours per semester.

The course will familiarize the student with the problems and considerations to be taken in the construction, development and application of an ethical system for the profession, the basic premises, notions and ethical implications of using various models of man will be analyzed as illustrated with the various psychological paradigms. The discussion of cases, situations and paradoxes in the practice of professional psychology will be used.

PSIC 6040 Proseminar in General and Applied Psychology: Principles of Supervision

A credit. Sixteen lecture hours per semester.

Some of the most relevant theories on management and supervision and important aspects of supervision such as objectives, work planning, control, coordination and evaluation will be discussed. The unit will be conducted mainly through lectures, case discussions, and simulation of roles and real situations. Face-to-face, hybrid and online course.

PSIC 6050 Proseminar in General and Applied Psychology: Principles of Consulting

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with consulting and counseling service models in order to know and apply the basic principles of these models to situations that require the advice of a psychologist.

PSIC 6060 Proseminar in General and Applied Psychology: Evaluation of Programs and Services

A credit. Sixteen lecture hours per semester.

This module invites you to review the existing literature on evaluation techniques and strategies in different contexts: government agencies, educational programs, community action programs, and services of a preventive or corrective nature in general.

PSIC 6070 Proseminar in General and Applied Psychology: Puerto Rican Society and Culture

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with the effect of variables resulting from Puerto Rican society and culture on individual and group behavior. Emphasis is placed on the analysis of situations that require the intervention of the clinical psychologist in the light of these variables.

PSIC 6080 Proseminar in General and Applied Psychology: Evaluation of Employees

A credit. One hour of lecture per week.

Study of employee evaluation as a system: its methods and techniques. Face-to-face, hybrid and online course.

PSIC 6090 Proseminar in General and Applied Psychology: Identification of Needs and Resources

A credit. One hour of lecture per week and one hour of laboratory time per week. The course attempts to familiarize the student with various methods or models of identifying communal needs and resources. It also attempts to provide critical elements to evaluate different models and put them in contact with the different options used by public agencies.

PSIC 6105 Advanced Social Psychology

Three credits. Three hours of lecture a week.

The course is organized around the problem of the social construction of reality. An attempt is made to develop both a theoretical and methodological framework for the study of it. For this purpose, several theories are studied, such as ethnomethodology, symbolic interactionism, role theory; and it will delve into areas such as deviance and social control, attitudes, attribution, social comparison, social movements, and ideology. An effort will be made to use Puerto Rican literature to illustrate and understand the social construction of reality.

PSIC 6106 Community Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Department It is intended to prepare the future psychologist in the analysis and solution of psychosocial problems affecting the community.

PSIC 6107 Intercultural Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Psychology This seminar aims to highlight the extent to which social psychology can be subject to cultural variations. Social psychology research in different cultures is studied, analyzed comparatively, and the implications of the findings for existing theories are considered. Emphasis is placed on research on Puerto Rican culture, and an attempt is made to replicate at least one foreign study in our culture.

PSIC 6108 Psychology, Society and Health

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: PSIC 6106 Analysis of the socio-economic conditions, organizations, and social visions that affect the health and disease situation in Puerto Rico and other countries in the Americas. The role of the psychologist in relation to this problem.

PSIC 6109 The Group as a Means of Social Intervention

Three credits. Two hours of lecture and three hours of laboratory work per week.

Prerequisite: PSIC 6105, 6106 The application of group theories to social life to facilitate psychological, social, organizational, institutional, and community change will be studied.

PSIC 6110 Seminar on the Psychological Analysis of Social and Cultural Change in Puerto Rico

Three credits. Three hours of lecture a week.

The seminar will be oriented towards the purpose of gathering pertinent information regarding the educators of change in Puerto Rico, such as: the search for the historical background of Puerto Rican society in its basic outlines: population, emigration and immigration, urban planning, poverty, slums, social stratification, education, housing, employment and unemployment, industrialization and modernization. These issues or indicators of change, among others, will be analyzed on the basis of objective and verifiable information that emerges from the examination of the literature of studies carried out here and abroad and with a psychological emphasis. It will explore how changes in these areas affect interpersonal relationships, the development of human beings, the formation of beliefs and values, and coexistence in Puerto Rico.

PSIC 6115 Analysis of Conflict and Crisis Management Strategies

Three credits. Three hours of lecture per week Conceptual and formal analysis for the management of interpersonal, group and community conflicts.

PSIC 6116 Practice in Conflict and Crisis Management Strategies

No credit.

Prerequisite: Concurrent with PSIC 6115 Supervised Practice in Interventions Aimed at Interpersonal, Group, and Community Conflict Management.

PSIC 6120 Seminar on Community Psychology and Social Policy

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director and instructor The course attempts to examine the content of public policy in the areas of health, education, and social welfare as it applies to community psychology in Puerto Rico. A thorough understanding will allow for effective planning of psycho-social intervention strategies.

PSIC 6131 Community Practice I

Three credits.

The purpose of this practice is to expand the theoretical framework discussed in the Advanced Social Psychology I and Community Psychology courses. It also aims to promote the acquisition of intervention skills in communities, formal groups, organizations, institutions or geographic communities, data collection and other aspects associated with research.

PSIC 6132 Community Practice II

Three credits.

This practice aims to expand the intervention and research skills acquired in Community Practice I.

PSIC 6133 Community Practice III

Three credits.

Prerequisite: PSIC 6132 This internship aims to refine and expand the skills acquired in the Community Practice I and II courses and to offer students the opportunity to acquire new community work skills in a new work scenario.

PSIC 6195 Social Psychology Seminar

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Study of current issues and issues in social psychology and related areas.

PSIC 6201 *Practicum I*

Three credits. One hour of lecture and twenty hours of laboratory per week. Students will dedicate at least 120 hours to practical work in an organization where they apply the concepts and techniques of the social-industrial program. Students will meet one hour a week with the supervising teacher to discuss problems and consult on references to study. As part of the course, each student will prepare a paper that is publishable in a scientific journal.

PSIC 6202 *Practicum I I*

Three credits. Three hours of supervision and eight hours of practice per week.

Prerequisite: PSIC 6201 and 6205 Practice in governmental and private organizations with particular attention to the organizational problems of such institutions. The course includes 120 hours of practice, in addition to weekly meetings for supervision.

PSIC 6205 Industrial Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Topics pertinent to the world of work with high social content are covered. Included are the following topics: historical significance of work and needs that are met by work, technology and job satisfaction, formal and informal organization, job analysis, recruitment and selection, introduction to performance evolution and training, as well as termination of employment (layoff, retirement, and exit interviews).

PSIC 6206 Construction of Psychological Tests

Three credits. Two hours of lecture per week. Prerequisite: PSIC 6006

Theory of Constructing Aptitude Tests, Intelligence, Exploitation, personality and interests. Practice in the preliminary development of one of these types of tests.

PSIC 6209 Psychosocial Aspects of Labor Regulations

Three credits.

Prerequisite: Admission to the Critical Analysis of Labor Regulations program in areas such as health, safety, hours, wages, labor unions, and others.

PSIC 6215 Psychosocial Approach to Organizational Conflict

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of psychological and sociological theories of organizational conflict and strategies for their solutions.

PSIC 6216 Psychological Testing Construction Laboratory

A credit. One hour of lab time per week.

Prerequisite: Take simultaneously with PSIC 6206 Laboratory for Question Writing, Item Analysis, Determination of Reliability, Standards, Equivalences, and Validity in Psychological Tests.

PSIC 6218 Psychology and Occupational Health

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6205 or equivalent The Occupational Psychology and Health course explores the workplace with an emphasis on the health, safety, and well-being of the workforce. It emphasizes the interaction of the worker and his or her workplace and its

effects on the worker's life in and outside the company. The course explores topics such as: healthy organization, work-family balance and spillover effect, health and productivity, stress and health, violence at work, physiological aspects of illness, safety and accidents, as well as intervention alternatives in work scenarios. As part of the course activities, students will develop a group intervention in an organization identified by them as a contribution to the organization and the quality of life of its members.

PSIC 6225 Psychological Assessment Techniques in Personnel Selection

Three credits. Three hours of lecture a week.

Discussion of the main psychological assessment techniques used in personnel selection. Face-to-face, hybrid and online course.

PSIC 6227 Social Psychology of Work and Production in Contemporary Capitalist Society

Three credits. Three hours of lecture a week.

Analysis of the theories of alienation, communication and organization in relation to the changes in the economy and society, brought about by the contemporary crisis. The perspectives of social psychology in the technological age will be studied.

PSIC 6302 Advanced Developmental Psychology

Three credits.

Prerequisite: Baccalaureate and with permission of the teacher Based on the study of the principles that govern human development, from conception to the end of adolescence. Subsequent developmental stages will be considered, such as early adulthood, middle adulthood, and the arrival of old age. Parallel to the study of the evolution of the human being during these periods, the psychological circumstances that accompany the attainment of fullness and the descent of life are discussed.

PSIC 6306 History and Systems of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The course examines the history of psychology, from ideas in the countries of the ancient East to contemporary psychology. An attempt is made to identify the existing historical ties of the latter. Finally, the state of the discipline and its history in Latin America are examined.

PSIC 6311 Teaching Psychology

Three credits. Three hours of lecture a week.

This course focuses on the teaching and assessment of the general psychology course. Innovations in teaching and instructional methods are discussed. The central themes and debates of general psychology, course content, ethics in teaching, and assessment of achievement are discussed.

PSIC 6312 Practice in the Teaching of Introductory Psychology

Three credits. Eight hours of practice per week.

Prerequisite: PSIC 6311 Course designed to provide supervised experiences and skills in teaching psychology. The course includes supervised practice in the different teaching methods.

PSIC 6315 Practice in the Teaching of Advanced Courses in Psychology

Three credits. Twelve hours of supervised practice per week.

Prerequisites: PSIC 6312 and Teacher's Permit Organization and teaching of an advanced undergraduate psychology course under the supervision of a professor. It includes a discussion of the philosophical foundations of teaching and the most recent aspects of the topic to be taught.

PSIC 6318 Human Learning

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The course will broadly cover the verbal memory and verbal behavior of humans. It will include a brief study of the historical background and general methodology; The remainder of the course will consist of the study of various models of memory and/or language interpolation.

PSIC 6325 Psychological Approach to the Study of Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Basic theories about the relationship between mental events and human behavior and effectiveness. The importance of cognitive processes in psychological work in Puerto Rico is emphasized.

PSIC 6327 Use and Application of the Computer to Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission Introduction to Common Terminology, Principles, and Applications of Computers to Psychological Work

PSIC 6401 Psychological Evaluation I

Three credits. Two hours of lecture per week.

Prerequisite: PSIC 6020, 6405 and 6408.

Critical analysis of the theoretical and practical aspects of psychological assessment by means of the intelligence test. It includes the historical, conceptual and ideological aspects of this mode of evaluation; the Stanford-Binet and Wechsler tests (for children and adults); its uses, scope, limitations, administration, valuation and interpretation.

PSIC 6402 Psychological Evaluation II

Three to four credits. Two hours Prerequisite: PSIC 6401, 6403 Training in the administration and interpretation of various techniques used in personality assessment, such as TAT, Bender-Gestalt, and Draw a Person. It includes supervised practical work, laboratory work, and the submission of written reports.

PSIC 6403 Psychological Assessment Practice I

A credit. Three hours per week of supervision sessions and twelve hours of practice. Prerequisite: PSIC 6020, 6405, 6408 and be enrolled in PSIC 6501 Supervised experience in administering, assessing, and interpreting intelligence tests, as well as writing psychological reports.

PSIC 6404 Psychological Assessment Practice II

No credit. Four to eight hours of practice.

Prerequisite: PSIC 6401, 6403, and be enrolled in PSIC 6402.

Supervised practice in the administration and interpretation of tests such as TAT, CAT, Bender-Gestalt, Drawing a Person, among others.

PSIC 6405 Theories of Personality and Psychotherapy

Three credits.

Discussion of the basic concepts in personality theory and psychotherapy with particular emphasis on existential and phenomenological approaches. Emphasis is placed on the pertinence and applicability of the concepts and techniques discussed, taking into consideration our diverse social idiosyncrasies and the real situation in which the Puerto Rican psychotherapist renders his or her services.

PSIC 6406 Psychotherapy Practice

No credit. Eight hours of practice per week.

Prerequisite: Enrolled in PSIC 6405.

Supervised practice in individual or group therapy. Practice is an integral part of the PSIC 6405 course.

PSIC 6407 Emergency Clinic and Short-Term Psychotherapy

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission The course proposes the study of a clinical and ethical knowledge that allows, beyond the so-called intervention, a positioning that centrally welcomes the word of the subjects who come to the clinic at a time of intricate conscious and unconscious phenomena that overflow their capacity to manage and tolerance of anguish and encourage them to connect with their crisis and their symptoms as one in which they are able to communicate with their crisis. Not only do they have an impact on external events, but as a production of their own complexity, subjectivity and discourse.

PSIC 6408 Principles of Psychopathology

Three credits. Three hours of lecture a week.

Discussion of various models of psychopathology (biophysical, intrapsychic, phenomenological, behavioral, and sociocultural) with particular emphasis on antecedents, development, and patterns of symptoms. Psychotherapeutic aspects, when pertinent to diverse patterns of psychopathology and sociocultural idiosyncrasies, are also discussed.

PSIC 6409 Practice in Psychopathology

No credit. Four hours of practice.

Prerequisite: Enrolled in PSIC 6408.

Observation, interviews, preparation of histories, diagnosis and clinical discussion of behavioral disorders. Practice is an integral part of the PSIC 6408 course.

PSIC 6410 Advanced Seminar on Behavior Modification

Three credits. Three hours of lecture per week; Practice (optional) Prerequisite: PSIC 6417
Critical and intensive study of the theoretical framework of behavior modification principles and the therapeutic effectiveness of behavior modification techniques.

PSIC 6416 Group Therapy

Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: Be a student of the graduate program in psychology The course will emphasize the theoretical and practical aspects of group therapy and offer a human laboratory for client and therapist experiences in a group psychotherapy environment.

PSIC 6417 Principles of Behavior Modification

Three credits. Three hours of lecture and four hours of practicum Prerequisite: Be a student of the graduate program in psychology Study of the basic psychological principles that govern human behavior, particularly those derived from the psychology of learning. Great emphasis will be placed on the application of social learning principles to the modification of psychotic, neurotic, and maladjusted behavior in clinical and educational institutions. Special attention will also be given to the critical discussion of recent scientific findings in behavior modification with particular interest in the applicability of these findings to maladjustment problems in Puerto Rico.

PSIC 6418 Childhood Behavioral Disorders

Three credits. Two hours of lecture per week; "Practicum" by agreement Prerequisite: Permission from the Department Directorate Problems of etiology, classification, and management of children who manifest extreme isolation, boundless behavior, strange and chaotic tendencies, and behavior determined by organic disorders. Theoretical frameworks, assessment techniques, and diagnosis are considered. Practice opportunities will be provided. Lectures will be offered by guest consultants.

PSIC 6421 Family Therapy I

Three credits. Two lectures and three labs a week.

Prerequisite: PSIC 6405, 6408 Study of some systems of family therapy, their theoretical models, techniques used, and case analyses. Students are offered the opportunity to live simulated family therapy experiences (laboratory) and to conceptualize about their own experiences within the different family systems that they share personally and professionally.

PSIC 6423 Family Therapy Practice I

Three credits. Three to four hours of practice.

Prerequisite: PSIC 6405, 6408, and 6421 Observation Experiences of Family Therapy Sessions; Opportunity to work with families as a cotherapist offering family therapy.

Participation in Practice Center meetings, case discussions, and supervisory meetings.

PSIC 6431 Clinical Psychology Practice I

No credit. Twelve hours of supervised practice per week.

Supervised practice in clinical observation, interviews, preparation of reports and histories, and participation in case conferences. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6432 Clinical Psychology Practice II

Two credits.

Prerequisite: PSIC 6431 Supervised practice in intellectual and personality functioning assessments, diagnostic interviews, case conference participation, counseling and individual psychotherapy with special focus on short-term problem-solving and crisis intervention. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor

PSIC 6433 Clinical Psychology Practice III

Two credits.

Prerequisite: PSIC 6432 Supervised Practice in Group Individual Psychological Functioning Assessments and Individual Psychotherapy. Supervised experiences of individual psychotherapy, psychodiagnosis, and group therapy will be emphasized in this practice. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6434 Clinical Psychology Practice IV

Two credits.

Prerequisite: PSIC 6433 Practice requires 12 hours of work per week in addition to meetings by appointment. It requires twelve hours of work a week, in addition to meetings with the clinical supervisor.

PSIC 6436 Intramural Practice in Clinical Psychology

Three credits.

Prerequisite: Principal's permission.

Supervised practice in psychotherapy (individual, group, couples and/or families) and psychological evaluation. This internship is carried out in the facilities of the University Center for Services and Psychological Studies (CUSEP) during the summer sessions.

PSIC 6437 Introduction to Clinical Practice

Three credits. One hour of lecture, one hour of discussion, and five hours of supervised practice per week.

The clinic is structured around concepts and foundations that provide a basis and contextualize the experiential (practical) experience. In this course, the basic concepts will be presented in a theoretical-practical-therapeutic integration. This will be carried out specifically through the discussion of different aspects: theoretical frameworks, clinical observation, interview styles and processes, clinical conceptualization, therapeutic processes, and clinical contexts.

PSIC 6505 Dream Module

A credit. Three hours of lecture a week.

Prerequisite: Director's Permission The meaning of dreams from the physiological and psychological point of view, Jung's theory of dreams and that of Dr. Efrén Ramírez. Method of dream interpretation designed by Dr. Ramírez, and its usefulness in terms of personal development, as a method of psychotherapy and as a method of group therapy.

PSIC 6506 Colloquium on Topics in Psychology

No credit. One hour of meeting per week.

Lectures, discussion and exchange of ideas between professors of the Department, students and guest lecturers. The student will enroll each semester.

PSIC 6507 The Psychology of Women

Three credits. Three hours of lecture a week.

This course is organized around the question of whether there is such a thing as a female psychology and what its biological and social determinants are. The acquisition of sex roles and their historical determination and cross-cultural relativity are studied. The literature is reviewed in relation to the biological, sexual, cognitive and affective functioning of women. In addition, it studies the development of feminist movements, the socio-political situation of women in industrial society, and the impact of these changes on relations between the sexes, the family, and Puerto Rican society.

PSIC 6510 Seminar on the Family in Puerto Rico

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

Prerequisite: Permission from the Director Analysis and Research of the History and Psychosocial Aspects of the Family in Puerto Rico. The main purpose of the seminar is to promote psychosocial research on the family and its problems.

PSIC 6515 Intelligence, Creativity, and Cognitive Complexity

Three credits. Three hours of lecture a week.

The concepts of intelligence, creativity, and cognitive complexity will be contrasted and the relevance of these concepts for today's Puerto Rican society will be determined.

PSIC 6516 Supervised Reading Course

Three credits.

Prerequisite: Teacher's permission The readings revolve around a topic chosen by the students and the teacher. The student covers the concepts with the teacher's approval and prepares a monograph on the concept of his/her preference.

PSIC 6517 Advanced Psychopharmacology and Neurophysiology of Drug Use and Abuse

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Knowledge of the psychophysiological system and its alteration through the use of chemical substances is deepened. Students will become familiar with the chemical and pharmacological aspects of the substances that are abused, as well as those used in the different treatment modalities (methadone, naltrexone, etc.). Particular attention will be given to the study of human behavior and its interaction with the action of substances on the psychophysiological system.

PSIC 6518 Psychology of the Young

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

PSIC 6301 Study of theories and research that explain typical youth processes, taking into account the cultural variables that contribute to the formulation of such theories and the design of such research. Discussion of the physical, cognitive, social and affective aspects of development, as well as the evolution of the identity and sexuality of the young person. Analysis of family processes, school experience, relationships with peers and the influence they have on development.

PSIC 6525 Psychological Analysis of Power

Three credits. Three hours of lecture a week.

Analysis of the concept of power at the individual level (power traits, power motivation, foci of control), at the group level (leadership, relations between the sexes). Some emphasis will be given to the communal and institutional levels.

PSIC 6526 Spirituality in Psychology

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

Prerequisites: PSCI 3005 or 3003 This graduate-level course examines contemporary conceptualizations and debates surrounding the notion of spirituality in the work of psychology, particularly its integration into therapeutic practice and in the preparation of the

helping professional. It reviews the ethical premises for psychology as it integrates spirituality into its research and practice.

PSIC 6527 Fundamentals of Human Sexuality

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director This introductory course aims to offer insight into human sexuality. It includes processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective and in its social dimension. The student will examine some sexual issues in Puerto Rican society.

PSIC 6528 Violence and Complexity

Three credits. Three hours of seminar per week.

The purpose of this course is to contribute to the production of a conceptual framework in which to situate violence as a complex, socially constructed phenomenon. The relationship between psychic life and social life will be studied from the centrality that the signifier of violence has acquired in our contemporaneity. This includes a close examination of the relationships between the history of the constitution and identifications of the subject (subjectivation) and the world we share with others (intersubjectivity) and its relation to violence. The contributions of the knowledge produced by the psychoanalytic discourse for the analysis of violence will be examined and dialogic relations between the psychoanalytic discourse and other contemporary fields of theorization such as poststructuralism, deconstructivism, social constructivism and Lacanian psychoanalysis will be promoted. The contributions of traditional psychology to the subject of violence are critically examined.

PSIC 6529 Review and Critical Analysis of the Psychological Literature in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Have passed a minimum of 9 graduate credits.

Review of research and publications that have been done in Puerto Rico, their theoretical frameworks, methodology and implications to understand the psychological reality of Puerto Ricans. A framework for analysis and critique will be provided.

PSIC 6535 Theoretical Controversies on Human Development: Early Childhood

Three credits.

Different aspects of human development from birth to seven years of age will be examined. The approach is epistemological, emphasizing the basic assumptions of the discipline, the fundamental controversies, and the ideological and philosophical aspects of the theories examined.

PSIC 6537 Psychopathology of Affective Development in Childhood: Psychoanalytic Perspective

Three credits.

Prerequisite: Permission of the director To provide a clinical view of the child's affective development from a psychoanalytic perspective, allowing knowledge of child psychopathology.

PSIC 6545 Program Evaluation and Consulting

Three credits. Three hours of lecture a week.

Introduction to the basic concepts and methods of consulting and program evaluation and the ethical and evaluative controversies surrounding them. Emphasis is placed on developing skills in these areas and applying them in public service programs and private agencies for non-pecuniary purposes.

PSIC 6546 Analysis of Interventions in Organizations: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 or its equivalent, permission of the director or PSIC 6026 Analysis of interventions carried out in public and private organizations in and outside Puerto Rico, in light of the conceptual models that guide them. Different intervention models, their purposes, conceptual frameworks and ethical principles are presented. Analysis of the current applications of these and other models, paying particular attention to the congruence between theory and practice.

PSIC 6555 School Psychology

Three credits. Three hours of discussion a week.

General orientation on school psychology, focusing the discussion on the public education system of Puerto Rico and on the ethical principles of the discipline. It focuses on the various functions that are carried out in professional practice in this area and on the historical and future development of school psychology.

PSIC 6591 Practice in School Psychology I

Three credits. Eleven hours of supervised practice per week.

Prerequisite: PSIC 6555 Supervised practice in providing services in the school setting that includes experiences such as: direct classroom observation, health promotion and prevention, community relations, interventions with academic and discipline problems.

PSIC 6592 School Psychology Practice II

Three credits. Three hours of direct supervision and ten hours of practice per week in the school setting.

Prerequisites: PSIC 6401, 6403, 6555, and 6591 Continuation of Supervised Practice in Providing Psychological Services in a School Setting. The student will gain experience in intervention strategies such as crisis and conflict intervention, management of specific behaviors in groups, interdisciplinary teamwork, psychoeducational and program evaluations. The course is complementary to PSIC 6591.

PSIC 7005 Seminar in School Psychology: The Functions of the School Psychologist

Three credits. Fifteen hours of lecture per week.

Prerequisite: Director's Permission Study of the Clinical Process with Learning and Behavioral Disabilities. Emphasis on the integration of data from case histories, interviews, and psychometric tests.

PSIC 8000 Philosophical Foundations of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Changes in the Paradigms of Science and Their Consequences in Psychology.

PSIC 8001 Dissertation Seminar

No credit. Three hours of discussion a week.

Prerequisite: Master's degree or PSIC 6007. Permission of the director and/or coordinator of the graduate program The dissertation is original research that demonstrates the student's capabilities as an independent researcher. During his/her dissertation seminar, the student will choose his/her research topic and problem, review the literature (relevant theoretical and empirical findings) and elaborate the research design or action plan. You will submit a formal proposal to the dissertation committee for approval.

PSIC 8002 Dissertation Paper

No credit. Three hours of discussion a week.

Prerequisite: PSIC 8001 This course is designed for the purpose of following up on the work done in the dissertation seminar. In this case, the research proposed in the seminar course will be completed, i.e., the information will be collected and interpreted with the advice of the dissertation committee. The student will enroll in the course each semester in which he/she is carrying out his/her dissertation work and will submit written reports of his/her progress periodically. You will complete your thesis work by submitting the final dissertation essay.

PSIC 8005 School Psychology Seminar: Professional Problems of School Psychology

Three credits. Three hours of lecture a week.

In-depth examination and analysis of unresolved problems in the area of psychoeducational diagnosis and intervention and behavior modification; Counseling, consulting, and counseling for parents.

PSIC 8007 School Psychology: Mental Health Consulting in Schools

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director, student consortium Consulting as a model of school psychological service. The student will become familiar with and train in various modalities and levels of consulting that will be used as a school psychologist. The research and evaluative aspects of the consultancy will be studied.

PSIC 8015 Advanced Social Psychology II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Examines historical forms of subjectivity in areas of everyday life such as child-rearing, morality, sexuality, and love relationships.

PSIC 8018 Contemporary Social Research: Meeting with its Authors

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007, and PSIC 8017 Diverse approaches in social science research by meeting researchers and discussing their research with them.

PSIC 8019 The Social Scientist as a Judicial Expert

Three credits. Three hours of lecture a week.

Prerequisite: Master's degree in psychology or in one of the social sciences Theoretical and practical considerations in the preparation of the social scientist as a judicial expert.

PSIC 8027 Advanced Psychobiology: Fundamentals, Uses, and Controversies

Three credits.

In the period of discussion, the influences of modern biology are considered, particularly the evolutionist, etiological and systemic currents in the psychological conceptualization of the human being. Essential concepts such as assessment, adaptation, species-typical behavior, biological niche, and systemic organization. The discussion period is complemented by a hands-on laboratory when considering the controversies and applications of a psychobiological approach.

PSIC 8028 Psychopharmacology

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

Prerequisites: PSIC6317 or PSIC8027.

Aspects of psychopharmacology and neurophysiology will be discussed in the course. It will include lectures on Anatomy and Physiology of the Nervous System, Synaptic Neurochemistry, Pharmacokinetics and Pharmacodynamics and on the neuropharmacological impact of different drugs on states of consciousness and behavior. The neurobiological basis of mental disorders, the mechanisms of action of different medications and the strategies used in experimental studies and clinical psychopharmacology will be studied. Anxiolytics and antidepressants, antipsychotic drugs, sedative hypnotics, and narcotics will be discussed. The content will be presented from both a basic science perspective and from a clinical orientation combining lectures and lecture discussions. The course is designed especially for students of the graduate program of Clinical Psychology and for doctoral students with a specialization in Academic-Research Psychology.

PSIC 8101 Human Neurodevelopment

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6317 The course expands fundamental concepts of human neurodevelopment by studying the neurobiological mechanisms underlying the formation of the nervous system. The major cellular processes in the development of the nervous system are discussed, including cell division, migration, and basic signaling pathways. It includes appraisals of the human brain in utero, during infancy and childhood, adolescence, adulthood and old age, and discussions in functional neuroanatomy. Discussions on neurobiological processes involved in cognitive functions and neurodevelopmental pathologies are examined. Structural,

functional, connectivity, and neurochemical changes in the brain are studied throughout life. Finally, the course provides a foundation for future work in basic sciences, clinical applications, and research on the development and function of the nervous system. This course will be offered in face-to-face, hybrid, distance learning and online modalities.

PSIC 8105 Psychology and Social Movements

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 The theoretical-practical contributions of psychology to the social movements of the last decades in Puerto Rico are analyzed.

PSIC 8115 Social Psychology of Education

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 or EDUC 6270 Examination of the crises of education in contemporary capitalist society. Critical analysis of the most important theoretical fields for its explanation. The social construction of education and the new subjectivity.

PSIC 8125 The Sociocultural Study of the Mind

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

Analysis of the sociocultural approach as a conceptual framework in the study of the mind. Discussion of the historical background of the approach and its development to the present with emphasis on the research program it has generated.

PSIC 8126 Human Learning

Three credits. Three hours of lecture a week.

Critical exposition of the main psychological theories of human learning. The historical and methodological background that led to the emergence of this field of study will be presented. Behaviorist theories, cognitive theories, and constructivist theories of human learning will be examined. Contemporary topics such as meta-cognition, transference, problem solving, and the role of motivation in the human learning process will be analyzed. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 8127 Contemporary Debates on Youth Psychology

Three credits. Three hours of lecture a week.

The course will critically analyze classical and contemporary theories of human development in adolescence. Particular emphasis will be placed on the socio-historical determinants that serve as the basis for such theories. It will examine the prominent place occupied by the family, the school, the mass media, particularly social networks, in the constitution of young people's subjectivities. In the context of Puerto Rico, some of the behaviors of young people that tend to be problematized will be examined, including: pregnancy, dropping out of school, and drug use. Various contributions of young Puerto Ricans to social life will be analyzed through reprobations and innovations in their daily practices, particularly in art and ecology. Finally, some psychotherapeutic alternatives will

be examined, if necessary. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 8128 Neuropsychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401, PSIC 6403, PSIC 6317, PSIC 8027, PSIC 6325 and PSIC 8125.

The theoretical bases that frame the neuropsychological assumptions that facilitate the neuropsychological evaluation process are established. Different pathologies of the central nervous system are studied in their relationship with behavior and their evaluation through neuropsychological methods. In addition, different neuropsychological assessment instruments are presented in the evaluation of children and adults. The use of these tools and the growing need for the development of culturally sensitive tools and norms are problematized. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 8129 Psychology of Adulthood and Senescence

Three credits. Three hours of lecture a week.

The course will critically analyze the classical and contemporary theories on human development in adulthood and senescence proposed by evolutionary psychology. Particular emphasis will be placed on the socio-historical determinants that serve as the basis for such theories. It will study the physical transformations, cognitive and psychic processes of adulthood and senescence, considering that the forms of representation and experimentation of these processes are saturated by the dominant social understandings, particularly the scientific-research, including the field of gender, production, sexual and technological, among others. Some of these forms of representation of adult life and senescence in Puerto Rico will be examined. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 8130 Practice in Neuropsychological Assessment

A credit.

Prerequisite: PSIC 8128 The main emphasis is on the process of selecting and administering neuropsychological tests, as well as analyzing the results from an integrative perspective between observable and measured residual functioning and the reason for referral. Emphasis is also placed on the writing of the neuropsychological evaluation report, where the results of the evaluation process are reflected along with the recommendations

and possible diagnoses. The student is exposed to different assessment instruments taking into consideration the flexible battery model and the most appropriate comparison standards for the patient being evaluated, among others. This course will be offered face-to-face e hybrid.

PSIC 8200 Fundamentals of Social Psychology and Current Issues

Three credits. Three hours of lecture a week.

This course studies the theoretical and methodological foundations of social psychology. The course discusses classical and contemporary theories, major in social psychology research, as well as new trends, such as the affective aspects of social behavior. This course is divided into four general units: epistemological and historical background,

theorizing the individual in the social context, affective aspects of social dynamics and power structures, and contemporary related fields. In each unit, theoretical and methodological approaches are examined to provide students with the opportunity to develop an understanding of the field as well as research methodology from a social psychological perspective and integrate the social and affective aspects of behavior. Ethical issues related to theory, research, and psychosocial interventions are discussed. This course examines the social and affective processes that affect behavior. Face-to-face course.

PISC 8201 Human Development: The Life Cycle

Three credits. Three hours of lecture a week.

The course proposes an overview of theories and research related to the development of the human subject. The relationship between the physical, cognitive and socio-emotional development of the subject from childhood to old age will be covered. Emphasis will be placed on the theoretical and scientific foundations of developmental psychology. The student will not only have information concerning developmental processes, but also a critical understanding of the processes underlying human development. The course will emphasize the dynamic processes of development and the dialectic between psychological processes and development. Face-to-face course.

PSIC 8203 Models and Techniques of Psychotherapy

Three credits. Three hours of lecture a week.

This course focuses on the exposition of the different theoretical models of psychotherapy, as well as their origins and evolutions. Once the basis of the theoretical models is established, current therapeutic approaches will be examined from a critical point of view, emphasizing the conceptual problems, methodology, and alternatives to deal with such problems. Evidence-based psychotherapeutic approaches used with different populations will also be discussed. Face-to-face course.

PSIC 8204 Personality and Human Diversity

Three credits. Three hours of lecture a week.

This course addresses the categories of personality, subjectivity and subjectivation from a critical and complex approach. It examines the paradigmatic assumptions underlying theories of personality and traditional approaches to the study of the human being. It proposes a conceptual approach that includes debates on the human from the paradigm of complexity, constructivism, psychoanalytic theory and updated foundational psychological premises. It explores the application of this conceptual approach to the human, pertinent in contemporary clinics, as well as particular considerations of the Puerto Rican population and the inescapable sensitivity to differences and cultural and individual diversity necessary in psychological formation. Face-to-face course.

PSIC 8205 Advanced Psychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401 and PSIC Training in the administration and interpretation of various techniques used in personality assessment such as: TAT, Bender Gestalt and Drawing the Person. It includes supervised practical work, laboratory work, and the submission of written reports. Face-to-face course.

PSIC 8206 Advanced Psychological Assessment Practice

A credit.

Prerequisites: PSIC 6401 and PSIC 6403 Corerequisite PSIC 8205 Intensive practice in the administration and evaluation of the following tests: Thematic Apperception Test (TAT), Apperception Test for Children (CAT), Bender Gestalt Visual-Motor Test, Human Figure Drawing among other tests. To the above are incorporated the tests contained in the Psic course. 6401; Psychological Assessment I, worked on in the practice of this course, Psic. 6403. Personality inventories such as the *Personality Assessment Inventory (PAI)*, the *Minnesota Multiphasic Personality Inventory-2 (MMPI-2)* and Rorschach basics are also included. Emphasis is placed on the clinical approach of the responses of the subjects with whom we work, which are part of their discourse and life history. Face-to-face course.

PSIC 8215 Psychology and Law

Three credits.

Analysis of basic concepts common to psychology and law.

PSIC 8216 Employment and Discrimination.

Three credits. Three hours of lecture a week. Prerequisite: Director's Permission Critical Analysis of Discrimination in Employment and Its Consequences.

PSIC 8300 Advanced Clinical Psychology Practice

A credit. Three hours of supervised practice.

Prerequisites: PSIC 6434 This advanced clinical practice in psychotherapy (individual, group, couples and/or families, and/or psychological evaluations), allows students to increase their face-to-face clinical hours and refine their clinical skills. During this advanced internship, students will also be able to increase exposure to diverse populations and rotate into externship clinical internships. Face-to-face course.

PSIC 8301 Advanced Family and Couples Therapy

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6432 & PSIC 8203 Corequisites: PSIC 8302 This course provides the student with an overview of the basic concepts and fundamentals of family and couples therapy. They will also become familiar with the various systemic theoretical models. The different techniques used by the different theoretical models will be emphasized. In the

same way, they will develop group research skills that respond to a family or couple problem. Face-to-face course.

PSIC 8302 Advanced Family and Couples Practice

A credit. Supervised practice.

Prerequisites: PSIC 6432 and PSIC 8203 Corequisites: PSIC 8301 This course is a clinical practice where the student has the opportunity to acquire the advanced clinical skills to work with couples and families from a systemic perspective. During this clinical practice, the student will have interventions with clinical cases using one or more systemic theoretical models. This practice should be taken simultaneously with the theoretical course of advanced therapy for families and couples. Face-to-face course.

PSIC 8303 Research Practice

A credit.

The goal of this course is to foster the research experience in students. These will join a faculty member's project to acquire and refine research skills. They will be working under the supervision of a mentor/researcher. Students are required to attend one hour per week of research under the mentorship of their supervisor. Each supervisor's research project will have a brief description of their research. This course can be taken more than once to continue with a research project. In addition, their respective research supervisors will add additional references to the course. Face-to-face course.

PSIC 8304 Clinical Supervision Seminar

A credit.

Prerequisite: PSIC 6433 This course provides the student with an overview of clinical supervision and the different approaches and models of supervision applied to clinical psychology. The student is exposed to the development of supervision as a fundamental part of the training of a psychologist. The student will be able to appreciate different conceptualizations of clinical supervision according to each theoretical model and its particular objectives, approaches, and strategies. In addition, you will learn the difference between supervision and consulting. In addition, the student will have the opportunity to create and develop instruments to measure variables that should be present in each psychotherapeutic model. There will be integration in theory and research in the search for research publications on psychotherapy and supervision. Face-to-face course.

PSIC 8335 Research Methods in Human Developmental Psychology

A credit. Three hours of lecture a week.

Prerequisite: PSIC 6006, 6007, 6301 and permission Discussion of the most frequently used methods in psychological research on human development. Examination of the central issues of time analysis, changes over life, the contributions of the evolutionary approach, and the relationship between research and theory development.

PSIC 8405 Linking Theory: Critical Analysis and Clinical Application

Three credits. Three hours of lecture a week.

It discusses the basic assumptions of theory based on etiological study. It is compared with other dynamic approaches and clinical applications are derived.

PSIC 8407 Rorschach Technique

Four credits. Three hours of lecture and three hours of supervised practice per week.

Prerequisites: PSIC 6020, 6401 and 6402 Introductory course in the Rorschach psychological assessment technique. It includes the theoretical basis of the latter, the principles of administration, qualification and interpretation. Provide hands-on experience.

PSIC 8409 Psychotherapeutic Research: Process and Outcome

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

Prerequisite: Teacher's permission Formal research on psychotherapy programs with children, adolescents, and adults in various modalities (such as individual, group, couples, and family). Review of research on psychotherapeutic processes and outcomes.

PSIC 8411 Psychoanalytic Seminar Part I: Adult

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Study of Freud's writings, fundamental for the knowledge of subjectivity.

PSIC 8412 Psychoanalytic Seminar Part II: Child

Three credits. Three hours of lecture a week.

Study of the basic texts of the most important psychoanalysts in the field of child psychoanalysis.

PSIC 8415 Analysis and Reflection on the Practice of Clinical Psychology in Puerto Rico

Three credits. Three hours of lecture per week and nine hours of lab. Prerequisite: PSIC 6431, 6432, 6433, and 6434 Advanced Supervised Practice in Psychotherapy (Individual, Group, Couples and/or Family, and/or Psychological Evaluations). It makes it possible to generate new approaches and models of intervention, as well as to refine clinical skills and delve into particular populations or problems. This practice course consists of three credits per semester and can be repeated up to three times.

PSIC 8416 Psychological Evaluation of Children with Disabilities

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3025, 6301, 6401, 6402, 6403 and 6404 Theoretical and Methodological Controversies on the Psychological Evaluation of Children with Disabilities. Examination of the effects of impairment on children's development, their families and the problem of social and educational placement.

PSIC 8420 Seminar: Family Study

Three credits.

Prerequisite: PSIC 6421 Critical Study of the Theoretical and Research Literature on Families and Its Applicability in Puerto Rico. Research techniques will be developed for the study of families in Puerto Rico.

PSIC 8425 Psychotherapy Supervision Seminar

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: 60 graduate credits in clinical psychology or equivalent.

Critical consideration of the theoretical and practical aspects of psychotherapy supervision. Hands-on experience in observation, research, and supervision.

PSIC 8495 Internship in Clinical Psychology

No credits.

Prerequisite: Permission from the chair of the department of psychology or coordinator of the graduate program and PSIC 6431, 6432, 6433, 6434 Supervised Practice in Clinical Psychology up to the accumulation of 2,000 hours of professional experience as the last requirement for the doctoral degree.

PSIC 8505 Psychology and Reason

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007 Analysis of the separation of body and the "software/hardware" fission of work and its consequences on the constitution and development of psychology.

PSIC 8506 Advanced Seminar on Contemporary Psychology Community: Discussions

Three credits. Three hours of lecture a week. Prerequisite: PSIC 6105;

PSIC 6106 Contemporary Debates in Community Psychology

y its concretion in research and intervention. The discussion is framed in community psychology in Puerto Rico.

PSIC 8507 Consulting in the School Context

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

PSIC 6555 Study of the different roles and functions of the consultant in the school context.

In-depth discussion of the basic principles and intervention models in professional psychological consulting. Emphasis on the stages of the consulting relationship and the processes that take place during the intervention.

PSIC 8508 Consulting Practice in the School Context

Zero credits. Ten hours of supervised practice and three hours of supervision.

Prerequisite: PSIC 6555.

Supervised practice in consulting in the school context in which theoretical knowledge is applied and skills of the discipline are developed. The course is complementary to consulting in the school context (PSIC 8507).

PSIC 8509 Cognitive Neuroscience

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6317 The cognitive neuroscience course proposes to explore cognitive processes from the study of the functioning of the brain. The course will cover fundamental concepts about the relationship of cognitive research and theories to current neuroscientific research. The most prominent methods for conducting research will be discussed, as well as techniques for study with human subjects. This will be followed by a discussion of the neural aspects of visual cognition, attention, memory, numerical processing, cognitive control, decision-making, and emotion regulation. It will conclude by discussing research in the field on consciousness, as well as emerging areas for the study of consciousness such as social and cross-cultural neuroscience.

PSIC 8515 Biological Approaches to the Study of Psychopathology

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6408, PSIC 6317 or PSIC 8027 Study of biological models that have been proposed to explain various conditions of human psychopathology. Emphasis on critical analysis of research that supports or contradicts these models and the pharmacological interventions that derive from them. Analysis of the most important controversies in the application of these
y its impact on the practice of psychology.

PSIC 8516 Psychoeducational Evaluation

Three credits. Three hours of lecture per week and two hours of supervised practice a week.

Prerequisites: PSIC 6401, 6403, and 6555 Analysis of psychological and educational concepts and strategies used in psychoeducational assessment. It includes the conceptualization of what assessment is in the school context, assessments of academic achievement, basic writing skills, reading mathematics, as well as social performance and dynamic cognitive aspects and pedagogical strategies. Integrate, as fundamental aspects of psychoeducational evaluation, modalities of corrective and remedial intervention strategies. Provide for the application of concepts and the development of particular skills that allow psychoeducational evaluations to be carried out.

PSIC 8525 The Game: Reflection, Analysis and Intervention

Three credits. Two hours of lecture per week and two hours of supervised practice per week.

Prerequisite: PSIC 8405, and PSIC 8412 Study of play in children from the psycho-analytic and interactional perspective and its implications in clinical practice with children. Critical examination of other theoretical perspectives and their clinical application. Supervised practice in clinical intervention. **Mailing Address:** 9 Ave Universidad, Suite 901 San Juan



PR 00925-2529 **Direct Phone:** (787) 763-5499

Phone extensions: (787) 764-0000, extensions 87543, 87546, 87548

Portal: <https://sociales.uprrp.edu/psicologia/>

DEGREE: Master of Arts with a specialty in Community Social Psychology

TEACHERS:

Cruz Bermúdez, Nelson D., PhD, Brandeis University, 2007, Assistant Professor.

Research topics: Neuroscience of drug addiction and mental disorders; neuroeducation.

Dávila Marrero, Elixmahir, PhD, University of Puerto Rico, 2005, Assistant Professor.

Research topics: Neuropsychological assessment and neurocognitive rehabilitation of neurodegenerative diseases and TBI. Use of video games as a cognitive rehabilitation tool with children and adolescents. Alternative education as a current educational strategy. Standardization of psychological testing for the Puerto Rican population.

Espada Brignoni, Teófilo, PhD, University of Puerto Rico, 2015. Research topics: Culture and subjectivity, Social movements, Empathy, Attributions and discourses in everyday life, Processes of subjectivation, Art and community intervention, Psychology and literature, Music and society.

Galarza García, Laura, PhD, Rice University, 2000, Professor. Research Topics: Industrial-Organizational Psychology; Comparative and International I/O Psychology; Aerospace Psychology; strategy and organizational change; Selection, development and management of individual and organizational performance; Work engagement.

García Ramos, Tania, PhD, Universidad Complutense de Madrid, 1995, Professor. Research Topics: Industrial Organizational Psychology; Psychology of work and organizations; Work and subjectivity; Theorizing around work; research methodology; Epistemology of complexity.

Gómez Escudero, María de los Ángeles, PhD, Université de Paris V, 1991, Professor. Research topics: Parenting and filiation; the body in speeches; Problems of Psychopathology, Psychoanalytic Clinic.

Jiménez Torres, Aida, PhD, University of Puerto Rico, 1993. Associate Professor.

Research Topics: Family and Couples: Attachment: Multiculturalism and Psychotherapy.

Martínez Mejías, Sylvia, PhD, University of Puerto Rico, 1998, Professor. Research topics: Studies in affective bonding and attachment theory; Court expertise in custody and special education cases; Evaluation in early intervention and developmental deficiencies.

Méndez Castillo, Milagros, PhD , Fordham University, 1993, Associate Professor. Research topics: Sexuality in adolescents, Violence in schools, Health psychology, Teaching psychology.

Miranda Gierbolini, Dolores, PhD, Temple University, 1987, Professor. Research topics: Development of sustainable communities, Social movements, Social policy, Political subjectivations, critical citizenship and social change, The human in the ecological complex, The hidden faces of violence.

Morales Arandes, Edgardo, Ed.D, Boston University, 1986, Associate Professor. Research topics: Language and metaphor as models for the construction of socio-organizational and personal realities; participation and democracy at work; relational constructionism; constructionist approaches to psychotherapy; dialogic and collaborative practices; evidence-based psychotherapy; qualitative research.

Nina Estrella, Ruth V., PhD, National Autonomous University of Mexico, 1991, Professor. Research topics: Interpersonal communication, family, couple relationships and sexuality and adolescence.

Ruiz Alfaro, Frances, PhD, University of Puerto Rico, 2014. Assistant Professor. Research topics: Affective bonding; Discourse and Literature, Subjectivity; Autism Spectrum Disorder Evaluation.

Santiago Estrada, Sara, PhD , University of Puerto Rico, 2013. Associate Professor. Research Topics: Transformations at Work; Study of subjectivities in work scenarios, educational organizational scenarios; Change in organizations.

Tirado Santiago, Giovanni, PhD, McGill University, 2006, Associate Professor. Research topics: Neural plasticity; biopsychology of learning and memory; Neuroimaging of cognitive functions in major depression.

Vale Nieves, Otomie, PhD, University of Puerto Rico, 1993, Professor. Research Topics: Technology and Learning; development, subjectivity and historical context; critical psychology; language and subjectivity; construction of the youth, technology and gender.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Possesses, or is in the process of completing no later than the summer of the year in which you intend to commence graduate studies, a bachelor's or bachelor's degree from an accredited institution or university.
2. Have a general academic index of not less than 3.00 points (or its equivalent in the grading system of the university of origin) or a general academic index (baccalaureate and master's degree) of no less than 3.00 points if you have a master's degree.
3. Academic index of no less than 3.00 points in: (a) General or Introductory Psychology; (b) Social Psychology or a course related to the area of specialty to which you are applying; (c) Elements of Statistical Reasoning; (d) Psychological Research Methodology.
4. Be fluent in Spanish and English.
5. Attend an interview.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself platform*.
2. Two official transcripts.
3. Provide a *resume*.
4. Write an essay.

Other Requirements (for those candidates who qualify)

1. Group interview for which you will be summoned.

GRADUATION REQUIREMENTS:

In addition to the general requirements for earning a master's degree from the Rio Piedras Campus, students must complete one semester of residency.

PROGRAM OF STUDY:

Code	Requirements	Credits
Core Courses		10
PSIC 6005	Theories of Personality	3
PSIC 6006	Statistics Applied to Psychology	3
PSIC 6007	Seminar: Psychological Research Methods	3
PSIC 6030	Proseminar in General and Applied Psychology: Ethical Issues in Psychology	1

Code	Requirements	Credits
Courses in the area of specialty		21
PSIC 6105 or PSIC 8200	Advanced Social Psychology Fundamentals of Social Psychology and Current Issues	3
PSIC 6106	Community Psychology	3
PSIC 6109	The Group as a Means of Social Intervention	3
PSIC 6110	Seminar on the Psychological Analysis of Social and Cultural Change in Puerto Rico	3
PSIC 6131	Community Practice I	3
PSIC 6132	Community Practice II	3
PSIC 6133	Community Practice III	3
Free Electives		9
Comprehensive Examination		0
Thesis		3
PSIC 6010 or PSIC 6995	Research Practicum Thesis Seminar	3
PSIC 6008	Thesis work	0
Total Credits		43

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PSIC 6005 Theories of Personality

Three credits.

Study of theories on the structure, dynamics and development of personality, emphasizing contemporary approaches. Critical examination of problems, theories, and research that help clarify the role of motivation in personality.

PSIC 6006 Statistics Applied to Psychology

Three credits.

Statistical methods and their applications in psychological research. Data collection, organization, and analysis; frequency distribution; measures of central tendency, variation, asymmetry, and kurtosis; theoretical, binomial, normal, and Poisson distributions; sampling, sampling distribution, hypothesis testing for large and small samples; point-based and interval-based estimates.

PSIC 6007 Seminar: Methods of Psychological Research

Three credits. Three hours of lecture a week.

Discussion of the basic methods of research in the field of psychology, with examples of the most frequently used techniques. Discussion of topics such as controls in psychological research, the concept of explanation and prediction, the practicalities of different research problems, the selection of areas, methods, and topics in psychological research.

PSIC 6030 Proseminar in General and Applied Psychology: Ethical Issues in Psychology

A credit. Sixteen lecture hours per semester.

The course will familiarize the student with the problems and considerations to be taken in the construction, development and application of an ethical system for the profession, the basic premises, notions and ethical implications of using various models of man will be analyzed as illustrated with the various psychological paradigms. The discussion of cases, situations and paradoxes in the practice of professional psychology will be used.

PSIC 6105 Advanced Social Psychology

Three credits. Three hours of lecture a week.

The course is organized around the problem of the social construction of reality. An attempt is made to develop both a theoretical and methodological framework for the study of it. For this purpose, several theories are studied, such as ethnomethodology, symbolic interactionism, role theory; and it will delve into areas such as deviance and social control, attitudes, attribution, social comparison, social movements, and ideology. An effort will be made to use Puerto Rican literature to illustrate and understand the social construction of reality.

PSIC 8200 Fundamentals of Social Psychology and Current Issues

Three credits. Three hours of lecture a week.

This course studies the theoretical and methodological foundations of social psychology. The course discusses classical and contemporary theories, major in social psychology research, as well as new trends, such as the affective aspects of social behavior. This course is divided into four general units: epistemological and historical background, theorizing the individual in the social context, affective aspects of social dynamics and power structures, and contemporary related fields. In each unit, theoretical and methodological approaches are examined to provide students with the opportunity to develop an understanding of the field as well as research methodology from a social psychological perspective and integrate the social and affective aspects of behavior. Ethical issues related to theory, research, and psychosocial interventions are discussed. This course examines the social and affective processes that affect behavior. Face-to-face course.

PSIC 6106 Community Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Department It is intended to prepare the future psychologist in the analysis and solution of psychosocial problems affecting the community.

PSIC 6109 The Group as a Means of Social Intervention

Three credits. Two hours of lecture and three hours of laboratory work per week.

Prerequisite: PSIC 6105, 6106 The application of group theories to social life to facilitate psychological, social, organizational, institutional, and community change will be studied.

PSIC 6110 Seminar on the Psychological Analysis of Social and Cultural Change in Puerto Rico

Three credits. Three hours of lecture a week.

The seminar will be oriented towards the purpose of gathering pertinent information regarding the educators of change in Puerto Rico, such as: the search for the historical background of Puerto Rican society in its basic outlines: population, emigration and immigration, urban planning, poverty, slums, social stratification, education, housing, employment and unemployment, industrialization and modernization. These issues or indicators of change, among others, will be analyzed on the basis of objective and verifiable information that emerges from the examination of the literature of studies carried out here and abroad and with a psychological emphasis. It will explore how changes in these areas affect interpersonal relationships, the development of human beings, the formation of beliefs and values, and coexistence in Puerto Rico.

PSIC 6131 Community Practice I

Three credits.

The purpose of this practice is to expand the theoretical framework discussed in the Advanced Social Psychology I and Community Psychology courses. It also aims to promote the acquisition of intervention skills in communities, formal groups, organizations, institutions or geographic communities, data collection and other aspects associated with research.

PSIC 6132 Community Practice II

Three credits.

This practice aims to expand the intervention and research skills acquired in Community Practice I.

PSIC 6133 Community Practice III

Three credits.

Prerequisite: PSIC 6132 This internship aims to refine and expand the skills acquired in the Community Practice I and II courses and to offer students the opportunity to acquire new community work skills in a new work scenario.

PSIC 6010 Thesis Seminar

Three credits.

Prerequisite: PSIC 6007 Seeks to hone the creative and critical capacities of participants through the cultivation of dialogue and scientific exposition, both oral and written. It requires the preparation of candidates for the critical examination before the faculty panel and fellow students.

PSIC 6995 Research Practicum

One to four credits per semester.

Prerequisite: Be enrolled in the graduate program and permission from the professor. The course is aimed at developing the necessary skills for psychological research through their active participation in the development of research projects, under the supervision of a professor. The course can be repeated with credits, without limit with the approval of the research professor.

PSIC 6008 Thesis Work

No credits. Meeting by agreement.

Prerequisite: PSIC 6010 The course is designed for those students who need guidance and advice from their thesis advisors in relation to the difficulties encountered in the different phases of the thesis research work and in the preparation and writing of the thesis. The student will enroll in the course each semester in which he/she is carrying out his/her thesis work.

OTHER COURSE DESCRIPTIONS:**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, 3005, 3006 Introduction to the theory and production of life histories for psychosocial analysis. The theoretical presuppositions, the salient methodological themes, 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 socio-cultural 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 Overview of the Development of Psychiatric Knowledge and Its Relationship to Institutional Practices.

PSIC 5007 Psychology of Prevention

Three credits. Three hours of lecture a week.

Prerequisite: Undergraduate students must be in their fourth year and 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 areas 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 sign theory, of the genealogy and structure of linguistic semiosis, of the semiotics of text, of nonverbal communication, and of aesthetics and visual communication. It explores the relationship between semiotics and psychology.

PSIC 5009 Psychology of Cinema

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3003 or 3005 It studies individual and collective ways of life and aspirations, the search for meaning, and acceptance or resistance to modes of social ordering.

PSIC 5015 Introduction to Freud's Seminal Texts: A Critical Reading

Three credits. Three hours of lecture a week.

Prerequisite: 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.

PSIC 6009 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The purpose of this course is to give the student a general examination of the eight areas of psychology that encompass what is typically

taught in a general or introductory psychology course. The areas to be covered are: history and systems, physiological sensation and perception, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area

PSIC 6015 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

The purpose of this course is to give a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, sensation and perception, physiological, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area.

PSIC 6020 Proseminar in General and Applied Psychology: Principles of Psychological Measurement

A credit. Sixteen lecture hours per semester.

This module aims to expose the student to the basic principles of psychological assessment in its broadest sense. The emphasis will be on the discussion of the concepts of validity, reliability, normalization and standardization, among others.

PSIC 6025 Psychosocial Approach to the Study of Organizational Behavior

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program The following topics are covered relatively quickly: organizational design, motivation, satisfaction, communication, conflict, and others. It delves into the discussion of some methods that have been used to try to facilitate change in organizations. It critically evaluates current administrative practice and tries to identify and question the ideology or set of values that informs it. It illustrates the negative consequences of such an ideology and raises the possibility that the tendency of human beings to unilaterally control their situation leads precisely to organizational ineffectiveness. We are invited to invent and explore models of control that lead to effectiveness.

PSIC 6026 Psychological Approach to Development and Change in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 Explores various models of producing information pertinent to organizational development and change. It is hoped that these models will be compared and evaluated so that the student will become familiar with them and feel able to begin to explore the application of some of them.

PSIC 6040 Proseminar in General and Applied Psychology: Principles of Supervision

A credit. Sixteen lecture hours per semester.

Some of the most relevant theories on management and supervision and important aspects of supervision such as objectives, work planning, control, coordination and evaluation will be discussed. The unit will be conducted mainly through lectures, case discussions, and simulation of roles and real situations. Face-to-face, hybrid and online course.

PSIC 6050 Proseminar in General and Applied Psychology: Principles of Consulting

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with consulting and counseling service models in order to know and apply the basic principles of these models to situations that require the advice of a psychologist.

PSIC 6060 Proseminar in General and Applied Psychology: Evaluation of Programs and Services

A credit. Sixteen lecture hours per semester.

This module invites you to review the existing literature on evaluation techniques and strategies in different contexts: government agencies, educational programs, community action programs, and services of a preventive or corrective nature in general.

PSIC 6070 Proseminar in General and Applied Psychology: Puerto Rican Society and Culture

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with the effect of variables resulting from Puerto Rican society and culture on individual and group behavior. Emphasis is placed on the analysis of situations that require the intervention of the clinical psychologist in the light of these variables.

PSIC 6080 Proseminar in General and Applied Psychology: Employee Evaluation

A credit. One hour of lecture per week.

Study of employee evaluation as a system: its methods and techniques. Face-to-face, hybrid and online course.

PSIC 6090 Proseminar in General and Applied Psychology: Identification of Needs and Resources

A credit. One hour of lecture per week and one hour of laboratory time per week. The course attempts to familiarize the student with various methods or models of identifying communal needs and resources. It also attempts to provide critical elements to evaluate different models and put them in contact with the different options used by public agencies.

PSIC 6107 Intercultural Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Psychology This seminar aims to highlight the extent to which social psychology can be subject to cultural variations. Social psychology research in different cultures is studied, analyzed comparatively, and the implications of the findings for existing theories are considered. Emphasis is placed on research on Puerto Rican culture, and an attempt is made to replicate at least one foreign study in our culture.

PSIC 6108 Psychology, Society and Health

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: PSIC 6106 Analysis of the socio-economic conditions, organizations, and social visions that affect the health and disease situation in Puerto Rico and other countries in the Americas. The role of the psychologist in relation to this problem.

PSIC 6115 Analysis of Conflict and Crisis Management Strategies

Three credits. Three hours of lecture per week Conceptual and formal analysis for the management of interpersonal, group and community conflicts.

PSIC 6116 Practice in Conflict and Crisis Management Strategies

No credit.

Prerequisite: Concurrent with PSIC 6115 Supervised Practice in Interventions Aimed at Interpersonal, Group, and Community Conflict Management.

PSIC 6120 Seminar on Community Psychology and Social Policy

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director and instructor The course attempts to examine the content of public policy in the areas of health, education, and social welfare as it applies to community psychology in Puerto Rico. A thorough understanding will allow for effective planning of psychosocial intervention strategies.

PSIC 6195 Social Psychology Seminar

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Study of current issues and issues in social psychology and related areas.

PSIC 6201 *Practicum I*

Three credits. One hour of lecture and twenty hours of laboratory per week. Students will dedicate at least 120 hours to practical work in an organization where they apply the concepts and techniques of the social-industrial program. Students will meet one hour a week with the supervising teacher to discuss problems and consult on references to study. As part of the course, each student will prepare a paper that is publishable in a scientific journal.

PSIC 6202 *Practicum II*

Three credits. Three hours of supervision and eight hours of practice per week. Prerequisite: PSIC 6201 and 6205 Practice in governmental and private organizations with particular attention to the organizational problems of such institutions. The course includes 120 hours of practice, in addition to weekly meetings for supervision.

PSIC 6205 Industrial Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Topics pertinent to the world of work with high social content are covered. Included are the following topics: historical significance of work and needs that are met by work, technology and job satisfaction, formal and informal organization, job analysis, recruitment and selection, introduction to performance evolution and training, as well as termination of employment (layoff, retirement, and exit interviews).

PSIC 6206 Construction of Psychological Tests

Three credits. Two hours of lecture per week. Prerequisite: PSIC 6006

Theory of Constructing Aptitude Tests, Intelligence, Exploitation, personality and interests. Practice in the preliminary development of one of these types of tests.

PSIC 6209 Psychosocial Aspects of Labor Regulations

Three credits.

Prerequisite: Admission to the Critical Analysis of Labor Regulations program in areas such as health, safety, hours, wages, labor unions, and others.

PSIC 6215 Psychosocial Approach to Organizational Conflict

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of psychological and sociological theories of organizational conflict and strategies for their solutions.

PSIC 6216 Psychological Testing Construction Laboratory

A credit. One hour of lab time per week.

Prerequisite: Take simultaneously with PSIC 6206 Laboratory for Question Writing, Item Analysis, Determination of Reliability, Standards, Equivalences, and Validity in Psychological Tests.

PSIC 6218 Psychology and Occupational Health

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6205 or equivalent The Occupational Psychology and Health course explores the workplace with an emphasis on the health, safety, and well-being of the workforce. It emphasizes the interaction of the worker and his or her workplace and its effects on the worker's life in and outside the company. The course explores topics such as: healthy organization, work-family balance and spillover effect, health and productivity, stress and health, violence at work, physiological aspects of illness, safety and accidents, as well as intervention alternatives in work scenarios. As part of the course activities, students will develop a group intervention in an organization identified by them as a contribution to the organization and the quality of life of its members.

PSIC 6225 Psychological Assessment Techniques in Personnel Selection

Three credits. Three hours of lecture a week.

Discussion of the main psychological assessment techniques used in personnel selection. Face-to-face, hybrid and online course.

PSIC 6227 Social Psychology of Work and Production in Contemporary Capitalist Society

Three credits. Three hours of lecture a week.

Analysis of the theories of alienation, communication and organization in relation to the changes in the economy and society, brought about by the contemporary crisis. The perspectives of social psychology in the technological age will be studied.

PSIC 6301 Advanced Developmental Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree in Psychology or counselor's permission Study of the basic principles of human development with emphasis on childhood and adolescence. Critical consideration of recent scientific findings. Special attention is given to the problems and particularities of children and adolescents in Puerto Rico.

PSIC 6302 Advanced Developmental Psychology

Three credits.

Prerequisite: Baccalaureate and with permission of the teacher Based on the study of the principles that govern human development, from conception to the end of adolescence. Subsequent developmental stages will be considered, such as early adulthood, middle adulthood, and the arrival of old age. Parallel to the study of the evolution of the human being during these periods, the psychological circumstances that accompany the attainment of fullness and the descent of life are discussed.

PSIC 6305 Advanced Statistics and Methodological Designs

Three credits. Three hours of lecture a week. Statistical analyses and designs, and the theory thereof.

PSIC 6306 History and Systems of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The course examines the history of psychology, from ideas in the countries of the ancient East to contemporary psychology. An attempt is made to identify the existing historical ties of the latter. Finally, the state of the discipline and its history in Latin America are examined.

PSIC 6311 Teaching Psychology

Three credits. Three hours of lecture a week.

This course focuses on the teaching and assessment of the general psychology course. Innovations in teaching and instructional methods are discussed. The central themes and debates of general psychology, course content, ethics in teaching, and assessment of achievement are discussed.

PSIC 6312 Practice in the Teaching of Introductory Psychology

Three credits. Eight hours of practice per week.

Prerequisite: PSIC 6311 Course designed to provide supervised experiences and skills in teaching psychology. The course includes supervised practice in the different teaching methods.

PSIC 6315 Practice in the Teaching of Advanced Courses in Psychology

Three credits. Twelve hours of supervised practice per week.

Prerequisites: PSIC 6312 and Teacher's Permit Organization and teaching of an advanced undergraduate psychology course under the supervision of a professor. It includes a discussion of the philosophical foundations of teaching and the most recent aspects of the topic to be taught.

PSIC 6317 Advanced Physiological Psychology

Three credits. Three hours of lecture a week.

The course emphasizes a study of the relationship between the physiological system of an organism y conduct. Special attention is paid to the functioning of the central nervous system y its influence on behavior.

PSIC 6318 Human Learning

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The course will broadly cover the verbal memory and verbal behavior of humans. It will include a brief study of the historical background and general methodology; The remainder of the course will consist of the study of various models of memory and/or language interpolation.

PSIC 6325 Psychological Approach to the Study of Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Basic theories about the relationship between mental events and human behavior and effectiveness. The importance of cognitive processes in psychological work in Puerto Rico is emphasized.

PSIC 6327 Use and Application of the Computer to Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission Introduction to the common terminology, principles, and applications of computers to psychological work.

PSIC 6401 Psychological Evaluation I

Three credits. Two hours of lecture per week.

Prerequisite: PSIC 6020, 6405 and 6408.

Critical analysis of the theoretical and practical aspects of psychological assessment by means of the intelligence test. It includes the historical, conceptual and ideological aspects of this mode of evaluation; the Stanford-Binet and Wechsler tests (for children and adults); its uses, scope, limitations, administration, valuation and interpretation.

PSIC 6402 Psychological Evaluation II

Three to four credits. Two hours Prerequisite: PSIC 6401, 6403 Training in the administration and interpretation of various techniques used in personality assessment, such as TAT, Bender-Gestalt, and Draw a Person. It includes supervised practical work, laboratory work, and the submission of written reports.

PSIC 6403 Psychological Assessment Practice I

A credit. Three hours per week of supervision sessions and twelve hours of practice.

Prerequisite: PSIC 6020, 6405, 6408 and be enrolled in PSIC 6501 Supervised experience in administering, assessing, and interpreting intelligence tests, as well as writing psychological reports.

PSIC 6404 Psychological Assessment Practice II

No credit. Four to eight hours of practice.

Prerequisite: PSIC 6401, 6403, and be enrolled in PSIC 6402.

Supervised practice in the administration and interpretation of tests such as TAT, CAT, Bender-Gestalt, Drawing a Person, among others.

PSIC 6405 Theories of Personality and Psychotherapy

Three credits.

Discussion of the basic concepts in personality theory and psychotherapy with particular emphasis on existential and phenomenological approaches. Emphasis is placed on the pertinence and applicability of the concepts and techniques discussed, taking into consideration our diverse social idiosyncrasies and the real situation in which the Puerto Rican psychotherapist renders his or her services.

PSIC 6406 Psychotherapy Practice

No credit. Eight hours of practice per week.

Prerequisite: Enrolled in PSIC 6405.

Supervised practice in individual or group therapy. Practice is an integral part of the PSIC 6405 course.

PSIC 6407 Emergency Clinic and Short-Term Psychotherapy

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission The course proposes the study of a clinical and ethical knowledge that allows, beyond the so-called intervention, a positioning that centrally welcomes the word of the subjects who come to the clinic at a time of intricate conscious and unconscious phenomena that overflow their capacity to manage and tolerance of anguish and encourage them to connect with their crisis and their symptoms as one in which they are able to communicate with their crisis. Not only do they have an impact on external events, but as a production of their own complexity, subjectivity and discourse.

PSIC 6408 Principles of Psychopathology

Three credits. Three hours of lecture a week.

Discussion of various models of psychopathology (biophysical, intrapsychic, phenomenological, behavioral, and sociocultural) with particular emphasis on antecedents, development, and patterns of symptoms. Psychotherapeutic aspects, when pertinent to diverse patterns of psychopathology and sociocultural idiosyncrasies, are also discussed.

PSIC 6409 Practice in Psychopathology

No credit. Four hours of practice.

Prerequisite: Enrolled in PSIC 6408.

Observation, interviews, preparation of histories, diagnosis and clinical discussion of behavioral disorders. Practice is an integral part of the PSIC 6408 course.

PSIC 6410 Advanced Seminar on Behavior Modification

Three credits. Three hours of lecture per week; Practice (optional) Prerequisite: PSIC 6417 Critical and intensive study of the theoretical framework of behavior modification principles and the therapeutic effectiveness of behavior modification techniques.

PSIC 6416 Group Therapy

Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: Be a student of the graduate program in psychology The course will emphasize the theoretical and practical aspects of group therapy and offer a human laboratory for client and therapist experiences in a group psychotherapy environment.

PSIC 6417 Principles of Behavior Modification

Three credits. Three hours of lecture and four hours of practicum Prerequisite: Be a student of the graduate program in psychology Study of the basic psychological principles that govern human behavior, particularly those derived from the psychology of learning. Great emphasis will be placed on the application of social learning principles to the modification of psychotic, neurotic, and maladjusted behavior in clinical and educational institutions. Special attention will also be given to the critical discussion of recent scientific findings in behavior modification with particular interest in the applicability of these findings to maladjustment problems in Puerto Rico.

PSIC 6418 Childhood Behavioral Disorders

Three credits. Two hours of lecture per week; "Practicum" by agreement Prerequisite: Permission from the Department Directorate Problems of etiology, classification, and management of children who manifest extreme isolation, boundless behavior, strange and chaotic tendencies, and behavior determined by organic disorders. Theoretical frameworks, assessment techniques, and diagnosis are considered. Practice opportunities will be provided. Lectures will be offered by guest consultants.

PSIC 6421 Family Therapy I

Three credits. Two lectures and three labs a week.

Prerequisite: PSIC 6405, 6408 Study of some systems of family therapy, their theoretical models, techniques used, and case analyses. Students are offered the opportunity to live simulated family therapy experiences (laboratory) and to conceptualize about their own experiences within the different family systems that they share personally and professionally.

PSIC 6423 Family Therapy Practice I

Three credits. Three to four hours of practice.

Prerequisite: PSIC 6405, 6408, and 6421 Observation Experiences of Family Therapy Sessions; Opportunity to work with families as a cotherapist offering family therapy. Participation in Practice Center meetings, case discussions, and supervisory meetings.

PSIC 6431 Clinical Psychology Practice I

No credit. Twelve hours of supervised practice per week.

Supervised practice in clinical observation, interviews, preparation of reports and histories, and participation in case conferences. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6432 Clinical Psychology Practice II

Two credits.

Prerequisite: PSIC 6431 Supervised practice in intellectual and personality functioning assessments, diagnostic interviews, case conference participation, counseling and individual psychotherapy with special focus on short-term problem-solving and crisis intervention. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6433 Clinical Psychology Practice III

Two credits.

Prerequisite: PSIC 6432 Supervised Practice in Group Individual Psychological Functioning Assessments and Individual Psychotherapy. Supervised experiences of individual psychotherapy, psychodiagnosis, and group therapy will be emphasized in this practice. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6434 Clinical Psychology Practice IV

Two credits.

Prerequisite: PSIC 6433 Practice requires 12 hours of work per week in addition to meetings by appointment. It requires twelve hours of work a week, in addition to meetings with the clinical supervisor.

PSIC 6436 Intramural Practice in Clinical Psychology

Three credits.

Prerequisite: Principal's permission.

Supervised practice in psychotherapy (individual, group, couples and/or families) and psychological evaluation. This internship is carried out in the facilities of the University Center for Services and Psychological Studies (CUSEP) during the summer sessions.

PSIC 6437 Introduction to Clinical Practice

Three credits. One hour of lecture, one hour of discussion, and five hours of supervised practice per week.

The clinic is structured around concepts and foundations that provide a basis and contextualize the experiential (practical) experience. In this course, the basic concepts will be presented in a theoretical-practical-therapeutic integration. This will be carried out specifically through the discussion of different aspects: theoretical frameworks, clinical observation, interview styles and processes, clinical conceptualization, therapeutic processes, and clinical contexts.

PSIC 6505 Dream Module

A credit. Three hours of lecture a week.

Prerequisite: Director's Permission The meaning of dreams from the physiological and psychological point of view, Jung's theory of dreams and that of Dr. Efrén Ramírez. Method of dream interpretation designed by Dr. Ramírez, and its usefulness in terms of personal development, as a method of psychotherapy and as a method of group therapy.

PSIC 6506 Colloquium on Topics in Psychology

No credit. One hour of meeting per week.

Lectures, discussion and exchange of ideas between professors of the Department, students and guest lecturers. The student will enroll each semester.

PSIC 6507 The Psychology of Women

Three credits. Three hours of lecture a week.

This course is organized around the question of whether there is such a thing as a female psychology and what its biological and social determinants are. The acquisition of sex roles and their historical determination and cross-cultural relativity are studied. The literature is reviewed in relation to the biological, sexual, cognitive and affective functioning of women. In addition, it studies the development of feminist movements, the socio-political situation of women in industrial society, and the impact of these changes on relations between the sexes, the family, and Puerto Rican society.

PSIC 6510 Seminar on the Family in Puerto Rico

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

Prerequisite: Permission from the Director Analysis and Research of the History and Psychosocial Aspects of the Family in Puerto Rico. The main purpose of the seminar is to promote psychosocial research on the family and its problems.

PSIC 6515 Intelligence, Creativity, and Cognitive Complexity

Three credits. Three hours of lecture a week.

The concepts of intelligence, creativity, and cognitive complexity will be contrasted and the relevance of these concepts for today's Puerto Rican society will be determined.

PSIC 6516 Supervised Reading Course

Three credits.

Prerequisite: Teacher's permission The readings revolve around a topic chosen by the students and the teacher. The student covers the concepts with the teacher's approval and prepares a monograph on the concept of his/her preference.

PSIC 6517 Advanced Psychopharmacology and Neurophysiology of Drug Use and Abuse

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Knowledge of the psychophysiological system and its alteration through the use of chemical substances is deepened. Students will become familiar with the chemical and pharmacological aspects of the substances that are abused, as well as those used in the different treatment modalities (methadone, naltrexone, etc.). Particular attention will be given to the study of human behavior and its interaction with the action of substances on the psychophysiological system.

PSIC 6518 Psychology of the Young

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6301 Study of theories and research that explain typical youth processes, taking into account the cultural variables that contribute to the formulation of such theories and the design of such research. Discussion of the physical, cognitive, social and affective aspects of development, as well as the evolution of the identity and sexuality of the young person. Analysis of family processes, school experience, relationships with peers and the influence they have on development.

PSIC 6525 Psychological Analysis of Power

Three credits. Three hours of lecture a week.

Analysis of the concept of power at the individual level (power traits, power motivation, foci of control), at the group level (leadership, relations between the sexes). Some emphasis will be given to the communal and institutional levels.

PSIC 6526 Spirituality in Psychology

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

Prerequisites: PSCI 3005 or 3003 This graduate-level course examines contemporary conceptualizations and debates surrounding the notion of spirituality in the work of psychology, particularly its integration into therapeutic practice and in the preparation of the helping professional. It reviews the ethical premises for psychology as it integrates spirituality into its research and practice.

PSIC 6527 Fundamentals of Human Sexuality

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director This introductory course aims to offer insight into human sexuality. It includes processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective and in its social dimension. The student will examine some sexual issues in Puerto Rican society.

PSIC 6528 Violence and Complexity

Three credits. Three hours of seminar per week.

The purpose of this course is to contribute to the production of a conceptual framework in which to situate violence as a complex, socially constructed phenomenon. The relationship between psychic life and social life will be studied from the centrality that the signifier of violence has acquired in our contemporaneity. This includes a close examination of the relationships between the history of the constitution and identifications of the subject (subjectivation) and the world we share with others (intersubjectivity) and its relation to violence. The contributions of the knowledge produced by the psychoanalytic discourse for the analysis of violence will be examined and dialogic relations between the psychoanalytic discourse and other contemporary fields of theorization such as poststructuralism, deconstructivism, social constructivism and Lacanian psychoanalysis will be promoted. The contributions of traditional psychology to the subject of violence are critically examined.

PSIC 6529 Review and Critical Analysis of the Psychological Literature in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Have passed a minimum of 9 graduate credits.

Review of research and publications that have been done in Puerto Rico, their theoretical frameworks, methodology and implications to understand the psychological reality of Puerto Ricans. A framework for analysis and critique will be provided.

PSIC 6535 Theoretical Controversies on Human Development: Early Childhood

Three credits.

Different aspects of human development from birth to seven years of age will be examined. The approach is epistemological, emphasizing the basic assumptions of the discipline, the fundamental controversies, and the ideological and philosophical aspects of the theories examined.

PSIC 6537 Psychopathology of Affective Development in Childhood: Psychoanalytic Perspective

Three credits.

Prerequisite: Permission of the director To provide a clinical view of the child's affective development from a psychoanalytic perspective, allowing knowledge of child psychopathology.

PSIC 6545 Program Evaluation and Consulting

Three credits. Three hours of lecture a week.

Introduction to the basic concepts and methods of consulting and program evaluation and the ethical and evaluative controversies surrounding them. Emphasis is placed on developing skills in these areas and applying them in public service programs and private agencies for non-pecuniary purposes.

PSIC 6546 Analysis of Interventions in Organizations: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 or its equivalent, permission of the director or PSIC 6026 Analysis of interventions carried out in public and private organizations in and outside Puerto Rico, in light of the conceptual models that guide them. Different intervention models, their purposes, conceptual frameworks and ethical principles are presented. Analysis of the current applications of these and other models, paying particular attention to the congruence between theory and practice.

PSIC 6555 School Psychology

Three credits. Three hours of discussion a week.

General orientation on school psychology, focusing the discussion on the public education system of Puerto Rico and on the ethical principles of the discipline. It focuses on the various functions that are carried out in professional practice in this area and on the historical and future development of school psychology.

PSIC 6591 Practice in School Psychology I

Three credits. Eleven hours of supervised practice per week.

Prerequisite: PSIC 6555 Supervised practice in providing services in the school setting that includes experiences such as: direct classroom observation, health promotion and prevention, community relations, interventions with academic and discipline problems.

PSIC 6592 School Psychology Practice II

Three credits. Three hours of direct supervision and ten hours of practice per week in the school setting.

Prerequisites: PSIC 6401, 6403, 6555, and 6591 Continuation of Supervised Practice in Providing Psychological Services in a School Setting. The student will gain experience in intervention strategies such as crisis and conflict intervention, management of specific behaviors in groups, interdisciplinary teamwork, psychoeducational and program evaluations. The course is complementary to PSIC 6591.

PSIC 7005 Seminar in School Psychology: The Functions of the School Psychologist

Three credits. Fifteen hours of lecture per week.

Prerequisite: Director's Permission Study of the Clinical Process with Learning and Behavioral Disabilities. Emphasis on the integration of data from case histories, interviews, and psychometric tests.

PSIC 8000 Philosophical Foundations of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Changes in the Paradigms of Science and Their Consequences in Psychology.

PSIC 8001 Dissertation Seminar

No credit. Three hours of discussion a week.

Prerequisite: Master's degree or PSIC 6007. Permission of the director and/or coordinator of the graduate program. The dissertation is original research that demonstrates the student's capabilities as an independent researcher. During his/her dissertation seminar, the student will choose his/her research topic and problem, review the literature (relevant theoretical and empirical findings) and elaborate the research design or action plan. You will submit a formal proposal to the dissertation committee for approval.

PSIC 8002 Dissertation Paper

No credit. Three hours of discussion a week.

Prerequisite: PSIC 8001. This course is designed for the purpose of following up on the work done in the dissertation seminar. In this case, the research proposed in the seminar course will be completed, i.e., the information will be collected and interpreted with the advice of the dissertation committee. The student will enroll in the course each semester in which he/she is carrying out his/her dissertation work and will submit written reports of his/her progress periodically. You will complete your thesis work by submitting the final dissertation essay.

PSIC 8005 School Psychology Seminar: Professional Problems of School Psychology

Three credits. Three hours of lecture a week.

In-depth examination and analysis of unresolved problems in the area of psychoeducational diagnosis and intervention and behavior modification; Counseling, consulting, and counseling for parents.

PSIC 8007 School Psychology: Mental Health Consulting in Schools

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director, student consortium. Consulting as a model of school psychological service. The student will become familiar with and train in various modalities and levels of consulting that will be used as a school psychologist. The research and evaluative aspects of the consultancy will be studied.

PSIC 8015 Advanced Social Psychology II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105. Examines historical forms of subjectivity in areas of everyday life such as child-rearing, morality, sexuality, and love relationships.

PSIC 8017 Seminar on Multiple Perspectives in Research II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007. Examination of the different theoretical fields in psychology and their research. Analysis of the most commonly used assumptions, research strategies, methods and techniques.

PSIC 8018 Contemporary Social Research: Meeting with its Authors

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007, and PSIC 8017 Diverse approaches in social science research by meeting researchers and discussing their research with them.

PSIC 8019 The Social Scientist as a Judicial Expert

Three credits. Three hours of lecture a week.

Prerequisite: Master's degree in psychology or in one of the social sciences Theoretical and practical considerations in the preparation of the social scientist as a judicial expert.

PSIC 8027 Advanced Psychobiology: Fundamentals, Uses, and Controversies

Three credits.

In the period of discussion, the influences of modern biology are considered, particularly the evolutionist, etiological and systemic currents in the psychological conceptualization of the human being. Essential concepts such as assessment, adaptation, species-typical behavior, biological niche, and systemic organization. The discussion period is complemented by a hands-on laboratory when considering the controversies and applications of a psychobiological approach.

PSIC 8028 Psychopharmacology

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

Prerequisites: PSIC6317 or PSIC8027.

Aspects of psychopharmacology and neurophysiology will be discussed in the course. It will include lectures on Anatomy and Physiology of the Nervous System, Synaptic Neurochemistry, Pharmacokinetics and Pharmacodynamics and on the neuropharmacological impact of different drugs on states of consciousness and behavior. The neurobiological basis of mental disorders, the mechanisms of action of different medications and the strategies used in experimental studies and clinical psychopharmacology will be studied. Anxiolytics and antidepressants, antipsychotic drugs, sedative hypnotics, and narcotics will be discussed. The content will be presented from both a basic science perspective and from a clinical orientation combining lectures and lecture discussions. The course is designed especially for students of the graduate program of Clinical Psychology and for doctoral students with a specialization in Academic-Research Psychology.

PSIC 8105 Psychology and Social Movements

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 The theoretical-practical contributions of psychology to the social movements of the last decades in Puerto Rico are analyzed.

PSIC 8115 Social Psychology of Education

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 or EDUC 6270 Examination of the crises of education in contemporary capitalist society. Critical analysis of the most important theoretical fields for its explanation. The social construction of education and the new subjectivity.

PSIC 8125 The Sociocultural Study of the Mind

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

Analysis of the sociocultural approach as a conceptual framework in the study of the mind. Discussion of the historical background of the approach and its development to the present with emphasis on the research program it has generated.

PISC 8201 Human Development: The Life Cycle

Three credits. Three hours of lecture a week.

The course proposes an overview of theories and research related to the development of the human subject. The relationship between the physical, cognitive and socio-emotional development of the subject from childhood to old age will be covered. Emphasis will be placed on the theoretical and scientific foundations of developmental psychology. The student will not only have information concerning developmental processes, but also a critical understanding of the processes underlying human development. The course will emphasize the dynamic processes of development and the dialectic between psychological processes and development. Face-to-face course.

PSIC 8202: Psychological Approach to the Study of Cognitive and Affective Processes

Three credits. Three hours of lecture a week.

This course studies the main theoretical models used to explain the human cognitive and affective aspects of behavior. The emergence of cognitive psychology is examined by considering socio-historical transformations. Information processing models, genetic epistemology, historical-cultural perspective, and affective processes are analyzed. Cognitive processes such as attention, sensation, perception, memory, language, and problem-solving are discussed. In particular, it analyzes how affective processes and cultural differences shape cognitive processes and human behavior. Face-to-face course.

PSIC 8203 Models and Techniques of Psychotherapy

Three credits. Three hours of lecture a week.

This course focuses on the exposition of the different theoretical models of psychotherapy, as well as their origins and evolutions. Once the basis of the theoretical models is established, current therapeutic approaches will be examined from a critical point of view, emphasizing the conceptual problems, methodology, and alternatives to deal with such problems. Evidence-based psychotherapeutic approaches used with different populations will also be discussed. Face-to-face course.

PSIC 8204 Personality and Human Diversity

Three credits. Three hours of lecture a week.

This course addresses the categories of personality, subjectivity and subjectivation from a critical and complex approach. It examines the paradigmatic assumptions underlying theories of personality and traditional approaches to the study of the human being. It proposes a conceptual approach that includes debates on the human from the paradigm of complexity, constructivism, psychoanalytic theory and updated foundational psychological premises. It explores the application of this conceptual approach to the human, pertinent in contemporary clinics, as well as particular considerations of the Puerto Rican population and the inescapable sensitivity to differences and cultural and individual diversity necessary in psychological formation. Face-to-face course.

PSIC 8205 Advanced Psychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401 and PSIC Training in the administration and interpretation of various techniques used in personality assessment such as: TAT, Bender Gestalt and Drawing the Person. It includes supervised practical work, laboratory work, and the submission of written reports. Face-to-face course.

PSIC 8206 Advanced Psychological Assessment Practice

A credit.

Prerequisites: PSIC 6401 and PSIC 6403 Corerequisite PSIC 8205 Intensive practice in the administration and evaluation of the following tests: Thematic Apperception Test (TAT), Apperception Test for Children (CAT), Bender Gestalt Visual-Motor Test, Human Figure Drawing among other tests. To the above are incorporated the tests contained in the Psic course. 6401; Psychological Assessment I, worked on in the practice of this course, Psic. 6403. Personality inventories such as the *Personality Assessment Inventory (PAI)*, the *Minnesota Multiphasic Personality Inventory-2 (MMPI-2)* and Rorschach basics are also included. Emphasis is placed on the clinical approach of the responses of the subjects with whom we work, which are part of their discourse

e life story. Face-to-face course.

PSIC 8215 Psychology and Law

Three credits.

Analysis of basic concepts common to psychology and law.

PSIC 8216 Employment and Discrimination.

Three credits. Three hours of lecture a week. Prerequisite: Director's Permission Critical Analysis of Discrimination in Employment and Its Consequences.

PSIC 8300 Advanced Clinical Psychology Practice

A credit. Three hours of supervised practice.

Prerequisites: PSIC 6434 This advanced clinical practice in psychotherapy (individual, group, couples and/or families, and/or psychological evaluations), allows students to increase their face-to-face clinical hours and refine their clinical skills. During this advanced internship, students will also be able to increase exposure to diverse populations and rotate into externship clinical internships. Face-to-face course.

PSIC 8301 Advanced Family and Couples Therapy

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6432 & PSIC 8203 Corequisites: PSIC 8302 This course provides the student with an overview of the basic concepts and fundamentals of family and couples therapy. They will also become familiar with the various systemic theoretical models. The different techniques used by the different theoretical models will be emphasized. In the same way, they will develop group research skills that respond to a family or couple problem. Face-to-face course.

PSIC 8302 Advanced Family and Couples Practice

A credit. Supervised practice.

Prerequisites: PSIC 6432 and PSIC 8203 Corequisites: PSIC 8301 This course is a clinical practice where the student has the opportunity to acquire the advanced clinical skills to work with couples and families from a systemic perspective. During this clinical practice, the student will have interventions with clinical cases using one or more systemic theoretical models. This practice should be taken simultaneously with the theoretical course of advanced therapy for families and couples. Face-to-face course.

PSIC 8303 Research Practice

A credit.

The goal of this course is to foster the research experience in students. These will join a faculty member's project to acquire and refine research skills. They will be working under the supervision of a mentor/researcher. Students are required to attend one hour per week of research under the mentorship of their supervisor. Each supervisor's research project will have a brief description of their research. This course can be taken more than once to continue with a research project. In addition, their respective research supervisors will add additional references to the course. Face-to-face course.

PSIC 8304 Clinical Supervision Seminar

A credit.

Prerequisite: PSIC 6433 This course provides the student with an overview of clinical supervision and the different approaches and models of supervision applied to clinical psychology. The student is exposed to the development of supervision as a fundamental part of the training of a psychologist. The student will be able to appreciate different conceptualizations of clinical supervision according to each theoretical model and its particular objectives, approaches, and strategies. In addition, you will learn the difference between supervision and consulting. In addition, the student will have the opportunity to create and develop instruments to measure variables that should be present in each psychotherapeutic model. There will be integration in theory and research in the search for research publications on psychotherapy and supervision. Face-to-face course.

PSIC 8335 Research Methods in Human Developmental Psychology

A credit. Three hours of lecture a week.

Prerequisite: PSIC 6006, 6007, 6301 and permission Discussion of the most frequently used methods in psychological research on human development. Examination of the central issues of time analysis, changes over life, the contributions of the evolutionary approach, and the relationship between research and theory development.

PSIC 8405 Linking Theory: Critical Analysis and Clinical Application

Three credits. Three hours of lecture a week.

It discusses the basic assumptions of theory based on etiological study. It is compared with other dynamic approaches and clinical applications are derived.

PSIC 8407 Rorschach Technique

Four credits. Three hours of lecture and three hours of supervised practice per week.

Prerequisites: PSIC 6020, 6401 and 6402 Introductory course in the Rorschach psychological assessment technique. It includes the theoretical basis of the latter, the principles of administration, qualification and interpretation. Provide hands-on experience.

PSIC 8409 Psychotherapeutic Research: Process and Outcome

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

Prerequisite: Teacher's permission Formal research on psychotherapy programs with children, adolescents, and adults in various modalities (such as individual, group, couples, and family). Review of research on psychotherapeutic processes and outcomes.

PSIC 8411 Psychoanalytic Seminar Part I: Adult

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Study of Freud's writings, fundamental for the knowledge of subjectivity.

PSIC 8412 Psychoanalytic Seminar Part II: Child

Three credits. Three hours of lecture a week.

Study of the basic texts of the most important psychoanalysts in the field of child psychoanalysis.

PSIC 8415 Analysis and Reflection on the Practice of Clinical Psychology in Puerto Rico

Three credits. Three hours of lecture per week and nine hours of lab. Prerequisite: PSIC 6431, 6432, 6433, and 6434 Advanced Supervised Practice in Psychotherapy (Individual, Group, Couples and/or Family, and/or Psychological Evaluations). It makes it possible to generate new approaches and models of intervention, as well as to refine clinical skills and delve into particular populations or problems. This practice course consists of three credits per semester and can be repeated up to three times.

PSIC 8416 Psychological Evaluation of Children with Disabilities

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3025, 6301, 6401, 6402, 6403 and 6404 Theoretical and Methodological Controversies on the Psychological Evaluation of Children with Disabilities. Examination of the effects of impairment on children's development, their families and the problem of social and educational placement.

PSIC 8420 Seminar: Family Study

Three credits.

Prerequisite: PSIC 6421 Critical Study of the Theoretical and Research Literature on Families and Its Applicability in Puerto Rico. Research techniques will be developed for the study of families in Puerto Rico.

PSIC 8425 Psychotherapy Supervision Seminar

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: 60 graduate credits in clinical psychology or equivalent.

Critical consideration of the theoretical and practical aspects of psychotherapy supervision. Hands-on experience in observation, research, and supervision.

PSIC 8495 Internship in Clinical Psychology

No credits.

Prerequisite: Permission from the chair of the department of psychology or coordinator of the graduate program and PSIC 6431, 6432, 6433, 6434 Supervised Practice in Clinical Psychology up to the accumulation of 2,000 hours of professional experience as the last requirement for the doctoral degree.

PSIC 8505 Psychology and Reason

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007 Analysis of the separation of body and the "software/hardware" fission of work and its consequences on the constitution and development of psychology.

PSIC 8506 Advanced Seminar on Community Psychology: Contemporary Debates

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105; PSIC 6106 Contemporary Debates on Community Psychology and Their Concretion in Research and Intervention. The discussion is framed in community psychology in Puerto Rico.

PSIC 8507 Consulting in the School Context

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6555 Study of the different roles and functions of the consultant in the school context. In-depth discussion of the basic principles and intervention models in professional psychological consulting. Emphasis on the stages of the consulting relationship and the processes that take place during the intervention.

PSIC 8508 Consulting Practice in the School Context

Zero credits. Ten hours of supervised practice and three hours of supervision.

Prerequisite: PSIC 6555.

Supervised practice in consulting in the school context in which theoretical knowledge is applied and skills of the discipline are developed. The course is complementary to consulting in the school context (PSIC 8507).

PSIC 8515 Biological Approaches to the Study of Psychopathology

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6408, PSIC 6317 or PSIC 8027 Study of biological models that have been proposed to explain various conditions of human psychopathology. Emphasis on critical analysis of research that supports or contradicts these models and the pharmacological interventions that derive from them. Analysis of the most important controversies in the application of these
y its impact on the practice of psychology.

PSIC 8516 Psychoeducational Evaluation

Three credits. Three hours of lecture per week and two hours of supervised practice a week.

Prerequisites: PSIC 6401, 6403, and 6555 Analysis of psychological and educational concepts and strategies used in psychoeducational assessment. It includes the conceptualization of what assessment is in the school context, assessments of academic achievement, basic writing skills, reading mathematics, as well as social performance and dynamic cognitive aspects and pedagogical strategies. Integrate, as fundamental aspects of psychoeducational evaluation, modalities of corrective and remedial intervention strategies. Provide for the application of concepts and the development of particular skills that allow psychoeducational evaluations to be carried out.

PSIC 8525 The Game: Reflection, Analysis and Intervention

Three credits. Two hours of lecture per week and two hours of supervised practice per week.

Prerequisite: PSIC 8405, and PSIC 8412 Study of play in children from the psycho-analytic and interactional perspective and its implications in clinical practice with children. Critical examination of other theoretical perspectives and their clinical application. Supervised practice in clinical intervention. **Mailing Address:** 9 Ave Universidad, Suite 901 San Juan



PR 00925-2529 **Direct Phone:** (787) 763-5499

Phone extensions: (787) 764-0000, extensions 87543, 87546, 87548

Portal: <https://sociales.uprrp.edu/psicologia/>

DEGREE: PhD in Philosophy with a specialization in Psychology

TEACHERS:

Cruz Bermúdez, Nelson D., PhD, Brandeis University, 2007, Assistant Professor.

Research topics: Neuroscience of drug addiction and mental disorders; neuroeducation.

Dávila Marrero, Elixmahir, PhD, University of Puerto Rico, 2005, Assistant Professor.

Research topics: Neuropsychological assessment and neurocognitive rehabilitation of neurodegenerative diseases and TBI. Use of video games as a cognitive rehabilitation tool with children and adolescents. Alternative education as a current educational strategy. Standardization of psychological testing for the Puerto Rican population.

Espada Brignoni, Teófilo, PhD, University of Puerto Rico, 2015. Research topics: Culture

and subjectivity, Social movements, Empathy, Attributions and discourses in everyday life, Processes of subjectivation, Art and community intervention, Psychology and literature, Music and society.

Galarza García, Laura, PhD, Rice University, 2000, Professor. Research Topics:

Industrial-Organizational Psychology; Comparative and International I/O Psychology; Aerospace Psychology; strategy and organizational change; Selection, development and management of individual and organizational performance; Work engagement.

García Ramos, Tania, PhD, Universidad Complutense de Madrid, 1995, Professor.

Research Topics: Industrial Organizational Psychology; Psychology of work and organizations; Work and subjectivity; Theorizing around work; research methodology; Epistemology of complexity.

Gómez Escudero, María de los Ángeles, PhD, Université de Paris V, 1991, Professor.

Research topics: Parenting and filiation; the body in speeches; Problems of Psychopathology, Psychoanalytic Clinic.

Jiménez Torres, Aida, PhD, University of Puerto Rico, 1993. Associate Professor.

Research Topics: Family and Couples: Attachment: Multiculturalism and Psychotherapy.

Martínez Mejías, Sylvia, PhD, University of Puerto Rico, 1998, Professor. Research topics:

Studies in affective bonding and attachment theory; Court expertise in custody and special education cases; Evaluation in early intervention and developmental deficiencies.

Méndez Castillo, Milagros, PhD , Fordham University, 1993, Associate Professor. Research topics: Sexuality in adolescents, Violence in schools, Health psychology, Teaching psychology.

Miranda Gierbolini, Dolores, PhD, Temple University, 1987, Professor. Research topics: Development of sustainable communities, Social movements, Social policy, Political subjectivations, critical citizenship and social change, The human in the ecological complex, The hidden faces of violence.

Morales Arandes, Edgardo, Ed.D, Boston University, 1986, Associate Professor. Research topics: Language and metaphor as models for the construction of socio-organizational and personal realities; participation and democracy at work; relational constructionism; constructionist approaches to psychotherapy; dialogic and collaborative practices; evidence-based psychotherapy; qualitative research.

Nina Estrella, Ruth V., PhD, National Autonomous University of Mexico, 1991, Professor. Research topics: Interpersonal communication, family, couple relationships and sexuality and adolescence.

Ruiz Alfaro, Frances, PhD, University of Puerto Rico, 2014. Assistant Professor. Research topics: Affective bonding; Discourse and Literature, Subjectivity; Autism Spectrum Disorder Evaluation.

Santiago Estrada, Sara, PhD , University of Puerto Rico, 2013. Associate Professor. Research Topics: Transformations at Work; Study of subjectivities in work scenarios, educational organizational scenarios; Change in organizations.

Tirado Santiago, Giovanni, PhD, McGill University, 2006, Associate Professor. Research topics: Neural plasticity; biopsychology of learning and memory; Neuroimaging of cognitive functions in major depression.

Vale Nieves, Otomie, PhD, University of Puerto Rico, 1993, Professor. Research Topics: Technology and Learning; development, subjectivity and historical context; critical psychology; language and subjectivity; construction of the youth, technology and gender.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Possesses, or is in the process of completing no later than the summer of the year in which you intend to commence graduate studies, a bachelor's or bachelor's degree from an accredited institution or university.
2. Have a general academic index of not less than 3.00 points (or its equivalent in the grading system of the university of origin) or a general academic index (baccalaureate and master's degree) of no less than 3.00 points if you have a master's degree.
3. Academic index of no less than 3.00 points in: (a) General or Introductory Psychology; (b) Social Psychology; (c) Elements of Statistical Reasoning; (d) Psychological Research Methodology.
4. Be fluent in Spanish and English.
5. Attend an interview.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself platform*.
2. Two official transcripts.
3. Provide a *resume*.
4. Write an essay.

Other Requirements (for those candidates who qualify)

1. Group interview for which you will be summoned.

GRADUATION REQUIREMENTS:

In addition to the general requirements for earning a master's degree from the Rio Piedras Campus, students must complete one semester of residency.

PROGRAM OF STUDY:

Code	Requirements	Credits
Core Courses (18 credits)		
PSIC 6305	Advanced Statistics and Methodological Designs	3
PSIC 8000	Philosophical Foundations of Psychology	3
PSIC 8017	Seminar on Multiple Perspectives in Research II	3
PSIC 6105 or PSIC 8015	Advanced Social Psychology I or II	3

Code	Requirements	Credits
PSIC 6317 or PSIC 8027	Advanced Physiological Psychology or Advanced Psychobiology	3
PSIC 6325 or PSIC 8125	Psychological Approach to the Study of Cognitive Processes or The Sociocultural Study of the Mind	3
Elective Courses (18 credits)		
Application Examination		
XXXX	Candidacy Examination	0
Dissertation		
PSIC 8001	Dissertation Seminar	0
PSIC 8002	Dissertation Work	0

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PSIC 6305 Advanced Statistics and Methodological Designs

Three credits. Three hours of lecture a week. Statistical analyses and designs, and the theory thereof.

PSIC 8000 Philosophical Foundations of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Changes in the Paradigms of Science and Their Consequences in Psychology.

PSIC 8017 Seminar on Multiple Perspectives in Research II

Three credits. Three hours of lecture a week.

Prerequisite PSIC 6007 Examination of the different theoretical fields in psychology and their research. Analysis of the most commonly used assumptions, research strategies, methods and techniques.

PSIC 6105 Advanced Social Psychology

Three credits. Three hours of lecture a week.

The course is organized around the problem of the social construction of reality. An attempt is made to develop both a theoretical and methodological framework for the study of it. For this purpose, several theories are studied, such as ethnomethodology, symbolic interactionism, role theory; and it will delve into areas such as deviance and social control, attitudes, attribution, social comparison, social movements, and ideology. An effort will be made to use Puerto Rican literature to illustrate and understand the social construction of reality.

PSIC 8015 Advanced Social Psychology II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Examines historical forms of subjectivity in areas of everyday life such as child-rearing, morality, sexuality, and love relationships.

PSIC 6317 Advanced Physiological Psychology

Three credits. Three hours of lecture a week.

The course emphasizes a study of the relationship between the physiological system of an organism y conduct. Special attention is paid to the functioning of the central nervous system y its influence on behavior.

PSIC 8027 Advanced Psychobiology: Fundamentals, Uses, and Controversies

Three credits.

In the period of discussion, the influences of modern biology are considered, particularly the evolutionist, etiological and systemic currents in the psychological conceptualization of the human being. Essential concepts such as assessment, adaptation, species-typical behavior, biological niche, and systemic organization. The discussion period is complemented by a hands-on laboratory when considering the controversies and applications of a psychobiological approach.

PSIC 6325 Psychological Approach to the Study of Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Basic theories about the relationship between mental events and human behavior and effectiveness. The importance of cognitive processes in psychological work in Puerto Rico is emphasized.

PSIC 8125 The Sociocultural Study of the Mind

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

Analysis of the sociocultural approach as a conceptual framework in the study of the mind. Discussion of the historical background of the approach and its development to the present with emphasis on the research program it has generated.

PSIC 8001 Dissertation Seminar

No credit. Three hours of discussion a week.

Prerequisite: Master's degree or PSIC 6007. Permission of the director and/or coordinator of the graduate program The dissertation is original research that demonstrates the student's capabilities as an independent researcher. During his/her dissertation seminar, the student will choose his/her research topic and problem, review the literature (relevant theoretical and empirical findings) and elaborate the research design or action plan. You will submit a formal proposal to the dissertation committee for approval.

PSIC 8002 Dissertation Paper

No credit. Three hours of discussion a week.

Prerequisite: PSIC 8001 This course is designed for the purpose of following up on the work done in the dissertation seminar. In this case, the research proposed in the seminar course will be completed, i.e., the information will be collected and interpreted with the advice of the dissertation committee. The student will enroll in the course each semester in which he/she is carrying out his/her dissertation work and will submit written reports of his/her progress periodically. You will complete your thesis work by submitting the final dissertation essay.

OTHER COURSE DESCRIPTIONS:**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, 3005, 3006 Introduction to the theory and production of life histories for psychosocial analysis. The theoretical presuppositions, the salient methodological themes, 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 socio-cultural 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 Overview of the Development of Psychiatric Knowledge and Its Relationship to Institutional Practices.

PSIC 5007 Psychology of Prevention

Three credits. Three hours of lecture a week.

Prerequisite: Undergraduate students must be in their fourth year and 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 areas 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 sign theory, of the genealogy and structure of linguistic semiosis, of the semiotics of text, of nonverbal communication, and of aesthetics and visual communication. It explores the relationship between semiotics and psychology.

PSIC 5009 Psychology of Cinema

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3003 or 3005 It studies individual and collective ways of life and aspirations, the search for meaning, and acceptance or resistance to modes of social ordering.

PSIC 5015 Introduction to Freud's Seminal Texts: A Critical Reading

Three credits. Three hours of lecture a week.

Prerequisite: 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.

PSIC 6005 Theories of Personality

Three credits.

Study of theories on the structure, dynamics and development of personality, emphasizing contemporary approaches. Critical examination of problems, theories, and research that help clarify the role of motivation in personality.

PSIC 6006 Statistics Applied to Psychology

Three credits.

Statistical methods and their applications in psychological research. Data collection, organization, and analysis; frequency distribution; measures of central tendency, variation, asymmetry, and kurtosis; theoretical, binomial, normal, and Poisson distributions; sampling, sampling distribution, hypothesis testing for large and small samples; point-based and interval-based estimates.

PSIC 6007 Seminar: Methods of Psychological Research

Three credits. Three hours of lecture a week.

Discussion of the basic methods of research in the field of psychology, with examples of the most frequently used techniques. Discussion of topics such as controls in psychological research, the concept of explanation and prediction, the practicalities of different research problems, the selection of areas, methods, and topics in psychological research.

PSIC 6008 Thesis Work

No credits. Meeting by agreement.

Prerequisite: PSIC 6010 The course is designed for those students who need guidance and advice from their thesis advisors in relation to the difficulties encountered in the different phases of the thesis research work and in the preparation and writing of the thesis. The student will enroll in the course each semester in which he/she is carrying out his/her thesis work.

PSIC 6009 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The purpose of this course is to give the student a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, physiological sensation and perception, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area

PSIC 6010 Thesis Seminar

Three credits.

Prerequisite: PSIC 6007 Seeks to hone the creative and critical capacities of participants through the cultivation of dialogue and scientific exposition, both oral and written. It requires the preparation of candidates for the critical examination before the faculty panel and fellow students.

PSIC 6015 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

The purpose of this course is to give a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, sensation and perception, physiological, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area.

PSIC 6020 Proseminar in General and Applied Psychology: Principles of Psychological Measurement

A credit. Sixteen lecture hours per semester.

This module aims to expose the student to the basic principles of psychological assessment in its broadest sense. The emphasis will be on the discussion of the concepts of validity, reliability, normalization and standardization, among others.

PSIC 6025 Psychosocial Approach to the Study of Organizational Behavior

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program The following topics are covered relatively quickly: organizational design, motivation, satisfaction, communication, conflict, and others. It delves into the discussion of some methods that have been used to try to facilitate change in organizations. It critically evaluates current administrative practice and tries to identify and question the ideology or set of values that informs it. It illustrates the negative consequences of such an ideology and raises the possibility that the tendency of human beings to unilaterally control their situation leads precisely to organizational ineffectiveness. We are invited to invent and explore models of control that lead to effectiveness.

PSIC 6026 Psychological Approach to Development and Change in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 Explores various models of producing information pertinent to organizational development and change. It is hoped that these models will be compared and evaluated so that the student will become familiar with them and feel able to begin to explore the application of some of them.

PSIC 6030 Proseminar in General and Applied Psychology: Ethical Issues in Psychology

A credit. Sixteen lecture hours per semester.

The course will familiarize the student with the problems and considerations to be taken in the construction, development and application of an ethical system for the profession, the basic premises, notions and ethical implications of using various models of man will be analyzed as illustrated with the various psychological paradigms. The discussion of cases, situations and paradoxes in the practice of professional psychology will be used.

PSIC 6040 Proseminar in General and Applied Psychology: Principles of Supervision

A credit. Sixteen lecture hours per semester.

Some of the most relevant theories on management and supervision and important aspects of supervision such as objectives, work planning, control, coordination and evaluation will be discussed. The unit will be conducted mainly through lectures, case discussions, and simulation of roles and real situations. Face-to-face, hybrid and online course.

PSIC 6050 Proseminar in General and Applied Psychology: Principles of Consulting

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with consulting and counseling service models in order to know and apply the basic principles of these models to situations that require the advice of a psychologist.

PSIC 6060 Proseminar in General and Applied Psychology: Evaluation of Programs and Services

A credit. Sixteen lecture hours per semester.

This module invites you to review the existing literature on evaluation techniques and strategies in different contexts: government agencies, educational programs, community action programs, and services of a preventive or corrective nature in general.

PSIC 6070 Proseminar in General and Applied Psychology: Puerto Rican Society and Culture

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with the effect of variables resulting from Puerto Rican society and culture on individual and group behavior. Emphasis is placed on the analysis of situations that require the intervention of the clinical psychologist in the light of these variables.

PSIC 6080 Proseminar in General and Applied Psychology: Employee Evaluation

A credit. One hour of lecture per week.

Study of employee evaluation as a system: its methods and techniques. Face-to-face, hybrid and online course.

PSIC 6090 Proseminar in General and Applied Psychology: Identification of Needs and Resources

A credit. One hour of lecture per week and one hour of laboratory time per week. The course attempts to familiarize the student with various methods or models of identifying communal needs and resources. It also attempts to provide critical elements to evaluate different models and put them in contact with the different options used by public agencies.

PSIC 6106 Community Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Department It is intended to prepare the future psychologist in the analysis and solution of psychosocial problems affecting the community.

PSIC 6107 Intercultural Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Psychology This seminar aims to highlight the extent to which social psychology can be subject to cultural variations. Social psychology research in different cultures is studied, analyzed comparatively, and the implications of the findings for existing theories are considered. Emphasis is placed on research on Puerto Rican culture, and an attempt is made to replicate at least one foreign study in our culture.

PSIC 6108 Psychology, Society and Health

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: PSIC 6106 Analysis of the socio-economic conditions, organizations, and social visions that affect the health and disease situation in Puerto Rico and other countries in the Americas. The role of the psychologist in relation to this problem.

PSIC 6109 The Group as a Means of Social Intervention

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: PSIC 6105, 6106 The application of group theories to social life to facilitate psychological, social, organizational, institutional, and community change will be studied.

PSIC 6110 Seminar on the Psychological Analysis of Social and Cultural Change in Puerto Rico

Three credits. Three hours of lecture a week.

The seminar will be oriented towards the purpose of gathering pertinent information regarding the educators of change in Puerto Rico, such as: the search for the historical background of Puerto Rican society in its basic outlines: population, emigration and immigration, urban planning, poverty, slums, social stratification, education, housing, employment and unemployment, industrialization and modernization. These issues or indicators of change, among others, will be analyzed on the basis of objective and verifiable information that emerges from the examination of the literature of studies carried out here and abroad and with a psychological emphasis. It will explore how changes in these areas affect interpersonal relationships, the development of human beings, the formation of beliefs and values, and coexistence in Puerto Rico.

PSIC 6115 Analysis of Conflict and Crisis Management Strategies

Three credits. Three hours of lecture per week Conceptual and formal analysis for the management of interpersonal, group and community conflicts.

PSIC 6116 Practice in Conflict and Crisis Management Strategies

No credit.

Prerequisite: Concurrent with PSIC 6115 Supervised Practice in Interventions Aimed at Interpersonal, Group, and Community Conflict Management.

PSIC 6120 Seminar on Community Psychology and Social Policy

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director and instructor The course attempts to examine the content of public policy in the areas of health, education, and social welfare as it applies to community psychology in Puerto Rico. A thorough understanding will allow for effective planning of psychosocial intervention strategies.

PSIC 6131 Community Practice I

Three credits.

The purpose of this practice is to expand the theoretical framework discussed in the Advanced Social Psychology I and Community Psychology courses. It also aims to promote the acquisition of intervention skills in communities, formal groups, organizations, institutions or geographic communities, data collection and other aspects associated with research.

PSIC 6132 Community Practice II

Three credits.

This practice aims to expand the intervention and research skills acquired in Community Practice I.

PSIC 6133 Community Practice III

Three credits.

Prerequisite: PSIC 6132 This internship aims to refine and expand the skills acquired in the Community Practice I and II courses and to offer students the opportunity to acquire new community work skills in a new work scenario.

PSIC 6195 Social Psychology Seminar

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Study of current issues and issues in social psychology and related areas.

PSIC 6201 *Practicum I*

Three credits. One hour of lecture and twenty hours of laboratory per week. Students will dedicate at least 120 hours to practical work in an organization where they apply the concepts and techniques of the social-industrial program. Students will meet one hour a week with the supervising teacher to discuss problems and consult on references to study. As part of the course, each student will prepare a paper that is publishable in a scientific journal.

PSIC 6202 *Practicum II*

Three credits. Three hours of supervision and eight hours of practice per week.

Prerequisite: PSIC 6201 and 6205 Practice in governmental and private organizations with particular attention to the organizational problems of such institutions. The course includes 120 hours of practice, in addition to weekly meetings for supervision.

PSIC 6205 Industrial Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Topics pertinent to the world of work with high social content are covered. Included are the following topics: historical significance of work and needs that are met by work, technology and job satisfaction, formal and informal organization, job analysis, recruitment and selection, introduction to performance evolution and training, as well as termination of employment (layoff, retirement, and exit interviews).

PSIC 6206 Construction of Psychological Tests

Three credits. Two hours of lecture per week. Prerequisite: PSIC 6006

Theory of Constructing Aptitude Tests, Intelligence, Exploitation, personality and interests. Practice in the preliminary development of one of these types of tests.

PSIC 6209 Psychosocial Aspects of Labor Regulations

Three credits.

Prerequisite: Admission to the Critical Analysis of Labor Regulations program in areas such as health, safety, hours, wages, labor unions, and others.

PSIC 6215 Psychosocial Approach to Organizational Conflict

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of psychological and sociological theories of organizational conflict and strategies for their solutions.

PSIC 6216 Psychological Testing Construction Laboratory

A credit. One hour of lab time per week.

Prerequisite: Take simultaneously with PSIC 6206 Laboratory for Question Writing, Item Analysis, Determination of Reliability, Standards, Equivalences, and Validity in Psychological Tests.

PSIC 6218 Psychology and Occupational Health

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6205 or equivalent The Occupational Psychology and Health course explores the workplace with an emphasis on the health, safety, and well-being of the workforce. It emphasizes the interaction of the worker and his or her workplace and its effects on the worker's life in and outside the company. The course explores topics such as: healthy organization, work-family balance and spillover effect, health and productivity, stress and health, violence at work, physiological aspects of illness, safety and accidents, as well as intervention alternatives in work scenarios. As part of the course activities, students will develop a group intervention in an organization identified by them as a contribution to the organization and the quality of life of its members.

PSIC 6225 Psychological Assessment Techniques in Personnel Selection

Three credits. Three hours of lecture a week.

Discussion of the main psychological assessment techniques used in personnel selection. Face-to-face, hybrid and online course.

PSIC 6227 Social Psychology of Work and Production in Contemporary Capitalist Society

Three credits. Three hours of lecture a week.

Analysis of the theories of alienation, communication and organization in relation to the changes in the economy and society, brought about by the contemporary crisis. The perspectives of social psychology in the technological age will be studied.

PSIC 6301 Advanced Developmental Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree in Psychology or counselor's permission Study of the basic principles of human development with emphasis on childhood and adolescence. Critical consideration of recent scientific findings. Special attention is given to the problems and particularities of children and adolescents in Puerto Rico.

PSIC 6302 Advanced Developmental Psychology

Three credits.

Prerequisite: Baccalaureate and with permission of the teacher Based on the study of the principles that govern human development, from conception to the end of adolescence. Subsequent developmental stages will be considered, such as early adulthood, middle adulthood, and the arrival of old age. Parallel to the study of the evolution of the human being during these periods, the psychological circumstances that accompany the attainment of fullness and the descent of life are discussed.

PSIC 6305 Advanced Statistics and Methodological Designs

Three credits. Three hours of lecture a week. Statistical analyses and designs, and the theory thereof.

PSIC 6306 History and Systems of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The course examines the history of psychology, from ideas in the countries of the ancient East to contemporary psychology. An attempt is made to identify the existing historical ties of the latter. Finally, the state of the discipline and its history in Latin America are examined.

PSIC 6311 Teaching Psychology

Three credits. Three hours of lecture a week.

This course focuses on the teaching and assessment of the general psychology course. Innovations in teaching and instructional methods are discussed. The central themes and debates of general psychology, course content, ethics in teaching, and assessment of achievement are discussed.

PSIC 6312 Practice in the Teaching of Introductory Psychology

Three credits. Eight hours of practice per week.

Prerequisite: PSIC 6311 Course designed to provide supervised experiences and skills in teaching psychology. The course includes supervised practice in the different teaching methods.

PSIC 6315 Practice in the Teaching of Advanced Courses in Psychology

Three credits. Twelve hours of supervised practice per week.

Prerequisites: PSIC 6312 and Teacher's Permit Organization and teaching of an advanced undergraduate psychology course under the supervision of a professor. It includes a discussion of the philosophical foundations of teaching and the most recent aspects of the topic to be taught.

PSIC 6318 Human Learning

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The course will broadly cover the verbal memory and verbal behavior of humans. It will include a brief study of the historical background and general methodology; The remainder of the course will consist of the study of various models of memory and/or language interpolation.

PSIC 6327 Use and Application of the Computer to Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission Introduction to the common terminology, principles, and applications of computers to psychological work.

PSIC 6401 Psychological Evaluation I

Three credits. Two hours of lecture per week.

Prerequisite: PSIC 6020, 6405 and 6408.

Critical analysis of the theoretical and practical aspects of psychological assessment by means of the intelligence test. It includes the historical, conceptual and ideological aspects of this mode of evaluation; the Stanford-Binet and Wechsler tests (for children and adults); its uses, scope, limitations, administration, valuation and interpretation.

PSIC 6402 Psychological Evaluation II

Three to four credits. Two hours Prerequisite: PSIC 6401, 6403 Training in the administration and interpretation of various techniques used in personality assessment, such as TAT, Bender-Gestalt, and Draw a Person. It includes supervised practical work, laboratory work, and the submission of written reports.

PSIC 6403 Psychological Assessment Practice I

A credit. Three hours per week of supervision sessions and twelve hours of practice.

Prerequisite: PSIC 6020, 6405, 6408 and be enrolled in PSIC 6501 Supervised experience in administering, assessing, and interpreting intelligence tests, as well as writing psychological reports.

PSIC 6404 Psychological Assessment Practice II

No credit. Four to eight hours of practice.

Prerequisite: PSIC 6401, 6403, and be enrolled in PSIC 6402.

Supervised practice in the administration and interpretation of tests such as TAT, CAT, Bender-Gestalt, Drawing a Person, among others.

PSIC 6405 Theories of Personality and Psychotherapy

Three credits.

Discussion of the basic concepts in personality theory and psychotherapy with particular emphasis on existential and phenomenological approaches. Emphasis is placed on the pertinence and applicability of the concepts and techniques discussed, taking into consideration our diverse social idiosyncrasies and the real situation in which the Puerto Rican psychotherapist renders his or her services.

PSIC 6406 Psychotherapy Practice

No credit. Eight hours of practice per week.

Prerequisite: Enrolled in PSIC 6405.

Supervised practice in individual or group therapy. Practice is an integral part of the PSIC 6405 course.

PSIC 6407 Emergency Clinic and Short-Term Psychotherapy

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission The course proposes the study of a clinical and ethical knowledge that allows, beyond the so-called intervention, a positioning that centrally welcomes the word of the subjects who come to the clinic at a time of intricate conscious and unconscious phenomena that overflow their capacity to manage and tolerance of anguish and encourage them to connect with their crisis and their symptoms as one in which they are able to communicate with their crisis. Not only do they have an impact on external events, but as a production of their own complexity, subjectivity and discourse.

PSIC 6408 Principles of Psychopathology

Three credits. Three hours of lecture a week.

Discussion of various models of psychopathology (biophysical, intrapsychic, phenomenological, behavioral, and sociocultural) with particular emphasis on antecedents, development, and symptom patterns. Psychotherapeutic aspects, when pertinent to diverse patterns of psychopathology and sociocultural idiosyncrasies, are also discussed.

PSIC 6409 Practice in Psychopathology

No credit. Four hours of practice.

Prerequisite: Enrolled in PSIC 6408.

Observation, interviews, preparation of histories, diagnosis and clinical discussion of behavioral disorders. Practice is an integral part of the PSIC 6408 course.

PSIC 6410 Advanced Seminar on Behavior Modification

Three credits. Three hours of lecture per week; Practice (optional) Prerequisite: PSIC 6417
Critical and intensive study of the theoretical framework of behavior modification principles and the therapeutic effectiveness of behavior modification techniques.

PSIC 6416 Group Therapy

Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: Be a student of the graduate program in psychology The course will emphasize the theoretical and practical aspects of group therapy and offer a human laboratory for client and therapist experiences in a group psychotherapy environment.

PSIC 6417 Principles of Behavior Modification

Three credits. Three hours of lecture and four hours of practicum Prerequisite: Be a student of the graduate program in psychology Study of the basic psychological principles that govern human behavior, particularly those derived from the psychology of learning. Great emphasis will be placed on the application of social learning principles to the modification of psychotic, neurotic, and maladjusted behavior in clinical and educational institutions. Special attention will also be given to the critical discussion of recent scientific findings in behavior modification with particular interest in the applicability of these findings to maladjustment problems in Puerto Rico.

PSIC 6418 Childhood Behavioral Disorders

Three credits. Two hours of lecture per week; "Practicum" by agreement Prerequisite: Permission from the Department Directorate Problems of etiology, classification, and management of children who manifest extreme isolation, boundless behavior, strange and chaotic tendencies, and behavior determined by organic disorders. Theoretical frameworks, assessment techniques, and diagnosis are considered. Practice opportunities will be provided. Lectures will be offered by guest consultants.

PSIC 6421 Family Therapy I

Three credits. Two lectures and three labs a week.

Prerequisite: PSIC 6405, 6408 Study of some systems of family therapy, their theoretical models, techniques used, and case analyses. Students are offered the opportunity to live simulated family therapy experiences (laboratory) and to conceptualize about their own experiences within the different family systems that they share personally and professionally.

PSIC 6423 Family Therapy Practice I

Three credits. Three to four hours of practice.

Prerequisite: PSIC 6405, 6408, and 6421 Observation Experiences of Family Therapy Sessions; Opportunity to work with families as a cotherapist offering family therapy.

Participation in Practice Center meetings, case discussions, and supervisory meetings.

PSIC 6431 Clinical Psychology Practice I

No credit. Twelve hours of supervised practice per week.

Supervised practice in clinical observation, interviews, preparation of reports and histories, and participation in case conferences. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6432 Clinical Psychology Practice II

Two credits.

Prerequisite: PSIC 6431 Supervised practice in intellectual and personality functioning assessments, diagnostic interviews, case conference participation, counseling and individual psychotherapy with special focus on short-term problem-solving and crisis intervention. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6433 Clinical Psychology Practice III

Two credits.

Prerequisite: PSIC 6432 Supervised Practice in Group Individual Psychological Functioning Assessments and Individual Psychotherapy. Supervised experiences of individual psychotherapy, psychodiagnosis, and group therapy will be emphasized in this practice. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6434 Clinical Psychology Practice IV

Two credits.

Prerequisite: PSIC 6433 Practice requires 12 hours of work per week in addition to meetings by appointment. It requires twelve hours of work a week, in addition to meetings with the clinical supervisor.

PSIC 6436 Intramural Practice in Clinical Psychology

Three credits.

Prerequisite: Principal's permission.

Supervised practice in psychotherapy (individual, group, couples and/or families) and psychological evaluation. This internship is carried out in the facilities of the University Center for Services and Psychological Studies (CUSEP) during the summer sessions.

PSIC 6437 Introduction to Clinical Practice

Three credits. One hour of lecture, one hour of discussion, and five hours of supervised practice per week.

The clinic is structured around concepts and foundations that provide a basis and contextualize the experiential (practical) experience. In this course, the basic concepts will be presented in a theoretical-practical-therapeutic integration. This will be carried out specifically through the discussion of different aspects: theoretical frameworks, clinical observation, interview styles and processes, clinical conceptualization, therapeutic processes, and clinical contexts.

PSIC 6505 Dream Module

A credit. Three hours of lecture a week.

Prerequisite: Director's Permission The meaning of dreams from the physiological and psychological point of view, Jung's theory of dreams and that of Dr. Efrén Ramírez. Method of dream interpretation designed by Dr. Ramírez, and its usefulness in terms of personal development, as a method of psychotherapy and as a method of group therapy.

PSIC 6506 Colloquium on Topics in Psychology

No credit. One hour of meeting per week.

Lectures, discussion and exchange of ideas between professors of the Department, students and guest lecturers. The student will enroll each semester.

PSIC 6507 The Psychology of Women

Three credits. Three hours of lecture a week.

This course is organized around the question of whether there is such a thing as a female psychology and what its biological and social determinants are. The acquisition of sex roles and their historical determination and cross-cultural relativity are studied. The literature is reviewed in relation to the biological, sexual, cognitive and affective functioning of women. In addition, it studies the development of feminist movements, the socio-political situation of women in industrial society, and the impact of these changes on relations between the sexes, the family, and Puerto Rican society.

PSIC 6510 Seminar on the Family in Puerto Rico

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

Prerequisite: Permission from the Director Analysis and Research of the History and Psychosocial Aspects of the Family in Puerto Rico. The main purpose of the seminar is to promote psychosocial research on the family and its problems.

PSIC 6515 Intelligence, Creativity, and Cognitive Complexity

Three credits. Three hours of lecture a week.

The concepts of intelligence, creativity, and cognitive complexity will be contrasted and the relevance of these concepts for today's Puerto Rican society will be determined.

PSIC 6516 Supervised Reading Course

Three credits.

Prerequisite: Teacher's permission The readings revolve around a topic chosen by the students and the teacher. The student covers the concepts with the teacher's approval and prepares a monograph on the concept of his/her preference.

PSIC 6517 Advanced Psychopharmacology and Neurophysiology of Drug Use and Abuse

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Knowledge of the psychophysiological system and its alteration through the use of chemical substances is deepened. Students will become familiar with the chemical and pharmacological aspects of the substances that are abused, as well as those used in the different treatment modalities (methadone, naltrexone, etc.). Particular attention will be given to the study of human behavior and its interaction with the action of substances on the psychophysiological system.

PSIC 6518 Psychology of the Young

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6301 Study of theories and research that explain typical youth processes, taking into account the cultural variables that contribute to the formulation of such theories and the design of such research. Discussion of the physical, cognitive, social and affective aspects of development, as well as the evolution of the identity and sexuality of the young person. Analysis of family processes, school experience, relationships with peers and the influence they have on development.

PSIC 6525 Psychological Analysis of Power

Three credits. Three hours of lecture a week.

Analysis of the concept of power at the individual level (power traits, power motivation, foci of control), at the group level (leadership, relations between the sexes). Some emphasis will be given to the communal and institutional levels.

PSIC 6526 Spirituality in Psychology

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

Prerequisites: PSCI 3005 or 3003 This graduate-level course examines contemporary conceptualizations and debates surrounding the notion of spirituality in the work of psychology, particularly its integration into therapeutic practice and in the preparation of the helping professional. It reviews the ethical premises for psychology as it integrates spirituality into its research and practice.

PSIC 6527 Fundamentals of Human Sexuality

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director This introductory course aims to offer insight into human sexuality. It includes processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective and in its social dimension. The student will examine some sexual issues in Puerto Rican society.

PSIC 6528 Violence and Complexity

Three credits. Three hours of seminar per week.

The purpose of this course is to contribute to the production of a conceptual framework in which to situate violence as a complex, socially constructed phenomenon. The relationship between psychic life and social life will be studied from the centrality that the signifier of violence has acquired in our contemporaneity. This includes a close examination of the relationships between the history of the constitution and identifications of the subject (subjectivation) and the world we share with others (intersubjectivity) and its relation to violence. The contributions of the knowledge produced by the psychoanalytic discourse for the analysis of violence will be examined and dialogic relations between the psychoanalytic discourse and other contemporary fields of theorization such as poststructuralism, deconstructivism, social constructivism and Lacanian psychoanalysis will be promoted. The contributions of traditional psychology to the subject of violence are critically examined.

PSIC 6529 Review and Critical Analysis of the Psychological Literature in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Have passed a minimum of 9 graduate credits.

Review of research and publications that have been done in Puerto Rico, their theoretical frameworks, methodology and implications to understand the psychological reality of Puerto Ricans. A framework for analysis and critique will be provided.

PSIC 6535 Theoretical Controversies on Human Development: Early Childhood

Three credits.

Different aspects of human development from birth to seven years of age will be examined. The approach is epistemological, emphasizing the basic assumptions of the discipline, the fundamental controversies, and the ideological and philosophical aspects of the theories examined.

**PSIC 6537 Psychopathology of Affective Development in Childhood:
Psychoanalytic Perspective**

Three credits.

Prerequisite: Permission of the director To provide a clinical view of the child's affective development from a psychoanalytic perspective, allowing knowledge of child psychopathology.

PSIC 6545 Program Evaluation and Consulting

Three credits. Three hours of lecture a week.

Introduction to the basic concepts and methods of consulting and program evaluation and the ethical and evaluative controversies surrounding them. Emphasis is placed on developing skills in these areas and applying them in public service programs and private agencies for non-pecuniary purposes.

PSIC 6546 Analysis of Interventions in Organizations: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 or its equivalent, permission of the director or PSIC 6026 Analysis of interventions carried out in public and private organizations in and outside Puerto Rico, in light of the conceptual models that guide them. Different intervention models, their purposes, conceptual frameworks and ethical principles are presented. Analysis of the current applications of these and other models, paying particular attention to the congruence between theory and practice.

PSIC 6555 School Psychology

Three credits. Three hours of discussion a week.

General orientation on school psychology, focusing the discussion on the public education system of Puerto Rico and on the ethical principles of the discipline. It focuses on the various functions that are carried out in professional practice in this area and on the historical and future development of school psychology.

PSIC 6591 Practice in School Psychology I

Three credits. Eleven hours of supervised practice per week.

Prerequisite: PSIC 6555 Supervised practice in providing services in the school setting that includes experiences such as: direct classroom observation, health promotion and prevention, community relations, interventions with academic and discipline problems.

PSIC 6592 School Psychology Practice II

Three credits. Three hours of direct supervision and ten hours of practice per week in the school setting.

Prerequisites: PSIC 6401, 6403, 6555, and 6591 Continuation of Supervised Practice in Providing Psychological Services in a School Setting. The student will gain experience in intervention strategies such as crisis and conflict intervention, management of specific behaviors in groups, interdisciplinary teamwork, psychoeducational and program evaluations. The course is complementary to PSIC 6591.

PSIC 6995 Research Practicum

One to four credits per semester.

Prerequisite: Be enrolled in the graduate program and permission from the professor. The course is aimed at developing the necessary skills for psychological research through their active participation in the development of research projects, under the supervision of a professor. The course can be repeated with credits, without limit with the approval of the research professor.

PSIC 7005 Seminar in School Psychology: The Functions of the School Psychologist

Three credits. Fifteen hours of lecture per week.

Prerequisite: Director's Permission Study of the Clinical Process with Learning and Behavioral Disabilities. Emphasis on the integration of data from case histories, interviews, and psychometric tests.

PSIC 8005 School Psychology Seminar: Professional Problems of School Psychology

Three credits. Three hours of lecture a week.

In-depth examination and analysis of unresolved problems in the area of psychoeducational diagnosis and intervention and behavior modification; Counseling, consulting, and counseling for parents.

PSIC 8007 School Psychology: Mental Health Consulting in Schools

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director, student consortium Consulting as a model of school psychological service. The student will become familiar with and train in various modalities and levels of consulting that will be used as a school psychologist. The research and evaluative aspects of the consultancy will be studied.

PSIC 8018 Contemporary Social Research: Meeting with its Authors

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007, and PSIC 8017 Diverse approaches in social science research by meeting researchers and discussing their research with them.

PSIC 8019 The Social Scientist as a Judicial Expert

Three credits. Three hours of lecture a week.

Prerequisite: Master's degree in psychology or in one of the social sciences Theoretical and practical considerations in the preparation of the social scientist as a judicial expert.

PSIC8028 Psychopharmacology

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

Prerequisites: PSIC6317 or PSIC8027.

Aspects of psychopharmacology and neurophysiology will be discussed in the course. It will include lectures on Anatomy and Physiology of the Nervous System, Synaptic Neurochemistry, Pharmacokinetics and Pharmacodynamics and on the neuropharmacological impact of different drugs on states of consciousness and behavior.

The neurobiological basis of mental disorders, the mechanisms of action of different medications and the strategies used in experimental studies and clinical psychopharmacology will be studied. Anxiolytics and antidepressants, antipsychotic drugs, sedative hypnotics, and narcotics will be discussed. The content will be presented from both a basic science perspective and from a clinical orientation combining lectures and lecture discussions. The course is designed especially for students of the graduate program of Clinical Psychology and for doctoral students with a specialization in Academic-Research Psychology.

PSIC 8105 Psychology and Social Movements

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 The theoretical-practical contributions of psychology to the social movements of the last decades in Puerto Rico are analyzed.

PSIC 8115 Social Psychology of Education

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 or EDUC 6270 Examination of the crises of education in contemporary capitalist society. Critical analysis of the most important theoretical fields for its explanation. The social construction of education and the new subjectivity.

PSIC 8215 Psychology and Law

Three credits.

Analysis of basic concepts common to psychology and law.

PSIC 8216 Employment and Discrimination.

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

Director's Permission Critical Analysis of Discrimination in Employment and Its Consequences.

PSIC 8335 Research Methods in Human Developmental Psychology

A credit. Three hours of lecture a week.

Prerequisite: PSIC 6006, 6007, 6301 and permission Discussion of the most frequently used methods in psychological research on human development. Examination of the central issues of time analysis, changes over life, the contributions of the evolutionary approach, and the relationship between research and theory development.

PSIC 8405 Linking Theory: Critical Analysis and Clinical Application

Three credits. Three hours of lecture a week.

It discusses the basic assumptions of theory based on etiological study. It is compared with other dynamic approaches and clinical applications are derived.

PSIC 8407 Rorschach Technique

Four credits. Three hours of lecture and three hours of supervised practice per week.

Prerequisites: PSIC 6020, 6401 and 6402 Introductory course in the Rorschach psychological assessment technique. It includes the theoretical basis of the latter, the principles of administration, qualification and interpretation. Provide hands-on experience.

PSIC 8409 Psychotherapeutic Research: Process and Outcome

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

Prerequisite: Teacher's permission Formal research on psychotherapy programs with children, adolescents, and adults in various modalities (such as individual, group, couples, and family). Review of research on psychotherapeutic processes and outcomes.

PSIC 8411 Psychoanalytic Seminar Part I: Adult

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Study of Freud's writings, fundamental for the knowledge of subjectivity.

PSIC 8412 Psychoanalytic Seminar Part II: Child

Three credits. Three hours of lecture a week.

Study of the basic texts of the most important psychoanalysts in the field of child psychoanalysis.

PSIC 8415 Analysis and Reflection on the Practice of Clinical Psychology in Puerto Rico

Three credits. Three hours of lecture per week and nine hours of lab. Prerequisite: PSIC 6431, 6432, 6433, and 6434 Advanced Supervised Practice in Psychotherapy (Individual, Group, Couples and/or Family, and/or Psychological Evaluations). It makes it possible to generate new approaches and models of intervention, as well as to refine clinical skills and delve into particular populations or problems. This practice course consists of three credits per semester and can be repeated up to three times.

PSIC 8416 Psychological Evaluation of Children with Disabilities

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3025, 6301, 6401, 6402, 6403 and 6404 Theoretical and Methodological Controversies on the Psychological Evaluation of Children with Disabilities. Examination of the effects of impairment on children's development, their families and the problem of social and educational placement.

PSIC 8420 Seminar: Family Study

Three credits.

Prerequisite: PSIC 6421 Critical Study of the Theoretical and Research Literature on Families and Its Applicability in Puerto Rico. Research techniques will be developed for the study of families in Puerto Rico.

PSIC 8425 Psychotherapy Supervision Seminar

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: 60 graduate credits in clinical psychology or equivalent.

Critical consideration of the theoretical and practical aspects of psychotherapy supervision. Hands-on experience in observation, research, and supervision.

PSIC 8495 Internship in Clinical Psychology

No credits.

Prerequisite: Permission from the chair of the department of psychology or coordinator of the graduate program and PSIC 6431, 6432, 6433, 6434 Supervised Practice in Clinical Psychology up to the accumulation of 2,000 hours of professional experience as the last requirement for the doctoral degree.

PSIC 8505 Psychology and Reason

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007 Analysis of the separation of body and the "software/hardware" fission of work and its consequences on the constitution and development of psychology.

PSIC 8506 Advanced Seminar on Community Psychology: Contemporary Debates

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105; PSIC 6106 Contemporary Debates on Community Psychology and Their Concretion in Research and Intervention. The discussion is framed in community psychology in Puerto Rico.

PSIC 8507 Consulting in the School Context

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6555 Study of the different roles and functions of the consultant in the school context.

In-depth discussion of the basic principles and intervention models in professional psychological consulting. Emphasis on the stages of the consulting relationship and the processes that take place during the intervention.

PSIC 8508 Consulting Practice in the School Context

Zero credits. Ten hours of supervised practice and three hours of supervision.

Prerequisite: PSIC 6555.

Supervised practice in consulting in the school context in which theoretical knowledge is applied and skills of the discipline are developed. The course is complementary to consulting in the school context (PSIC 8507).

PSIC 8515 Biological Approaches to the Study of Psychopathology

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6408, PSIC 6317 or PSIC 8027 Study of biological models that have been proposed to explain various conditions of human psychopathology. Emphasis on critical analysis of research that supports or contradicts these models and the pharmacological interventions that derive from them. Analysis of the most important controversies in the application of these y its impact on the practice of psychology.

PSIC 8516 Psychoeducational Evaluation

Three credits. Three hours of lecture per week and two hours of supervised practice a week.

Prerequisites: PSIC 6401, 6403, and 6555 Analysis of psychological and educational concepts and strategies used in psychoeducational assessment. It includes the conceptualization of what assessment is in the school context, assessments of academic achievement, basic writing skills, reading mathematics, as well as social performance and dynamic cognitive aspects and pedagogical strategies. Integrate, as fundamental aspects of psychoeducational evaluation, modalities of corrective and remedial intervention strategies. Provide for the application of concepts and the development of particular skills that allow psychoeducational evaluations to be carried out.

PSIC 8525 The Game: Reflection, Analysis and Intervention

Three credits. Two hours of lecture per week and two hours of supervised practice per week.

Prerequisite: PSIC 8405, and PSIC 8412 Study of play in children from the psycho-analytic and interactional perspective and its implications in clinical practice with children. Critical examination of other theoretical perspectives and their clinical application. Supervised practice in clinical intervention.

PSIC 8200 Fundamentals of Social Psychology and Current Issues

Three credits. Three hours of lecture a week.

This course studies the theoretical and methodological foundations of social psychology. The course discusses classical and contemporary theories, major in social psychology research, as well as new trends, such as the affective aspects of social behavior. This course is divided into four general units: epistemological and historical background, theorizing the individual in the social context, affective aspects of social dynamics and power structures, and contemporary related fields. In each unit, theoretical and methodological approaches are examined to provide students with the opportunity to develop an understanding of the field as well as research methodology from a social psychological perspective and integrate the social and affective aspects of behavior. Ethical issues related to theory, research, and psychosocial interventions are discussed. This course examines the social and affective processes that affect behavior. Face-to-face course.

PISC 8201 Human Development: The Life Cycle

Three credits. Three hours of lecture a week.

The course proposes an overview of theories and research related to the development of the human subject. The relationship between the physical, cognitive and socio-emotional development of the subject from childhood to old age will be covered. Emphasis will be placed on the theoretical and scientific foundations of developmental psychology. The student will not only have information concerning developmental processes, but also a critical understanding of the processes underlying human development. The course will emphasize the dynamic processes of development and the dialectic between psychological processes and development. Face-to-face course.

PSIC 8202: Psychological Approach to the Study of Cognitive and Affective Processes

Three credits. Three hours of lecture a week.

This course studies the main theoretical models used to explain the human cognitive and affective aspects of behavior. The emergence of cognitive psychology is examined by considering socio-historical transformations. Information processing models, genetic epistemology, historical-cultural perspective, and affective processes are analyzed. Cognitive processes such as attention, sensation, perception, memory, language, and problem-solving are discussed. In particular, it analyzes how affective processes and cultural differences shape cognitive processes and human behavior. Face-to-face course.

PSIC 8203 Models and Techniques of Psychotherapy

Three credits. Three hours of lecture a week.

This course focuses on the exposition of the different theoretical models of psychotherapy, as well as their origins and evolutions. Once the basis of the theoretical models is established, current therapeutic approaches will be examined from a critical point of view, emphasizing the conceptual problems, methodology, and alternatives to deal with such problems. Evidence-based psychotherapeutic approaches used with different populations will also be discussed. Face-to-face course.

PSIC 8204 Personality and Human Diversity

Three credits. Three hours of lecture a week.

This course addresses the categories of personality, subjectivity and subjectivation from a critical and complex approach. It examines the paradigmatic assumptions underlying theories of personality and traditional approaches to the study of the human being. It proposes a conceptual approach that includes debates on the human from the paradigm of complexity, constructivism, psychoanalytic theory and updated foundational psychological premises. It explores the application of this conceptual approach to the human, pertinent in contemporary clinics, as well as particular considerations of the Puerto Rican population and the inescapable sensitivity to differences and cultural and individual diversity necessary in psychological formation. Face-to-face course.

PSIC 8205 Advanced Psychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401 and PSIC Training in the administration and interpretation of various techniques used in personality assessment such as: TAT, Bender Gestalt and Drawing the Person. It includes supervised practical work, laboratory work, and the submission of written reports. Face-to-face course

PSIC 8206 Advanced Psychological Assessment Practice

A credit.

Prerequisites: PSIC 6401 and PSIC 6403 Corequisite PSIC 8205 Intensive practice in the administration and evaluation of the following tests: Thematic Apperception Test (TAT), Apperception Test for Children (CAT), Bender Gestalt Visual-Motor Test, Human Figure Drawing among other tests. To the above are incorporated the tests contained in the Psyc course. 6401; Psychological Assessment I, worked on in the practice of this course, Psyc. 6403. Personality inventories such as the *Personality Assessment Inventory (PAI)*, the *Minnesota Multiphasic Personality Inventory-2 (MMPI-2)* and Rorschach basics are also included. Emphasis is placed on the clinical approach of the responses of the subjects with whom we work, which are part of their discourse and life history. Face-to-face course

PSIC 8300 Advanced Clinical Psychology Practice

A credit. Three hours of supervised practice.

Prerequisites: PSIC 6434 This advanced clinical practice in psychotherapy (individual, group, couples, and/or family, and/or psychological assessments), allows students to increase their face-to-face clinical hours and refine their clinical skills. During this advanced internship, students will also be able to increase exposure to diverse populations and rotate into externship clinical internships. Face-to-face course.

PSIC 8301 Advanced Family and Couples Therapy

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6432 & PSIC 8203 Corequisites: PSIC 8302 This course provides the student with an overview of the basic concepts and fundamentals of family and couples therapy. They will also become familiar with the various systemic theoretical models. The different techniques used by the different theoretical models will be emphasized. In the same way, they will develop group research skills that respond to a family or couple problem. Face-to-face course.

PSIC 8302 Advanced Family and Couples Practice

A credit. Supervised practice.

Prerequisites: PSIC 6432 and PSIC 8203 Corequisites: PSIC 8301 This course is a clinical practice where the student has the opportunity to acquire the advanced clinical skills to work with couples and families from a systemic perspective. During this clinical practice, the student will have interventions with clinical cases using one or more systemic theoretical

models. This practice should be taken simultaneously with the theoretical course of advanced therapy for families and couples. Face-to-face course.

PSIC 8303 Research Practice

A credit.

The goal of this course is to foster the research experience in students. These will join a faculty member's project to acquire and refine research skills. They will be working under the supervision of a mentor/researcher. Students are required to attend one hour per week of research under the mentorship of their supervisor. Each supervisor's research project will have a brief description of their research. This course can be taken more than once to continue with a research project. In addition, their respective research supervisors will add additional references to the course. Face-to-face course.

PSIC 8304 Clinical Supervision Seminar

A credit.

Prerequisite: PSIC 6433 This course provides the student with an overview of clinical supervision and the different approaches and models of supervision applied to clinical psychology. The student is exposed to the development of supervision as a fundamental part of the training of a psychologist. The student will be able to appreciate different conceptualizations of clinical supervision according to each theoretical model and its particular objectives, approaches, and strategies. In addition, you will learn the difference between supervision and consulting. In addition, the student will have the opportunity to create and develop instruments to measure variables that should be present in each psychotherapeutic model. There will be integration in theory and research in the search for research publications on psychotherapy and supervision. Face-to-face course. **Mailing**

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763-5499

Phone extensions: (787) 764-0000, extensions 87543, 87546, 87548

Portal: <https://sociales.uprrp.edu/psicologia/>

DEGREE: Doctor of Philosophy with a specialty in Psychology Area of Emphasis in Clinical Psychology

TEACHERS:

Cruz Bermúdez, Nelson D., PhD, Brandeis University, 2007, Assistant Professor.

Research topics: Neuroscience of drug addiction and mental disorders; neuroeducation.

Dávila Marrero, Elixmahir, PhD, University of Puerto Rico, 2005, Assistant Professor.

Research topics: Neuropsychological assessment and neurocognitive rehabilitation of neurodegenerative diseases and TBI. Use of video games as a cognitive rehabilitation tool with children and adolescents. Alternative education as a current educational strategy. Standardization of psychological testing for the Puerto Rican population.

Espada Brignoni, Teófilo, PhD, University of Puerto Rico, 2015. Research topics: Culture and subjectivity, Social movements, Empathy, Attributions and discourses in everyday life, Processes of subjectivation, Art and community intervention, Psychology and literature, Music and society.

Galarza García, Laura, PhD, Rice University, 2000, Professor. Research Topics: Industrial-Organizational Psychology; Comparative and International I/O Psychology; Aerospace Psychology; strategy and organizational change; Selection, development and management of individual and organizational performance; Work engagement.

García Ramos, Tania, PhD, Universidad Complutense de Madrid, 1995, Professor. Research Topics: Industrial Organizational Psychology; Psychology of work and organizations; Work and subjectivity; Theorizing around work; research methodology; Epistemology of complexity.

Gómez Escudero, María de los Ángeles, PhD, Université de Paris V, 1991, Professor. Research topics: Parenting and filiation; the body in speeches; Problems of Psychopathology, Psychoanalytic Clinic.

Jiménez Torres, Aida, PhD, University of Puerto Rico, 1993. Associate Professor.

Research Topics: Family and Couples: Attachment: Multiculturalism and Psychotherapy.

Martínez Mejías, Sylvia, PhD, University of Puerto Rico, 1998, Professor. Research topics: Studies in affective bonding and attachment theory; Court expertise in custody and special education cases; Evaluation in early intervention and developmental deficiencies.

Méndez Castillo, Milagros, PhD , Fordham University, 1993, Associate Professor. Research topics: Sexuality in adolescents, Violence in schools, Health psychology, Teaching psychology.

Miranda Gierbolini, Dolores, PhD, Temple University, 1987, Professor. Research topics: Development of sustainable communities, Social movements, Social policy, Political subjectivations, critical citizenship and social change, The human in the ecological complex, The hidden faces of violence.

Morales Arandes, Edgardo, Ed.D, Boston University, 1986, Associate Professor. Research topics: Language and metaphor as models for the construction of socio-organizational and personal realities; participation and democracy at work; relational constructionism; constructionist approaches to psychotherapy; dialogic and collaborative practices; evidence-based psychotherapy; qualitative research.

Nina Estrella, Ruth V., PhD, National Autonomous University of Mexico, 1991, Professor. Research topics: Interpersonal communication, family, couple relationships and sexuality and adolescence.

Ruiz Alfaro, Frances, PhD, University of Puerto Rico, 2014. Assistant Professor. Research topics: Affective bonding; Discourse and Literature, Subjectivity; Autism Spectrum Disorder Evaluation.

Santiago Estrada, Sara, PhD , University of Puerto Rico, 2013. Associate Professor. Research Topics: Transformations at Work; Study of subjectivities in work scenarios, educational organizational scenarios; Change in organizations.

Tirado Santiago, Giovanni, PhD, McGill University, 2006, Associate Professor. Research topics: Neural plasticity; biopsychology of learning and memory; Neuroimaging of cognitive functions in major depression.

Vale Nieves, Otomie, PhD, University of Puerto Rico, 1993, Professor. Research Topics: Technology and Learning; development, subjectivity and historical context; critical psychology; language and subjectivity; construction of the youth, technology and gender.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Possesses, or is in the process of completing no later than the summer of the year in which you intend to commence graduate studies, a bachelor's or bachelor's degree from an accredited institution or university.
2. Have a general academic index of not less than 3.00 points (or its equivalent in the grading system of the university of origin) or a general academic index (baccalaureate and master's degree) of no less than 3.00 points if you have a master's degree.
3. Academic index of no less than 3.00 points in: (a) General or Introductory Psychology; (b) Social Psychology; (c) Elements of Statistical Reasoning; (d) Psychological Research Methodology.
4. Be fluent in Spanish and English.
5. Attend an interview.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself* platform.
2. Two official transcripts.
3. Provide a *resume*.
4. Write an essay.

Other Requirements (for those candidates who qualify)

1. Group interview to be scheduled

PROGRAM OF STUDY:

Code	Requirements	Credits
	<i>Courses required for the Master's degree in Psychology with a specialty in one of the four areas</i>	44
Doctoral Level Core Courses		21
PSIC 8200	Advanced Social Psychology	3
PSIC 6305	Advanced Statistics and Methodological Designs	3
PSIC 6317 A	Advanced Physiological Psychology	3
PSIC 8202	Psychological Approach to the Study of Cognitive Processes or The Sociocultural Study of the Mind	3
PSIC 8000	Philosophical Foundations of Psychology	3
PSIC 8017	Seminar on Multiple Perspectives in Research II	3
PSIC 8201	Human Development: The Life Cycle	3

Code	Requirements	Credits
Area of Emphasis in Clinical Psychology		17
PSIC 8495	Internship in Clinical Psychology (2,000 hours. Only for Clinical Psychology students)	0
Doctoral Candidacy Examination		0
Doctoral dissertation		0
PSIC 8001	Dissertation Seminar	0
PSIC 6008	Dissertation Work	0
Total Credits		82

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PSIC 8200 Fundamentals of Social Psychology and Current Issues

Three credits. Three hours of lecture a week.

This course studies the theoretical and methodological foundations of social psychology. The course discusses classical and contemporary theories, major in social psychology research, as well as new trends, such as the affective aspects of social behavior. This course is divided into four general units: epistemological and historical background, theorizing the individual in the social context, affective aspects of social dynamics and power structures, and contemporary related fields. In each unit, theoretical and methodological approaches are examined to provide students with the opportunity to develop an understanding of the field as well as research methodology from a social psychological perspective and integrate the social and affective aspects of behavior. Ethical issues related to theory, research, and psychosocial interventions are discussed. This course examines the social and affective processes that affect behavior. Face-to-face course.

PSIC 6305 Advanced Statistics and Methodological Designs

Three credits. Three hours of lecture a week. Statistical analyses and designs, and the theory thereof.

PSIC 6317 Advanced Physiological Psychology

Three credits. Three hours of lecture a week.

The course emphasizes a study of the relationship between the physiological system of an organism y conduct. Special attention is paid to the functioning of the central nervous system y its influence on behavior.

PSIC 8202: Psychological Approach to the Study of Cognitive and Affective Processes

Three credits. Three hours of lecture a week.

This course studies the main theoretical models used to explain the human cognitive and affective aspects of behavior. The emergence of cognitive psychology is examined by considering socio-historical transformations. Information processing models, genetic epistemology, historical-cultural perspective, and affective processes are analyzed. Cognitive processes such as attention, sensation, perception, memory, language, and problem-solving are discussed. In particular, it analyzes how affective processes and cultural differences shape cognitive processes and human behavior.

PSIC 8000 Philosophical Foundations of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Changes in the Paradigms of Science and Their Consequences in Psychology.

PSIC 8017 Seminar on Multiple Perspectives in Research II

Three credits. Three hours of lecture a week.

Prerequisite PSIC 6007 Examination of the different theoretical fields in psychology and their research. Analysis of the most commonly used assumptions, research strategies, methods and techniques.

PISC 8201 Human Development: The Life Cycle

Three credits. Three hours of lecture a week.

The course proposes an overview of theories and research related to the development of the human subject. The relationship between the physical, cognitive and socio-emotional development of the subject from childhood to old age will be covered. Emphasis will be placed on the theoretical and scientific foundations of developmental psychology. The student will not only have information concerning developmental processes, but also a critical understanding of the processes underlying human development. The course will emphasize the dynamic processes of development and the dialectic between psychological processes and development. Face-to-face course.

PSIC 8495 Internship in Clinical Psychology

No credits.

Prerequisite: Permission from the chair of the department of psychology or coordinator of the graduate program and PSIC 6431, 6432, 6433, 6434 Supervised Practice in Clinical Psychology up to the accumulation of 2,000 hours of professional experience as the last requirement for the doctoral degree.

PSIC 8001 Dissertation Seminar

No credit. Three hours of discussion a week.

Prerequisite: Master's degree or PSIC 6007. Permission of the director and/or coordinator of the graduate program The dissertation is original research that demonstrates the student's capabilities as an independent researcher. During his/her dissertation seminar, the student

will choose his/her research topic and problem, review the literature (relevant theoretical and empirical findings) and elaborate the research design or action plan. You will submit a formal proposal to the dissertation committee for approval.

PSIC 6008 Thesis Work

No credits. Meeting by agreement.

Prerequisite: PSIC 6010 The course is designed for those students who need guidance and advice from their thesis advisors in relation to the difficulties encountered in the different phases of the thesis research work and in the preparation and writing of the thesis. The student will enroll in the course each semester in which he/she is carrying out his/her thesis work.

OTHER COURSE DESCRIPTIONS:

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, 3005, 3006 Introduction to the theory and production of life histories for psychosocial analysis. The theoretical presuppositions, the salient methodological themes, 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 socio-cultural 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 Overview of the Development of Psychiatric Knowledge and Its Relationship to Institutional Practices.

PSIC 5007 Psychology of Prevention

Three credits. Three hours of lecture a week.

Prerequisite: Undergraduate students must be in their fourth year and 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 areas 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 sign theory, of the genealogy and structure of linguistic semiosis, of the semiotics of text, of nonverbal communication, and of aesthetics and visual communication. It explores the relationship between semiotics and psychology.

PSIC 5009 Psychology of Cinema

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3003 or 3005. It studies individual and collective ways of life and aspirations, the search for meaning, and acceptance or resistance to modes of social ordering.

PSIC 5015 Introduction to Freud's Seminal Texts: A Critical Reading

Three credits. Three hours of lecture a week.

Prerequisite: 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.

PSIC 6005 Theories of Personality

Three credits.

Study of theories on the structure, dynamics and development of personality, emphasizing contemporary approaches. Critical examination of problems, theories, and research that help clarify the role of motivation in personality.

PSIC 6006 Statistics Applied to Psychology

Three credits.

Statistical methods and their applications in psychological research. Data collection, organization, and analysis; frequency distribution; measures of central tendency, variation, asymmetry, and kurtosis; theoretical, binomial, normal, and Poisson distributions; sampling, sampling distribution, hypothesis testing for large and small samples; point-based and interval-based estimates.

PSIC 6007 Seminar: Methods of Psychological Research

Three credits. Three hours of lecture a week.

Discussion of the basic methods of research in the field of psychology, with examples of the most frequently used techniques. Discussion of topics such as controls in psychological research, the concept of explanation and prediction, the practicalities of different research problems, the selection of areas, methods, and topics in psychological research.

PSIC 6009 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The purpose of this course is to give the student a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, physiological sensation and perception, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area

PSIC 6010 Thesis Seminar

Three credits.

Prerequisite: PSIC 6007 Seeks to hone the creative and critical capacities of participants through the cultivation of dialogue and scientific exposition, both oral and written. It requires the preparation of candidates for the critical examination before the faculty panel and fellow students.

PSIC 6015 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

The purpose of this course is to give a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, sensation and perception, physiological, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area.

PSIC 6020 Proseminar in General and Applied Psychology: Principles of Psychological Measurement

A credit. Sixteen lecture hours per semester.

This module aims to expose the student to the basic principles of psychological assessment in its broadest sense. The emphasis will be on the discussion of the concepts of validity, reliability, normalization and standardization, among others.

PSIC 6025 Psychosocial Approach to the Study of Organizational Behavior

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program The following topics are covered relatively quickly: organizational design, motivation, satisfaction, communication, conflict, and others. It delves into the discussion of some methods that have been used to try to facilitate change in organizations. It critically evaluates current administrative practice and tries to identify and question the ideology or set of values that informs it. It illustrates the negative consequences of such an ideology and raises the possibility that the tendency of human beings to unilaterally control their situation leads precisely to organizational ineffectiveness. We are invited to invent and explore models of control that lead to effectiveness.

PSIC 6026 Psychological Approach to Development and Change in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 Explores various models of producing information pertinent to organizational development and change. It is hoped that these models will be compared and evaluated so that the student will become familiar with them and feel able to begin to explore the application of some of them.

PSIC 6030 Proseminar in General and Applied Psychology: Ethical Issues in Psychology

A credit. Sixteen lecture hours per semester.

The course will familiarize the student with the problems and considerations to be taken in the construction, development and application of an ethical system for the profession, the basic premises, notions and ethical implications of using various models of man will be analyzed as illustrated with the various psychological paradigms. The discussion of cases, situations and paradoxes in the practice of professional psychology will be used.

PSIC 6040 Proseminar in General and Applied Psychology: Principles of Supervision

A credit. Sixteen lecture hours per semester.

Some of the most relevant theories on management and supervision and important aspects of supervision such as objectives, work planning, control, coordination and evaluation will be discussed. The unit will be conducted mainly through lectures, case discussions, and simulation of roles and real situations. Face-to-face, hybrid and online course.

PSIC 6050 Proseminar in General and Applied Psychology: Principles of Consulting

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with consulting and counseling service models in order to know and apply the basic principles of these models to situations that require the advice of a psychologist.

PSIC 6060 Proseminar in General and Applied Psychology: Evaluation of Programs and Services

A credit. Sixteen lecture hours per semester.

This module invites you to review the existing literature on evaluation techniques and strategies in different contexts: government agencies, educational programs, community action programs, and services of a preventive or corrective nature in general.

PSIC 6070 Proseminar in General and Applied Psychology: Puerto Rican Society and Culture

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with the effect of variables resulting from Puerto Rican society and culture on individual and group behavior. Emphasis is placed on the analysis of situations that require the intervention of the clinical psychologist in the light of these variables.

PSIC 6080 Proseminar in General and Applied Psychology: Employee Evaluation

A credit. One hour of lecture per week.

Study of employee evaluation as a system: its methods and techniques. Face-to-face, hybrid and online course.

PSIC 6090 Proseminar in General and Applied Psychology: Identification of Needs and Resources

A credit. One hour of lecture per week and one hour of laboratory time per week. The course attempts to familiarize the student with various methods or models of identifying communal needs and resources. It also attempts to provide critical elements to evaluate different models and put them in contact with the different options used by public agencies.

PSIC 6105 Advanced Social Psychology

Three credits. Three hours of lecture a week.

The course is organized around the problem of the social construction of reality. An attempt is made to develop both a theoretical and methodological framework for the study of it. For this purpose, several theories are studied, such as ethnomethodology, symbolic interactionism, role theory; and it will delve into areas such as deviance and social control, attitudes, attribution, social comparison, social movements, and ideology. An effort will be made to use Puerto Rican literature to illustrate and understand the social construction of reality.

PSIC 6106 Community Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Department It is intended to prepare the future psychologist in the analysis and solution of psychosocial problems affecting the community.

PSIC 6107 Intercultural Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Psychology This seminar aims to highlight the extent to which social psychology can be subject to cultural variations. Social psychology research in different cultures is studied, analyzed comparatively, and the implications of the findings for existing theories are considered. Emphasis is placed on research on Puerto Rican culture, and an attempt is made to replicate at least one foreign study in our culture.

PSIC 6108 Psychology, Society and Health

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: PSIC 6106 Analysis of the socio-economic conditions, organizations, and social visions that affect the health and disease situation in Puerto Rico and other countries in the Americas. The role of the psychologist in relation to this problem.

PSIC 6109 The Group as a Means of Social Intervention

Three credits. Two hours of lecture and three hours of laboratory work per week.

Prerequisite: PSIC 6105, 6106 The application of group theories to social life to facilitate psychological, social, organizational, institutional, and community change will be studied.

PSIC 6110 Seminar on the Psychological Analysis of Social and Cultural Change in Puerto Rico

Three credits. Three hours of lecture a week.

The seminar will be oriented towards the purpose of gathering pertinent information regarding the educators of change in Puerto Rico, such as: the search for the historical background of Puerto Rican society in its basic outlines: population, emigration and immigration, urban planning, poverty, slums, social stratification, education, housing, employment and unemployment, industrialization and modernization. These issues or indicators of change, among others, will be analyzed on the basis of objective and verifiable information that emerges from the examination of the literature of studies carried out here and abroad and with a psychological emphasis. It will explore how changes in these areas affect interpersonal relationships, the development of human beings, the formation of beliefs and values, and coexistence in Puerto Rico.

PSIC 6115 Analysis of Conflict and Crisis Management Strategies

Three credits. Three hours of lecture per week Conceptual and formal analysis for the management of interpersonal, group and community conflicts.

PSIC 6116 Practice in Conflict and Crisis Management Strategies

No credit.

Prerequisite: Concurrent with PSIC 6115 Supervised Practice in Interventions Aimed at Interpersonal, Group, and Community Conflict Management.

PSIC 6120 Seminar on Community Psychology and Social Policy

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director and instructor The course attempts to examine the content of public policy in the areas of health, education, and social welfare as it applies to community psychology in Puerto Rico. A thorough understanding will allow for effective planning of psychosocial intervention strategies.

PSIC 6131 Community Practice I

Three credits.

The purpose of this practice is to expand the theoretical framework discussed in the Advanced Social Psychology I and Community Psychology courses. It also aims to promote the acquisition of intervention skills in communities, formal groups, organizations, institutions or geographic communities, data collection and other aspects associated with research.

PSIC 6132 Community Practice II

Three credits.

This practice aims to expand the intervention and research skills acquired in Community Practice I.

PSIC 6133 Community Practice III

Three credits.

Prerequisite: PSIC 6132 This internship aims to refine and expand the skills acquired in the Community Practice I and II courses and to offer students the opportunity to acquire new community work skills in a new work scenario.

PSIC 6195 Social Psychology Seminar

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Study of current issues and issues in social psychology and related areas.

PSIC 6201 *Practicum I*

Three credits. One hour of lecture and twenty hours of laboratory per week. Students will dedicate at least 120 hours to practical work in an organization where they apply the concepts and techniques of the social-industrial program. Students will meet one hour a week with the supervising teacher to discuss problems and consult on references to study. As part of the course, each student will prepare a paper that is publishable in a scientific journal.

PSIC 6202 *Practicum I I*

Three credits. Three hours of supervision and eight hours of practice per week. Prerequisite: PSIC 6201 and 6205 Practice in governmental and private organizations with particular attention to the organizational problems of such institutions. The course includes 120 hours of practice, in addition to weekly meetings for supervision.

PSIC 6205 Industrial Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Topics pertinent to the world of work with high social content are covered. Included are the following topics: historical significance of work and needs that are met by work, technology and job satisfaction, formal and informal organization, job analysis, recruitment and selection, introduction to performance evolution and training, as well as termination of employment (layoff, retirement, and exit interviews).

PSIC 6206 Construction of Psychological Tests

Three credits. Two hours of lecture per week. Prerequisite: PSIC 6006

Theory of Constructing Aptitude Tests, Intelligence, Exploitation, personality and interests. Practice in the preliminary development of one of these types of tests.

PSIC 6209 Psychosocial Aspects of Labor Regulations

Three credits.

Prerequisite: Admission to the Critical Analysis of Labor Regulations program in areas such as health, safety, hours, wages, labor unions, and others.

PSIC 6215 Psychosocial Approach to Organizational Conflict

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of psychological and sociological theories of organizational conflict and strategies for their solutions.

PSIC 6216 Psychological Testing Construction Laboratory

A credit. One hour of lab time per week.

Prerequisite: Take simultaneously with PSIC 6206 Laboratory for Question Writing, Item Analysis, Determination of Reliability, Standards, Equivalences, and Validity in Psychological Tests.

PSIC 6218 Psychology and Occupational Health

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6205 or equivalent The Occupational Psychology and Health course explores the workplace with an emphasis on the health, safety, and well-being of the workforce. It emphasizes the interaction of the worker and his or her workplace and its effects on the worker's life in and outside the company. The course explores topics such as: healthy organization, work-family balance and spillover effect, health and productivity, stress and health, violence at work, physiological aspects of illness, safety and accidents, as well as intervention alternatives in work scenarios. As part of the course activities, students will develop a group intervention in an organization identified by them as a contribution to the organization and the quality of life of its members.

PSIC 6225 Psychological Assessment Techniques in Personnel Selection

Three credits. Three hours of lecture a week.

Discussion of the main psychological assessment techniques used in personnel selection. Face-to-face, hybrid and online course.

PSIC 6227 Social Psychology of Work and Production in Contemporary Capitalist Society

Three credits. Three hours of lecture a week.

Analysis of the theories of alienation, communication and organization in relation to the changes in the economy and society, brought about by the contemporary crisis. The perspectives of social psychology in the technological age will be studied.

PSIC 6301 Advanced Developmental Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree in Psychology or counselor's permission Study of the basic principles of human development with emphasis on childhood and adolescence. Critical consideration of recent scientific findings. Special attention is given to the problems and particularities of children and adolescents in Puerto Rico.

PSIC 6302 Advanced Developmental Psychology

Three credits.

Prerequisite: Baccalaureate and with permission of the teacher Based on the study of the principles that govern human development, from conception to the end of adolescence. Subsequent developmental stages will be considered, such as early adulthood, middle adulthood, and the arrival of old age. Parallel to the study of the evolution of the human being during these periods, the psychological circumstances that accompany the attainment of fullness and the descent of life are discussed.

PSIC 6306 History and Systems of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The course examines the history of psychology, from ideas in the countries of the ancient East to contemporary psychology. An attempt is made to identify the existing historical ties of the latter. Finally, the state of the discipline and its history in Latin America are examined.

PSIC 6311 Teaching Psychology

Three credits. Three hours of lecture a week.

This course focuses on the teaching and assessment of the general psychology course. Innovations in teaching and instructional methods are discussed. The central themes and debates of general psychology, course content, ethics in teaching, and assessment of achievement are discussed.

PSIC 6312 Practice in the Teaching of Introductory Psychology

Three credits. Eight hours of practice per week.

Prerequisite: PSIC 6311 Course designed to provide supervised experiences and skills in teaching psychology. The course includes supervised practice in the different teaching methods.

PSIC 6315 Practice in the Teaching of Advanced Courses in Psychology

Three credits. Twelve hours of supervised practice per week.

Prerequisites: PSIC 6312 and Teacher's Permit Organization and teaching of an advanced undergraduate psychology course under the supervision of a professor. It includes a discussion of the philosophical foundations of teaching and the most recent aspects of the topic to be taught.

PSIC 6318 Human Learning

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The course will broadly cover the verbal memory and verbal behavior of humans. It will include a brief study of the historical background and general methodology; The remainder of the course will consist of the study of various models of memory and/or language interpolation.

PSIC 6325 Psychological Approach to the Study of Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Basic theories about the relationship between mental events and human behavior and effectiveness. The importance of cognitive processes in psychological work in Puerto Rico is emphasized.

PSIC 6327 Use and Application of the Computer to Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission Introduction to the common terminology, principles, and applications of computers to psychological work.

PSIC 6401 Psychological Evaluation I

Three credits. Two hours of lecture per week.

Prerequisite: PSIC 6020, 6405 and 6408.

Critical analysis of the theoretical and practical aspects of psychological assessment by means of the intelligence test. It includes the historical, conceptual and ideological aspects of this mode of evaluation; the Stanford-Binet and Wechsler tests (for children and adults); its uses, scope, limitations, administration, valuation and interpretation.

PSIC 6402 Psychological Evaluation II

Three to four credits. Two hours Prerequisite: PSIC 6401, 6403 Training in the administration and interpretation of various techniques used in personality assessment, such as TAT, Bender-Gestalt, and Draw a Person. It includes supervised practical work, laboratory work, and the submission of written reports.

PSIC 6403 Psychological Assessment Practice I

A credit. Three hours per week of supervision sessions and twelve hours of practice. Prerequisite: PSIC 6020, 6405, 6408 and be enrolled in PSIC 6501 Supervised experience in administering, assessing, and interpreting intelligence tests, as well as writing psychological reports.

PSIC 6404 Psychological Assessment Practice II

No credit. Four to eight hours of practice.

Prerequisite: PSIC 6401, 6403, and be enrolled in PSIC 6402.

Supervised practice in the administration and interpretation of tests such as TAT, CAT, Bender-Gestalt, Drawing a Person, among others.

PSIC 6405 Theories of Personality and Psychotherapy

Three credits.

Discussion of the basic concepts in personality theory and psychotherapy with particular emphasis on existential and phenomenological approaches. Emphasis is placed on the pertinence and applicability of the concepts and techniques discussed, taking into consideration our diverse social idiosyncrasies and the real situation in which the Puerto Rican psychotherapist renders his or her services.

PSIC 6406 Psychotherapy Practice

No credit. Eight hours of practice per week.

Prerequisite: Enrolled in PSIC 6405.

Supervised practice in individual or group therapy. Practice is an integral part of the PSIC 6405 course.

PSIC 6407 Emergency Clinic and Short-Term Psychotherapy

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission The course proposes the study of a clinical and ethical knowledge that allows, beyond the so-called intervention, a positioning that centrally welcomes the word of the subjects who come to the clinic at a time of intricate conscious and unconscious phenomena that overflow their capacity to manage and tolerance of anguish and encourage them to connect with their crisis and their symptoms as one in which they are able to communicate with their crisis. Not only do they have an impact on external events, but as a production of their own complexity, subjectivity and discourse.

PSIC 6408 Principles of Psychopathology

Three credits. Three hours of lecture a week.

Discussion of various models of psychopathology (biophysical, intrapsychic, phenomenological, behavioral, and sociocultural) with particular emphasis on antecedents, development, and patterns of symptoms. Psychotherapeutic aspects, when pertinent to diverse patterns of psychopathology and sociocultural idiosyncrasies, are also discussed.

PSIC 6409 Practice in Psychopathology

No credit. Four hours of practice.

Prerequisite: Enrolled in PSIC 6408.

Observation, interviews, preparation of histories, diagnosis and clinical discussion of behavioral disorders. Practice is an integral part of the PSIC 6408 course.

PSIC 6410 Advanced Seminar on Behavior Modification

Three credits. Three hours of lecture per week; Practice (optional) Prerequisite: PSIC 6417
Critical and intensive study of the theoretical framework of behavior modification principles and the therapeutic effectiveness of behavior modification techniques.

PSIC 6416 Group Therapy

Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: Be a student of the graduate program in psychology The course will emphasize the theoretical and practical aspects of group therapy and offer a human laboratory for client and therapist experiences in a group psychotherapy environment.

PSIC 6417 Principles of Behavior Modification

Three credits. Three hours of lecture and four hours of practicum Prerequisite: Be a student of the graduate program in psychology Study of the basic psychological principles that govern human behavior, particularly those derived from the psychology of learning. Great emphasis will be placed on the application of social learning principles to the modification of psychotic, neurotic, and maladjusted behavior in clinical and educational institutions. Special attention will also be given to the critical discussion of recent scientific findings in behavior modification with particular interest in the applicability of these findings to maladjustment problems in Puerto Rico.

PSIC 6418 Childhood Behavioral Disorders

Three credits. Two hours of lecture per week; "Practicum" by agreement Prerequisite: Permission from the Department Directorate Problems of etiology, classification, and management of children who manifest extreme isolation, boundless behavior, strange and chaotic tendencies, and behavior determined by organic disorders. Theoretical frameworks, assessment techniques, and diagnosis are considered. Practice opportunities will be provided. Lectures will be offered by guest consultants.

PSIC 6421 Family Therapy I

Three credits. Two lectures and three labs a week.

Prerequisite: PSIC 6405, 6408 Study of some systems of family therapy, their theoretical models, techniques used, and case analyses. Students are offered the opportunity to live simulated family therapy experiences (laboratory) and to conceptualize about their own experiences within the different family systems that they share personally and professionally.

PSIC 6423 Family Therapy Practice I

Three credits. Three to four hours of practice.

Prerequisite: PSIC 6405, 6408, and 6421 Observation Experiences of Family Therapy Sessions; Opportunity to work with families as a cotherapist offering family therapy.

Participation in Practice Center meetings, case discussions, and supervisory meetings.

PSIC 6431 Clinical Psychology Practice I

No credit. Twelve hours of supervised practice per week.

Supervised practice in clinical observation, interviews, preparation of reports and histories, and participation in case conferences. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6432 Clinical Psychology Practice II

Two credits.

Prerequisite: PSIC 6431 Supervised practice in intellectual and personality functioning assessments, diagnostic interviews, case conference participation, counseling and individual psychotherapy with special focus on short-term problem-solving and crisis intervention. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6433 Clinical Psychology Practice III

Two credits.

Prerequisite: PSIC 6432 Supervised Practice in Group Individual Psychological Functioning Assessments and Individual Psychotherapy. Supervised experiences of individual psychotherapy, psychodiagnosis, and group therapy will be emphasized in this practice. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6434 Clinical Psychology Practice IV

Two credits.

Prerequisite: PSIC 6433 Practice requires 12 hours of work per week in addition to meetings by appointment. It requires twelve hours of work a week, in addition to meetings with the clinical supervisor.

PSIC 6436 Intramural Practice in Clinical Psychology

Three credits.

Prerequisite: Principal's permission.

Supervised practice in psychotherapy (individual, group, couples and/or families) and psychological evaluation. This internship is carried out in the facilities of the University Center for Services and Psychological Studies (CUSEP) during the summer sessions.

PSIC 6437 Introduction to Clinical Practice

Three credits. One hour of lecture, one hour of discussion, and five hours of supervised practice per week.

The clinic is structured around concepts and foundations that provide a basis and contextualize the experiential (practical) experience. In this course, the basic concepts will be presented in a theoretical-practical-therapeutic integration. This will be carried out specifically through the discussion of different aspects: theoretical frameworks, clinical observation, interview styles and processes, clinical conceptualization, therapeutic processes, and clinical contexts.

PSIC 6505 Dream Module

A credit. Three hours of lecture a week.

Prerequisite: Director's Permission The meaning of dreams from the physiological and psychological point of view, Jung's theory of dreams and that of Dr. Efrén Ramírez. Method of dream interpretation designed by Dr. Ramírez, and its usefulness in terms of personal development, as a method of psychotherapy and as a method of group therapy.

PSIC 6506 Colloquium on Topics in Psychology

No credit. One hour of meeting per week.

Lectures, discussion and exchange of ideas between professors of the Department, students and guest lecturers. The student will enroll each semester.

PSIC 6507 The Psychology of Women

Three credits. Three hours of lecture a week.

This course is organized around the question of whether there is such a thing as a female psychology and what its biological and social determinants are. The acquisition of sex roles and their historical determination and cross-cultural relativity are studied. The literature is reviewed in relation to the biological, sexual, cognitive and affective functioning of women. In addition, it studies the development of feminist movements, the socio-political situation of women in industrial society, and the impact of these changes on relations between the sexes, the family, and Puerto Rican society.

PSIC 6510 Seminar on the Family in Puerto Rico

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

Prerequisite: Permission from the Director Analysis and Research of the History and Psychosocial Aspects of the Family in Puerto Rico. The main purpose of the seminar is to promote psychosocial research on the family and its problems.

PSIC 6515 Intelligence, Creativity, and Cognitive Complexity

Three credits. Three hours of lecture a week.

The concepts of intelligence, creativity, and cognitive complexity will be contrasted and the relevance of these concepts for today's Puerto Rican society will be determined.

PSIC 6516 Supervised Reading Course

Three credits.

Prerequisite: Teacher's permission The readings revolve around a topic chosen by the students and the teacher. The student covers the concepts with the teacher's approval and prepares a monograph on the concept of his/her preference.

PSIC 6517 Advanced Psychopharmacology and Neurophysiology of Drug Use and Abuse

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Knowledge of the psychophysiological system and its alteration through the use of chemical substances is deepened. Students will become familiar with the chemical and pharmacological aspects of the substances that are abused, as well as those used in the different treatment modalities (methadone, naltrexone, etc.). Particular attention will be given to the study of human behavior and its interaction with the action of substances on the psychophysiological system.

PSIC 6518 Psychology of the Young

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6301 Study of theories and research that explain typical youth processes, taking into account the cultural variables that contribute to the formulation of such theories and the design of such research. Discussion of the physical, cognitive, social and affective aspects of development, as well as the evolution of the identity and sexuality of the young person. Analysis of family processes, school experience, relationships with peers and the influence they have on development.

PSIC 6525 Psychological Analysis of Power

Three credits. Three hours of lecture a week.

Analysis of the concept of power at the individual level (power traits, power motivation, foci of control), at the group level (leadership, relations between the sexes). Some emphasis will be given to the communal and institutional levels.

PSIC 6526 Spirituality in Psychology

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

Prerequisites: PSCI 3005 or 3003 This graduate-level course examines contemporary conceptualizations and debates surrounding the notion of spirituality in the work of psychology, particularly its integration into therapeutic practice and in the preparation of the helping professional. It reviews the ethical premises for psychology as it integrates

spirituality into its research and practice.

PSIC 6527 Fundamentals of Human Sexuality

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director This introductory course aims to offer insight into human sexuality. It includes processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective and in its social dimension. The student will examine some sexual issues in Puerto Rican society.

PSIC 6528 Violence and Complexity

Three credits. Three hours of seminar per week.

The purpose of this course is to contribute to the production of a conceptual framework in which to situate violence as a complex, socially constructed phenomenon. The relationship between psychic life and social life will be studied from the centrality that the signifier of violence has acquired in our contemporaneity. This includes a close examination of the relationships between the history of the constitution and identifications of the subject (subjectivation) and the world we share with others (intersubjectivity) and its relation to violence. The contributions of the knowledge produced by the psychoanalytic discourse for the analysis of violence will be examined and dialogic relations between the psychoanalytic discourse and other contemporary fields of theorization such as poststructuralism, deconstructivism, social constructivism and Lacanian psychoanalysis will be promoted. The contributions of traditional psychology to the subject of violence are critically examined.

PSIC 6529 Review and Critical Analysis of the Psychological Literature in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Have passed a minimum of 9 graduate credits.

Review of research and publications that have been done in Puerto Rico, their theoretical frameworks, methodology and implications to understand the psychological reality of Puerto Ricans. A framework for analysis and critique will be provided.

PSIC 6535 Theoretical Controversies on Human Development: Early Childhood

Three credits.

Different aspects of human development from birth to seven years of age will be examined. The approach is epistemological, emphasizing the basic assumptions of the discipline, the fundamental controversies, and the ideological and philosophical aspects of the theories examined.

PSIC 6537 Psychopathology of Affective Development in Childhood: Psychoanalytic Perspective

Three credits.

Prerequisite: Permission of the director To provide a clinical view of the child's affective development from a psychoanalytic perspective, allowing knowledge of child psychopathology.

PSIC 6545 Program Evaluation and Consulting

Three credits. Three hours of lecture a week.

Introduction to the basic concepts and methods of consulting and program evaluation and the ethical and evaluative controversies surrounding them. Emphasis is placed on developing skills in these areas and applying them in public service programs and private agencies for non-pecuniary purposes.

PSIC 6546 Analysis of Interventions in Organizations: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 or its equivalent, permission of the director or PSIC 6026 Analysis of interventions carried out in public and private organizations in and outside Puerto Rico, in light of the conceptual models that guide them. Different intervention models, their purposes, conceptual frameworks and ethical principles are presented. Analysis of the current applications of these and other models, paying particular attention to the congruence between theory and practice.

PSIC 6555 School Psychology

Three credits. Three hours of discussion a week.

General orientation on school psychology, focusing the discussion on the public education system of Puerto Rico and on the ethical principles of the discipline. It focuses on the various functions that are carried out in professional practice in this area and on the historical and future development of school psychology.

PSIC 6591 Practice in School Psychology I

Three credits. Eleven hours of supervised practice per week.

Prerequisite: PSIC 6555 Supervised practice in providing services in the school setting that includes experiences such as: direct classroom observation, health promotion and prevention, community relations, interventions with academic and discipline problems.

PSIC 6592 School Psychology Practice II

Three credits. Three hours of direct supervision and ten hours of practice per week in the school setting.

Prerequisites: PSIC 6401, 6403, 6555, and 6591 Continuation of Supervised Practice in Providing Psychological Services in a School Setting. The student will gain experience in intervention strategies such as crisis and conflict intervention, management of specific behaviors in groups, interdisciplinary teamwork, psychoeducational and program evaluations. The course is complementary to PSIC 6591.

PSIC 6995 Research Practicum

One to four credits per semester.

Prerequisite: Be enrolled in the graduate program and permission from the professor. The course is aimed at developing the necessary skills for psychological research through their active participation in the development of research projects, under the supervision of a professor. The course can be repeated with credits, without limit with the approval of the research professor.

PSIC 7005 Seminar in School Psychology: The Functions of the School Psychologist

Three credits. Fifteen hours of lecture per week.

Prerequisite: Director's Permission Study of the Clinical Process with Learning and Behavioral Disabilities. Emphasis on the integration of data from case histories, interviews, and psychometric tests.

PSIC 8002 Dissertation Paper

No credit. Three hours of discussion a week.

Prerequisite: PSIC 8001 This course is designed for the purpose of following up on the work done in the dissertation seminar. In this case, the research proposed in the seminar course will be completed, i.e., the information will be collected and interpreted with the advice of the dissertation committee. The student will enroll in the course each semester in which he/she is carrying out his/her dissertation work and will submit written reports of his/her progress periodically. You will complete your thesis work by submitting the final dissertation essay.

PSIC 8005 School Psychology Seminar: Professional Problems of School Psychology

Three credits. Three hours of lecture a week.

In-depth examination and analysis of unresolved problems in the area of psychoeducational diagnosis and intervention and behavior modification; Counseling, consulting, and counseling for parents.

PSIC 8007 School Psychology: Mental Health Consulting in Schools

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director, student consortium Consulting as a model of school psychological service. The student will become familiar with and train in various modalities and levels of consulting that will be used as a school psychologist. The research and evaluative aspects of the consultancy will be studied.

PSIC 8015 Advanced Social Psychology II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Examines historical forms of subjectivity in areas of everyday life such as child-rearing, morality, sexuality, and love relationships.

PSIC 8018 Contemporary Social Research: Meeting with its Authors

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007, and PSIC 8017 Diverse approaches in social science research by meeting researchers and discussing their research with them.

PSIC 8019 The Social Scientist as a Judicial Expert

Three credits. Three hours of lecture a week.

Prerequisite: Master's degree in psychology or in one of the social sciences Theoretical and practical considerations in the preparation of the social scientist as a judicial expert.

PSIC 8027 Advanced Psychobiology: Fundamentals, Uses, and Controversies

Three credits.

In the period of discussion, the influences of modern biology are considered, particularly the evolutionist, etiological and systemic currents in the psychological conceptualization of the human being. Essential concepts such as assessment, adaptation, species-typical behavior, biological niche, and systemic organization. The discussion period is complemented by a hands-on laboratory when considering the controversies and applications of a psychobiological approach.

PSIC8028 Psychopharmacology

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

Prerequisites: PSIC6317 or PSIC8027.

Aspects of psychopharmacology and neurophysiology will be discussed in the course. It will include lectures on Anatomy and Physiology of the Nervous System, Synaptic Neurochemistry, Pharmacokinetics and Pharmacodynamics and on the neuropharmacological impact of different drugs on states of consciousness and behavior. The neurobiological basis of mental disorders, the mechanisms of action of different medications and the strategies used in experimental studies and clinical psychopharmacology will be studied. Anxiolytics and antidepressants, antipsychotic drugs, sedative hypnotics, and narcotics will be discussed. The content will be presented from both a basic science perspective and from a clinical orientation combining lectures and lecture discussions. The course is designed especially for students of the graduate program of Clinical Psychology and for doctoral students with a specialization in Academic-Research Psychology.

PSIC 8105 Psychology and Social Movements

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 The theoretical-practical contributions of psychology to the social movements of the last decades in Puerto Rico are analyzed.

PSIC 8115 Social Psychology of Education

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 or EDUC 6270 Examination of the crises of education in contemporary capitalist society. Critical analysis of the most important theoretical fields for its explanation. The social construction of education and the new subjectivity.

PSIC 8125 The Sociocultural Study of the Mind

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

Analysis of the sociocultural approach as a conceptual framework in the study of the mind. Discussion of the historical background of the approach and its development to the present with emphasis on the research program it has generated.

PSIC 8203 Models and Techniques of Psychotherapy

Three credits. Three hours of lecture a week.

This course focuses on the exposition of the different theoretical models of psychotherapy, as well as their origins and evolutions. Once the basis of the theoretical models is established, current therapeutic approaches will be examined from a critical point of view, emphasizing the conceptual problems, methodology, and alternatives to deal with such problems. Evidence-based psychotherapeutic approaches used with different populations will also be discussed. Face-to-face course.

PSIC 8204 Personality and Human Diversity

Three credits. Three hours of lecture a week.

This course addresses the categories of personality, subjectivity and subjectivation from a critical and complex approach. It examines the paradigmatic assumptions underlying theories of personality and traditional approaches to the study of the human being. It proposes a conceptual approach that includes debates on the human from the paradigm of complexity, constructivism, psychoanalytic theory and updated foundational psychological premises. It explores the application of this conceptual approach to the human, pertinent in contemporary clinics, as well as particular considerations of the Puerto Rican population and the inescapable sensitivity to differences and cultural and individual diversity necessary in psychological formation. Face-to-face course.

PSIC 8205 Advanced Psychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401 and PSIC Training in the administration and interpretation of various techniques used in personality assessment such as: TAT, Bender Gestalt and Drawing the Person. It includes supervised practical work, laboratory work, and the submission of written reports. Face-to-face course.

PSIC 8206 Advanced Psychological Assessment Practice

A credit.

Prerequisites: PSIC 6401 and PSIC 6403 Corequisite PSIC 8205 Intensive practice in the administration and evaluation of the following tests: Thematic Apperception Test (TAT), Apperception Test for Children (CAT), Bender Gestalt Visual-Motor Test, Human Figure Drawing among other tests. To the above are incorporated the tests contained in the Psic course. 6401; Psychological Assessment I, worked on in the practice of this course, Psic. 6403. Personality inventories such as the *Personality Assessment Inventory (PAI)*, the *Minnesota Multiphasic Personality Inventory-2 (MMPI-2)* and Rorschach basics are also included. Emphasis is placed on the clinical approach of the responses of the subjects with whom we work, which are part of their discourse and life history. Face-to-face course.

PSIC 8215 Psychology and Law

Three credits.

Analysis of basic concepts common to psychology and law.

PSIC 8216 Employment and Discrimination.

Three credits. Three hours of lecture a week. Prerequisite: Director's Permission Critical Analysis of Discrimination in Employment and Its Consequences.

PSIC 8300 Advanced Clinical Psychology Practice

A credit. Three hours of supervised practice.

Prerequisites: PSIC 6434 This advanced clinical practice in psychotherapy (individual, group, couples and/or families, and/or psychological evaluations), allows students to increase their face-to-face clinical hours and refine their clinical skills. During this advanced internship, students will also be able to increase exposure to diverse populations and rotate into externship clinical internships. Face-to-face course.

PSIC 8301 Advanced Family and Couples Therapy

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6432 & PSIC 8203 Corequisites: PSIC 8302 This course provides the student with an overview of the basic concepts and fundamentals of family and couples therapy. They will also become familiar with the various systemic theoretical models. The different techniques used by the different theoretical models will be emphasized. In the same way, they will develop group research skills that respond to a family or couple problem. Face-to-face course.

PSIC 8302 Advanced Family and Couples Practice

A credit. Supervised practice.

Prerequisites: PSIC 6432 and PSIC 8203 Corequisites: PSIC 8301 This course is a clinical practice where the student has the opportunity to acquire the advanced clinical skills to work with couples and families from a systemic perspective. During this clinical practice, the student will have interventions with clinical cases using one or more systemic theoretical models. This practice should be taken simultaneously with the theoretical course of advanced therapy for families and couples.

PSIC 8303 Research Practice

A credit.

The goal of this course is to foster the research experience in students. These will join a faculty member's project to acquire and refine research skills. They will be working under the supervision of a mentor/researcher. Students are required to attend one hour per week of research under the mentorship of their supervisor. Each supervisor's research project will have a brief description of their research. This course can be taken more than once to continue with a research project. In addition, their respective research supervisors will add additional references to the course. Face-to-face course.

PSIC 8304 Clinical Supervision Seminar

A credit.

Prerequisite: PSIC 6433 This course provides the student with an overview of clinical supervision and the different approaches and models of supervision applied to clinical psychology. The student is exposed to the development of supervision as a fundamental part of the training of a psychologist. The student will be able to appreciate different conceptualizations of clinical supervision according to each theoretical model and its particular objectives, approaches, and strategies. In addition, you will learn the difference between supervision and consulting. In addition, the student will have the opportunity to create and develop instruments to measure variables that should be present in each psychotherapeutic model. There will be integration in theory and research in the search for research publications on psychotherapy and supervision. Face-to-face course.

PSIC 8335 Research Methods in Human Developmental Psychology

A credit. Three hours of lecture a week.

Prerequisite: PSIC 6006, 6007, 6301 and permission Discussion of the most frequently used methods in psychological research on human development. Examination of the central issues of time analysis, changes over life, the contributions of the evolutionary approach, and the relationship between research and theory development.

PSIC 8405 Linking Theory: Critical Analysis and Clinical Application

Three credits. Three hours of lecture a week.

It discusses the basic assumptions of theory based on etiological study. It is compared with other dynamic approaches and clinical applications are derived.

PSIC 8407 Rorschach Technique

Four credits. Three hours of lecture and three hours of supervised practice per week.

Prerequisites: PSIC 6020, 6401 and 6402 Introductory course in the Rorschach psychological assessment technique. It includes the theoretical basis of the latter, the principles of administration, qualification and interpretation. Provide hands-on experience.

PSIC 8409 Psychotherapeutic Research: Process and Outcome

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

Prerequisite: Teacher's permission Formal research on psychotherapy programs with children, adolescents, and adults in various modalities (such as individual, group, couples, and family). Review of research on psychotherapeutic processes and outcomes.

PSIC 8411 Psychoanalytic Seminar Part I: Adult

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Study of Freud's writings, fundamental for the knowledge of subjectivity.

PSIC 8412 Psychoanalytic Seminar Part II: Child

Three credits. Three hours of lecture a week.

Study of the basic texts of the most important psychoanalysts in the field of child psychoanalysis.

PSIC 8415 Analysis and Reflection on the Practice of Clinical Psychology in Puerto Rico

Three credits. Three hours of lecture per week and nine hours of lab. Prerequisite: PSIC 6431, 6432, 6433, and 6434 Advanced Supervised Practice in Psychotherapy (Individual, Group, Couples and/or Family, and/or Psychological Evaluations). It makes it possible to generate new approaches and models of intervention, as well as to refine clinical skills and delve into particular populations or problems. This practice course consists of three credits per semester and can be repeated up to three times.

PSIC 8416 Psychological Evaluation of Children with Disabilities

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3025, 6301, 6401, 6402, 6403 and 6404 Theoretical and Methodological Controversies on the Psychological Evaluation of Children with Disabilities. Examination of the effects of impairment on children's development, their families and the problem of social and educational placement.

PSIC 8420 Seminar: Family Study

Three credits.

Prerequisite: PSIC 6421 Critical Study of the Theoretical and Research Literature on Families and Its Applicability in Puerto Rico. Research techniques will be developed for the study of families in Puerto Rico.

PSIC 8425 Psychotherapy Supervision Seminar

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: 60 graduate credits in clinical psychology or equivalent.

Critical consideration of the theoretical and practical aspects of psychotherapy supervision. Hands-on experience in observation, research, and supervision.

PSIC 8505 Psychology and Reason

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007 Analysis of the separation of body and the "software/hardware" fission of work and its consequences on the constitution and development of psychology.

PSIC 8506 Advanced Seminar on Contemporary Psychology Community: Discussions

Three credits. Three hours of lecture a week. Prerequisite: PSIC 6105;

PSIC 6106 Contemporary Debates in Community Psychology

y its concretion in research and intervention. The discussion is framed in community psychology in Puerto Rico.

PSIC 8507 Consulting in the School Context

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

PSIC 6555 Study of the different roles and functions of the consultant in the school context.

In-depth discussion of the basic principles and intervention models in professional psychological consulting. Emphasis on the stages of the consulting relationship and the processes that take place during the intervention.

PSIC 8508 Consulting Practice in the School Context

Zero credits. Ten hours of supervised practice and three hours of supervision.

Prerequisite: PSIC 6555.

Supervised practice in consulting in the school context in which theoretical knowledge is applied and skills of the discipline are developed. The course is complementary to consulting in the school context (PSIC 8507).

PSIC 8515 Biological Approaches to the Study of Psychopathology

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6408, PSIC 6317 or PSIC 8027 Study of biological models that have been proposed to explain various conditions of human psychopathology. Emphasis on critical analysis of research that supports or contradicts these models and the pharmacological interventions that derive from them. Analysis of the most important controversies in the application of these
y its impact on the practice of psychology.

PSIC 8516 Psychoeducational Evaluation

Three credits. Three hours of lecture per week and two hours of supervised practice a week.

Prerequisites: PSIC 6401, 6403, and 6555 Analysis of psychological and educational concepts and strategies used in psychoeducational assessment. It includes the conceptualization of what assessment is in the school context, assessments of academic achievement, basic writing skills, reading mathematics, as well as social performance and dynamic cognitive aspects and pedagogical strategies. Integrate, as fundamental aspects of psychoeducational evaluation, modalities of corrective and remedial intervention strategies. Provide for the application of concepts and the development of particular skills that allow psychoeducational evaluations to be carried out.

PSIC 8525 The Game: Reflection, Analysis and Intervention

Three credits. Two hours of lecture per week and two hours of supervised practice a week.

Prerequisite: PSIC 8405, and PSIC 8412 Study of play in children from the psycho-analytic and interactional perspective and its implications in clinical practice with children. Critical Examination of Other Theoretical Perspectives
y its clinical application. Supervised practice in clinical intervention.



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DEGREE: Doctor of Philosophy with a specialty in Psychology Area of Emphasis in Neurocognition and Human Development

TEACHERS:

Cruz Bermúdez, Nelson D., PhD , Brandeis University, 2007, Assistant Professor. Research topics: Neuroscience of drug addiction and mental disorders; neuroeducation.

Dávila Marrero, Elixmahir, PhD , University of Puerto Rico, 2005, Assistant Professor. Research topics: Neuropsychological assessment and neurocognitive rehabilitation of neurodegenerative diseases and TBI. Use of video games as a cognitive rehabilitation tool with children and adolescents. Alternative education as a current educational strategy. Standardization of psychological testing for the Puerto Rican population.

Espada Brignoni, Teófilo, PhD , University of Puerto Rico, 2015. Assistant Professor. Research topics: Culture and subjectivity, Social movements, Empathy, Attributions and discourses in everyday life, Processes of subjectivation, Art and community intervention, Psychology and literature, Music and society.

Galarza García, Laura, PhD , Rice University, 2000, Professor. Research Topics: Industrial-Organizational Psychology; Comparative and International I/O Psychology; Aerospace Psychology; strategy and organizational change; Selection, development and management of individual and organizational performance; Work engagement.

García Ramos, Tania, PhD , Universidad Complutense de Madrid, 1995, Professor. Research Topics: Industrial Organizational Psychology; Psychology of work and organizations; Work and subjectivity; Theorizing around work; research methodology; Epistemology of complexity.

Gómez Escudero, María de los Ángeles, PhD, Université de Paris V, 1991, Professor. Research topics: Parenting and filiation; the body in speeches; Problems of Psychopathology, Psychoanalytic Clinic.

Jiménez Torres, Aida, PhD, University of Puerto Rico, 1993. Associate Professor. Research Topics: Family and Couples: Attachment: Multiculturalism and Psychotherapy.

Martínez Mejías, Sylvia, PhD , University of Puerto Rico, 1998, Professor. Research topics: Studies in affective bonding and attachment theory; Court expertise in custody and special education cases; Evaluation in early intervention and developmental deficiencies.

Méndez Castillo, Milagros, PhD , Fordham University, 1993, Associate Professor. Research topics: Sexuality in adolescents, Violence in schools, Health psychology, Teaching psychology.

Miranda Gierbolini, Dolores, PhD, Temple University, 1987, Professor. Research topics: Development of sustainable communities, Social movements, Social policy, Political subjectivations, critical citizenship and social change, The human in the ecological complex, The hidden faces of violence.

Morales Arandes, Edgardo, Ed.D, Boston University, 1986, Associate Professor. Research topics: Language and metaphor as models for the construction of socio-organizational and personal realities; participation and democracy at work; relational constructionism; constructionist approaches to psychotherapy; dialogic and collaborative practices; evidence-based psychotherapy; qualitative research.

Nina Estrella, Ruth V., PhD, National Autonomous University of Mexico, 1991, Professor. Research topics: Interpersonal communication, family, couple relationships and sexuality and adolescence.

Ruiz Alfaro, Frances, PhD, University of Puerto Rico, 2014. Assistant Professor. Research topics: Affective bonding; Discourse and Literature, Subjectivity; Autism Spectrum Disorder Evaluation.

Santiago Estrada, Sara, PhD , University of Puerto Rico, 2013. Associate Professor. Research Topics: Transformations at Work; Study of subjectivities in work scenarios, educational organizational scenarios; Change in organizations.

Tirado Santiago, Giovanni, PhD, McGill University, 2006, Associate Professor. Research topics: Neural plasticity; biopsychology of learning and memory; Neuroimaging of cognitive functions in major depression.

Vale Nieves, Otomie, PhD, **University of Puerto Rico, 1993, Professor. Research Topics: Technology and Learning; development, subjectivity and historical context; critical psychology; language and subjectivity; construction of the youth, technology and gender.**

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Possesses, or is in the process of completing no later than the summer of the year in which you intend to commence graduate studies, a bachelor's or bachelor's degree from an accredited institution or university.
2. Have a general academic index of not less than 3.00 points (or its equivalent in the grading system of the university of origin) or a general academic index (baccalaureate and master's degree) of no less than 3.00 points if you have a master's degree.
3. Academic index of no less than 3.00 points in: (a) General or Introductory Psychology; (b) Social Psychology or a course related to the area of specialty to which you are applying; (c) Elements of Statistical Reasoning; (d) Psychological Research Methodology.
4. Be fluent in Spanish and English.
5. Attend an interview.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format through the *ApplyYourself* platform.
2. Two official transcripts.
3. Provide a *resume*.
4. Write an essay.

Other Requirements (for those candidates who qualify)

1. Group interview for which you will be summoned.

PROGRAM OF STUDY:

Code	Requirements	Credits
Courses required for the Master of Arts degree with a specialty in Research Psychology in Neurocognition and Human Development		30
Core Courses of the Doctoral Level		12
PSIC 8000	Philosophical Foundations	3
PSIC 8200	Fundamentals of Social Psychology and Current Issues	3

Code	Requirements	Credits
PSIC 6030	Ethics Module	1
PSIC 6040 PSIC 6050 PSIC 6060	Two of the following Proseminar in General and Applied Psychology: Principles of Supervision Principles of Consulting Evaluation of Programs and Services	2
PSIC 8126	Human Learning	3
Courses in the area of specialty		23
PSIC 8127	Contemporary Debates on the Psychology of the Young	3
PSIC 6995	Research Practice III	3
PSIC 6401	Psychological Evaluation I	3
PSIC 6403	Psychological Assessment Internship	1
PSIC 8128	Neuropsychological Evaluation	3
PSIC 8130	Internship in Neuropsychological Evaluation	1
PSIC 8101	Human Neurodevelopment	3
PSIC 8129	Psychology of Adulthood and Old Age	3
PSIC 8509	Cognitive Neuroscience	3
Elective Courses		15
Candidacy Examination		0
Dissertation		
PSIC 8001	Dissertation Seminar	0
PSIC 8002	Dissertation Work	0

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

PSIC 6030 Proseminar in General and Applied Psychology: Ethical Issues in Psychology

A credit. Sixteen lecture hours per semester.

The course will familiarize the student with the problems and considerations to be taken in the construction, development and application of an ethical system for the profession, the basic premises, notions and ethical implications of using various models of man will be analyzed as illustrated with the various psychological paradigms. The discussion of cases, situations and paradoxes in the practice of professional psychology will be used.

PSIC 6040 Proseminar in General and Applied Psychology: Principles of Supervision

A credit. Sixteen lecture hours per semester.

Some of the most relevant theories on management and supervision and important aspects of supervision such as objectives, work planning, control, coordination and evaluation will be

discussed. The unit will be conducted mainly through lectures, case discussions, and simulation of roles and real situations. Face-to-face, hybrid and online course.

PSIC 6050 Proseminar in General and Applied Psychology: Principles of Consulting

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with consulting and counseling service models in order to know and apply the basic principles of these models to situations that require the advice of a psychologist.

PSIC 6060 Proseminar in General and Applied Psychology: Evaluation of Programs and Services

A credit. Sixteen lecture hours per semester.

This module invites you to review the existing literature on evaluation techniques and strategies in different contexts: government agencies, educational programs, community action programs, and services of a preventive or corrective nature in general.

PSIC 6401 Psychological Evaluation I

Three credits. Two hours of lecture per week.

Prerequisite: PSIC 6020, 6405 and 6408.

Critical analysis of the theoretical and practical aspects of psychological assessment by means of the intelligence test. It includes the historical, conceptual and ideological aspects of this mode of evaluation; the Stanford-Binet and Wechsler tests (for children and adults); its uses, scope, limitations, administration, valuation and interpretation.

PSIC 6403 Psychological Assessment Practice I

A credit. Three hours per week of supervision sessions and twelve hours of practice.

Prerequisite: PSIC 6020, 6405, 6408 and be enrolled in PSIC 6501 Supervised experience in administering, assessing, and interpreting intelligence tests, as well as writing psychological reports.

PSIC 6995 Research Practicum

One to four credits per semester.

Prerequisite: Be enrolled in the graduate program and permission from the professor. The course is aimed at developing the necessary skills for psychological research through their active participation in the development of research projects, under the supervision of a professor. The course can be repeated with credits, without limit with the approval of the research professor.

PSIC 8000 Philosophical Foundations of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Changes in the Paradigms of Science and Their Consequences in Psychology.

PSIC 8001 Dissertation Seminar

No credit. Three hours of discussion a week.

Prerequisite: Master's degree or PSIC 6007. Permission of the director and/or coordinator of the graduate program. The dissertation is original research that demonstrates the student's capabilities as an independent researcher. During his/her dissertation seminar, the student will choose his/her research topic and problem, review the literature (relevant theoretical and empirical findings) and elaborate the research design or action plan. You will submit a formal proposal to the dissertation committee for approval.

PSIC 8002 Dissertation Paper

No credit. Three hours of discussion a week.

Prerequisite: PSIC 8001. This course is designed for the purpose of following up on the work done in the dissertation seminar. In this case, the research proposed in the seminar course will be completed, i.e., the information will be collected and interpreted with the advice of the dissertation committee. The student will enroll in the course each semester in which he or she is taking the course.

Carry out your dissertation work and submit written reports of your progress periodically. You will complete your thesis work by submitting the final dissertation essay.

PSIC 8101 Human Neurodevelopment

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6317. The course expands fundamental concepts of human neurodevelopment by studying the neurobiological mechanisms underlying the formation of the nervous system. The major cellular processes in the development of the nervous system are discussed, including cell division, migration, and basic signaling pathways. It includes appraisals of the human brain in utero, during infancy and childhood, adolescence, adulthood, and old age.

and discussions in functional neuroanatomy. Discussions on neurobiological processes involved in cognitive functions and neurodevelopmental pathologies are examined. Structural, functional, connectivity, and neurochemical changes in the brain are studied throughout life. Finally, the course provides a foundation for future work in basic sciences, clinical applications, and research on the development and function of the nervous system. This course will be offered in face-to-face, hybrid, distance learning and online modalities.

PSIC 8126 Human Learning

Three credits. Three hours of lecture a week.

Critical exposition of the main psychological theories of human learning. The historical and methodological background that led to the emergence of this field of study will be presented. Behaviorist theories, cognitive theories, and constructivist theories of human learning will be examined. Contemporary topics such as meta-cognition, transference, problem solving, and the role of motivation in the human learning process will be analyzed. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 8127 Contemporary Debates on Youth Psychology

Three credits. Three hours of lecture a week.

The course will critically analyze classical and contemporary theories of human development in adolescence. Particular emphasis will be placed on the socio-historical determinants that serve as the basis for such theories. It will examine the prominent place occupied by the family, the school, the mass media, particularly social networks, in the constitution of young people's subjectivities. In the context of Puerto Rico, some of the behaviors of young people that tend to be problematized will be examined, including: pregnancy, dropping out of school, and drug use. Various contributions of young Puerto Ricans to social life through reprobations and innovations in their daily practices, particularly in art and ecology, will be analyzed. Finally, some psychotherapeutic alternatives will be examined, if necessary. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 8128 Neuropsychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401, PSIC 6403, PSIC 6317, PSIC 8027, PSIC 6325 and PSIC 8125.

The theoretical bases that frame the neuropsychological assumptions that facilitate the neuropsychological evaluation process are established. Different pathologies of the central nervous system are studied in their relationship with behavior and their evaluation through neuropsychological methods. In addition, different neuropsychological assessment instruments are presented in the evaluation of children and adults. The use of these tools and the growing need for the development of culturally sensitive tools and norms are problematized. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 8129 Psychology of Adulthood and Senescence

Three credits. Three hours of lecture a week.

The course will critically analyze the classical and contemporary theories on human development in adulthood and senescence proposed by evolutionary psychology. Particular emphasis will be placed on the socio-historical determinants that serve as the basis for such theories. It will study the physical transformations, cognitive and psychic processes of adulthood and senescence, considering that the forms of representation and experimentation of these processes are saturated by the dominant social understandings, particularly the scientific-research, including the field of gender, production, sexual and technological, among others. Some of these forms of representation of adult life and senescence in Puerto Rico will be examined. This course will be offered in face-to-face, hybrid and online modalities.

PSIC 8130 Practice in Neuropsychological Evaluation

A credit.

This course is the practical sequence of PSIC 8128 (Neuropsychological Evaluation). The main emphasis is on the process of selection and administration of neuropsychological tests, as well as the analysis of the results from an integrative perspective between the observable and measured residual functioning and the reason for the referral. Emphasis is also placed on the writing of the neuropsychological evaluation report where the results of the evaluation process

are reflected along with the recommendations and possible diagnoses. The student is exposed to different assessment instruments taking into consideration the flexible battery model and the most appropriate comparison standards for the patient being evaluated, among others. This course will be offered face-to-face and hybrid.

PSIC 8200 Fundamentals of Social Psychology and Current Issues

Three credits. Three hours of lecture a week.

This course studies the theoretical and methodological foundations of social psychology. The course discusses classical and contemporary theories, major in social psychology research, as well as new trends, such as the affective aspects of social behavior. This course is divided into four general units: epistemological and historical background, theorizing the individual in the social context, affective aspects of social dynamics and power structures, and contemporary related fields. In each unit, theoretical and methodological approaches are examined to provide students with the opportunity to develop an understanding of the field as well as research methodology from a social psychological perspective and integrate the social and affective aspects of behavior. Ethical issues related to theory, research, and psychosocial interventions are discussed. This course examines the social and affective processes that affect behavior. Face-to-face course.

PSIC 8509 Cognitive Neuroscience

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6317 The cognitive neuroscience course proposes to explore cognitive processes from the study of the functioning of the brain. The course will cover fundamental concepts about the relationship of cognitive research and theories to current neuroscientific research. The most prominent methods for conducting research will be discussed, as well as techniques for study with human subjects. This will be followed by a discussion of the neural aspects of visual cognition, attention, memory, numerical processing, cognitive control, decision-making, and emotion regulation. It will conclude by discussing research in the field on consciousness, as well as emerging areas for the study of consciousness such as social and cross-cultural neuroscience.

OTHER COURSE DESCRIPTIONS:

PSIC 6005 Theories of Personality

Three credits.

Study of theories on the structure, dynamics and development of personality, emphasizing contemporary approaches. Critical examination of problems, theories, and research that help clarify the role of motivation in personality.

PSIC 6006 Statistics Applied to Psychology

Three credits.

Statistical methods and their applications in psychological research. Data collection, organization, and analysis; frequency distribution; measures of central tendency, variation, asymmetry, and kurtosis; theoretical, binomial, normal, and Poisson distributions; sampling, sampling distribution, hypothesis testing for large and small samples; point-based and interval-based estimates.

PSIC 6007 Seminar: Methods of Psychological Research

Three credits. Three hours of lecture a week.

Discussion of the basic methods of research in the field of psychology, with examples of the most frequently used techniques. Discussion of topics such as controls in psychological research, the concept of explanation and prediction, the practicalities of different research problems, the selection of areas, methods, and topics in psychological research.

PSIC 6008 Thesis Work

No credits. Meeting by agreement.

Prerequisite: PSIC 6010 The course is designed for those students who need guidance and advice from their thesis advisors in relation to the difficulties encountered in the different phases of the thesis research work and in the preparation and writing of the thesis. The student will enroll in the course each semester in which he/she is carrying out his/her thesis work.

PSIC 6009 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The purpose of this course is to give the student a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, physiological sensation and perception, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area

PSIC 6010 Thesis Seminar

Three credits.

Prerequisite: PSIC 6007 Seeks to hone the creative and critical capacities of participants through the cultivation of dialogue and scientific exposition, both oral and written. It requires the preparation of candidates for the critical examination before the faculty panel and fellow students.

PSIC 6015 Proseminar in General Psychology

Three credits. Three hours of lecture a week.

The purpose of this course is to give a general examination of the eight areas of psychology that encompass what is typically taught in a general or introductory psychology course. The areas to be covered are: history and systems, sensation and perception, physiological, learning, personality, abnormal and social development. These areas will be covered through two semesters of instruction. Five weeks will be dedicated to each area.

PSIC 6020 Proseminar in General and Applied Psychology: Principles of Psychological Measurement

A credit. Sixteen lecture hours per semester.

This module aims to expose the student to the basic principles of psychological assessment in its broadest sense. The emphasis will be on the discussion of the concepts of validity, reliability, normalization and standardization, among others.

PSIC 6025 Psychosocial Approach to the Study of Organizational Behavior

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program The following topics are covered relatively quickly: organizational design, motivation, satisfaction, communication, conflict, and others. It delves into the discussion of some methods that have been used to try to facilitate change in organizations. It critically evaluates current administrative practice and tries to identify and question the ideology or set of values that informs it. It illustrates the negative consequences of such an ideology and raises the possibility that the tendency of human beings to unilaterally control their situation leads precisely to organizational ineffectiveness. We are invited to invent and explore models of control that lead to effectiveness.

PSIC 6026 Psychological Approach to Development and Change in Organizations

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 Explores various models of producing information pertinent to organizational development and change. It is hoped that these models will be compared and evaluated so that the student will become familiar with them and feel able to begin to explore the application of some of them.

PSIC 6070 Proseminar in General and Applied Psychology: Puerto Rican Society and Culture

A credit. Sixteen lecture hours per semester.

In this module, the student is familiarized with the effect of variables resulting from Puerto Rican society and culture on individual and group behavior. Emphasis is placed on the analysis of situations that require the intervention of the clinical psychologist in the light of these variables.

PSIC 6080 Proseminar in General and Applied Psychology: Employee Evaluation

A credit. One hour of lecture per week.

Study of employee evaluation as a system: its methods and techniques. Face-to-face, hybrid and online course.

PSIC 6090 Proseminar in General and Applied Psychology: Identification of Needs and Resources

A credit. One hour of lecture per week and one hour of laboratory time per week. The course attempts to familiarize the student with various methods or models of identifying communal needs and resources. It also attempts to provide critical elements to evaluate different models and put them in contact with the different options used by public agencies.

PSIC 6105 Advanced Social Psychology

Three credits. Three hours of lecture a week.

The course is organized around the problem of the social construction of reality. An attempt is made to develop both a theoretical and methodological framework for the study of it. For this purpose, several theories are studied, such as ethnomethodology, symbolic interactionism, role theory; and it will delve into areas such as deviance and social control, attitudes, attribution, social comparison, social movements, and ideology. An effort will be made to use Puerto Rican literature to illustrate and understand the social construction of reality.

PSIC 6106 Community Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Department It is intended to prepare the future psychologist in the analysis and solution of psychosocial problems affecting the community.

PSIC 6107 Intercultural Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Psychology This seminar aims to highlight the extent to which social psychology can be subject to cultural variations. Social psychology research in different cultures is studied, analyzed comparatively, and the implications of the findings for existing theories are considered. Emphasis is placed on research on Puerto Rican culture, and an attempt is made to replicate at least one foreign study in our culture.

PSIC 6108 Psychology, Society and Health

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: PSIC 6106 Analysis of the socio-economic conditions, organizations, and social visions that affect the health and disease situation in Puerto Rico and other countries in the Americas. The role of the psychologist in relation to this problem.

PSIC 6109 The Group as a Means of Social Intervention

Three credits. Two hours of lecture and three hours of laboratory work per week.

Prerequisite: PSIC 6105, 6106 The application of group theories to social life to facilitate psychological, social, organizational, institutional, and community change will be studied.

PSIC 6110 Seminar on the Psychological Analysis of Social and Cultural Change in Puerto Rico

Three credits. Three hours of lecture a week.

The seminar will be oriented towards the purpose of gathering pertinent information regarding the educators of change in Puerto Rico, such as: the search for the historical background of Puerto Rican society in its basic outlines: population, emigration and immigration, urban planning, poverty, slums, social stratification, education, housing, employment and unemployment, industrialization and modernization. These issues or indicators of change, among others, will be analyzed on the basis of objective and verifiable information that emerges from the examination of the literature of studies carried out here and abroad and with a psychological emphasis. It will explore how changes in these areas affect interpersonal relationships, the development of human beings, the formation of beliefs and values, and coexistence in Puerto Rico.

PSIC 6115 Analysis of Conflict and Crisis Management Strategies

Three credits. Three hours of lecture per week Conceptual and formal analysis for the management of interpersonal, group and community conflicts.

PSIC 6116 Practice in Conflict and Crisis Management Strategies

No credit.

Prerequisite: Concurrent with PSIC 6115 Supervised Practice in Interventions Aimed at Interpersonal, Group, and Community Conflict Management.

PSIC 6120 Seminar on Community Psychology and Social Policy

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director and instructor The course attempts to examine the content of public policy in the areas of health, education, and social welfare as it applies to community psychology in Puerto Rico. A thorough understanding will allow for effective planning of psychosocial intervention strategies.

PSIC 6131 Community Practice I

Three credits.

The purpose of this practice is to expand the theoretical framework discussed in the Advanced Social Psychology I and Community Psychology courses. It also aims to promote the acquisition of intervention skills in communities, formal groups, organizations, institutions or geographic communities, data collection and other aspects associated with research.

PSIC 6132 Community Practice II

Three credits.

This practice aims to expand the intervention and research skills acquired in Community Practice I.

PSIC 6133 Community Practice III

Three credits.

Prerequisite: PSIC 6132 This internship aims to refine and expand the skills acquired in the Community Practice I and II courses and to offer students the opportunity to acquire new community work skills in a new work scenario.

PSIC 6195 Social Psychology Seminar

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Study of current issues and issues in social psychology and related areas.

PSIC 6201 *Practicum I*

Three credits. One hour of lecture and twenty hours of laboratory per week. Students will dedicate at least 120 hours to practical work in an organization where they apply the concepts and techniques of the social-industrial program. Students will meet one hour a week with the supervising teacher to discuss problems and consult on references to study. As part of the course, each student will prepare a paper that is publishable in a scientific journal.

PSIC 6202 *Practicum II*

Three credits. Three hours of supervision and eight hours of practice per week.

Prerequisite: PSIC 6201 and 6205 Practice in governmental and private organizations with particular attention to the organizational problems of such institutions. The course includes 120 hours of practice, in addition to weekly meetings for supervision.

PSIC 6205 Industrial Social Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Topics pertinent to the world of work with high social content are covered. Included are the following topics: historical significance of work and needs that are met by work, technology and job satisfaction, formal and informal organization, job analysis, recruitment and selection, introduction to performance evolution and training, as well as termination of employment (layoff, retirement, and exit interviews).

PSIC 6206 Construction of Psychological Tests

Three credits. Two hours of lecture per week. Prerequisite: PSIC 6006

Theory of Constructing Aptitude Tests, Intelligence,

Exploitation, personality and interests. Practice in the preliminary development of one of these types of tests.

PSIC 6209 Psychosocial Aspects of Labor Regulations

Three credits.

Prerequisite: Admission to the Critical Analysis of Labor Regulations program in areas such as health, safety, hours, wages, labor unions, and others.

PSIC 6215 Psychosocial Approach to Organizational Conflict

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of psychological and sociological theories of organizational conflict and strategies for their solutions.

PSIC 6216 Psychological Testing Construction Laboratory

A credit. One hour of lab time per week.

Prerequisite: Take simultaneously with PSIC 6206 Laboratory for Question Writing, Item Analysis, Determination of Reliability, Standards, Equivalences, and Validity in Psychological Tests.

PSIC 6218 Psychology and Occupational Health

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6205 or equivalent The Occupational Psychology and Health course explores the workplace with an emphasis on the health, safety, and well-being of the workforce. It emphasizes the interaction of the worker and his or her workplace and its effects on the worker's life in and outside the company. The course explores topics such as: healthy organization, work-family balance and spillover effect, health and productivity, stress and health, violence at work, physiological aspects of illness, safety and accidents, as well as intervention alternatives in work scenarios. As part of the course activities, students will develop a group intervention in an organization identified by them as a contribution to the organization and the quality of life of its members.

PSIC 6225 Psychological Assessment Techniques in Personnel Selection

Three credits. Three hours of lecture a week.

Discussion of the main psychological assessment techniques used in personnel selection. Face-to-face, hybrid and online course.

PSIC 6227 Social Psychology of Work and Production in Contemporary Capitalist Society

Three credits. Three hours of lecture a week.

Analysis of the theories of alienation, communication and organization in relation to the changes in the economy and society, brought about by the contemporary crisis. The perspectives of social psychology in the technological age will be studied.

PSIC 6301 Advanced Developmental Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree in Psychology or counselor's permission Study of the basic principles of human development with emphasis on childhood and adolescence. Critical consideration of recent scientific findings. Special attention is given to the problems and particularities of children and adolescents in Puerto Rico.

PSIC 6302 Advanced Developmental Psychology

Three credits.

Prerequisite: Baccalaureate and with permission of the teacher Based on the study of the principles that govern human development, from conception to the end of adolescence. Subsequent developmental stages will be considered, such as early adulthood, middle adulthood, and the arrival of old age. Parallel to the study of the evolution of the human being during these periods, the psychological circumstances that accompany the attainment of fullness and the descent of life are discussed.

PSIC 6305 Advanced Statistics and Methodological Designs

Three credits. Three hours of lecture a week. Statistical analyses and designs, and the theory thereof.

PSIC 6306 History and Systems of Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The course examines the history of psychology, from ideas in the countries of the ancient East to contemporary psychology. An attempt is made to identify the existing historical ties of the latter. Finally, the state of the discipline and its history in Latin America are examined.

PSIC 6311 Teaching Psychology

Three credits. Three hours of lecture a week.

This course focuses on the teaching and assessment of the general psychology course. Innovations in teaching and instructional methods are discussed. The central themes and debates of general psychology, course content, ethics in teaching, and assessment of achievement are discussed.

PSIC 6312 Practice in the Teaching of Introductory Psychology

Three credits. Eight hours of practice per week.

Prerequisite: PSIC 6311 Course designed to provide supervised experiences and skills in teaching psychology. The course includes supervised practice in the different teaching methods.

PSIC 6315 Practice in the Teaching of Advanced Courses in Psychology

Three credits. Twelve hours of supervised practice per week.

Prerequisites: PSIC 6312 and Teacher's Permit Organization and teaching of an advanced undergraduate psychology course under the supervision of a professor. It includes a discussion of the philosophical foundations of teaching and the most recent aspects of the topic to be taught.

PSIC 6317 Advanced Physiological Psychology

Three credits. Three hours of lecture a week.

The course emphasizes a study of the relationship between the physiological system of an organism y conduct. Special attention is paid to the functioning of the central nervous system y its influence on behavior.

PSIC 6318 Human Learning

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The course will broadly cover the verbal memory and verbal behavior of humans. It will include a brief study of the historical background and general methodology; The remainder of the course will consist of the study of various models of memory and/or language interpolation.

PSIC 6325 Psychological Approach to the Study of Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Basic theories about the relationship between mental events and human behavior and effectiveness. The importance of cognitive processes in psychological work in Puerto Rico is emphasized.

PSIC 6327 Use and Application of the Computer to Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission Introduction to Common Terminology, Principles, and Applications of Computers to Psychological Work

PSIC 6402 Psychological Evaluation II

Three to four credits. Two hours Prerequisite: PSIC 6401, 6403 Training in the administration and interpretation of various techniques used in personality assessment, such as TAT, Bender-Gestalt, and Draw a Person. It includes supervised practical work, laboratory work, and the submission of written reports.

PSIC 6404 Psychological Assessment Practice II

No credit. Four to eight hours of practice.

Prerequisite: PSIC 6401, 6403, and be enrolled in PSIC 6402.

Supervised practice in the administration and interpretation of tests such as TAT, CAT, Bender-Gestalt, Drawing a Person, among others.

PSIC 6405 Theories of Personality and Psychotherapy

Three credits.

Discussion of the basic concepts in personality theory and psychotherapy with particular emphasis on existential and phenomenological approaches. Emphasis is placed on the pertinence and applicability of the concepts and techniques discussed, taking into consideration our diverse social idiosyncrasies and the real situation in which the Puerto Rican psychotherapist renders his or her services.

PSIC 6406 Psychotherapy Practice

No credit. Eight hours of practice per week.

Prerequisite: Enrolled in PSIC 6405.

Supervised practice in individual or group therapy. Practice is an integral part of the PSIC 6405 course.

PSIC 6407 Emergency Clinic and Short-Term Psychotherapy

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission The course proposes the study of a clinical and ethical knowledge that allows, beyond the so-called intervention, a positioning that centrally welcomes the word of the subjects who come to the clinic at a time of intricate conscious and unconscious phenomena that overflow their capacity to manage and tolerance of anguish and encourage them to connect with their crisis and their symptoms as one in which they are able to communicate with their crisis. Not only do they have an impact on external events, but as a production of their own complexity, subjectivity and discourse.

PSIC 6408 Principles of Psychopathology

Three credits. Three hours of lecture a week.

Discussion of various models of psychopathology (biophysical, intrapsychic, phenomenological, behavioral, and sociocultural) with particular emphasis on antecedents, development, and patterns of symptoms. Psychotherapeutic aspects, when pertinent to diverse patterns of psychopathology and sociocultural idiosyncrasies, are also discussed.

PSIC 6409 Practice in Psychopathology

No credit. Four hours of practice.

Prerequisite: Enrolled in PSIC 6408.

Observation, interviews, preparation of histories, diagnosis and clinical discussion of behavioral disorders. Practice is an integral part of the PSIC 6408 course.

PSIC 6410 Advanced Seminar on Behavior Modification

Three credits. Three hours of lecture per week; Practice (optional) Prerequisite: PSIC 6417 Critical and intensive study of the theoretical framework of behavior modification principles and the therapeutic effectiveness of behavior modification techniques.

PSIC 6416 Group Therapy

Three credits. Two hours of lecture and three hours of lab per week. Prerequisite: Be a student of the graduate program in psychology The course will emphasize the theoretical and practical aspects of group therapy and offer a human laboratory for client and therapist experiences in a group psychotherapy environment.

PSIC 6417 Principles of Behavior Modification

Three credits. Three hours of lecture and four hours of practicum Prerequisite: Be a student of the graduate program in psychology Study of the basic psychological principles that govern human behavior, particularly those derived from the psychology of learning. Great emphasis will be placed on the application of social learning principles to the modification of psychotic, neurotic, and maladjusted behavior in clinical and educational institutions. Special attention will also be given to the critical discussion of recent scientific findings in behavior modification with particular interest in the applicability of these findings to maladjustment problems in Puerto Rico.

PSIC 6418 Childhood Behavioral Disorders

Three credits. Two hours of lecture per week; "Practicum" by agreement Prerequisite: Permission from the Department Directorate Problems of etiology, classification, and management of children who manifest extreme isolation, boundless behavior, strange and chaotic tendencies, and behavior determined by organic disorders. Theoretical frameworks, assessment techniques, and diagnosis are considered. Practice opportunities will be provided. Lectures will be offered by guest consultants.

PSIC 6421 Family Therapy I

Three credits. Two lectures and three labs a week.

Prerequisite: PSIC 6405, 6408 Study of some systems of family therapy, their theoretical models, techniques used, and case analyses. Students are offered the opportunity to live simulated family therapy experiences (laboratory) and to conceptualize about their own experiences within the different family systems that they share personally and professionally.

PSIC 6423 Family Therapy Practice I

Three credits. Three to four hours of practice.

Prerequisite: PSIC 6405, 6408, and 6421 Observation Experiences of Family Therapy Sessions; Opportunity to work with families as a cotherapist offering family therapy. Participation in Practice Center meetings, case discussions, and supervisory meetings.

PSIC 6431 Clinical Psychology Practice I

No credit. Twelve hours of supervised practice per week.

Supervised practice in clinical observation, interviews, preparation of reports and histories, and participation in case conferences. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6432 Clinical Psychology Practice II

Two credits.

Prerequisite: PSIC 6431 Supervised practice in intellectual and personality functioning assessments, diagnostic interviews, case conference participation, counseling and individual psychotherapy with special focus on short-term problem-solving and crisis intervention. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6433 Clinical Psychology Practice III

Two credits.

Prerequisite: PSIC 6432 Supervised Practice in Group Individual Psychological Functioning Assessments and Individual Psychotherapy. Supervised experiences of individual psychotherapy, psychodiagnosis, and group therapy will be emphasized in this practice. The practice requires twelve hours of work per week, in addition to meetings with the clinical supervisor.

PSIC 6434 Clinical Psychology Practice IV

Two credits.

Prerequisite: PSIC 6433 Practice requires 12 hours of work per week in addition to meetings by appointment. It requires twelve hours of work a week, in addition to meetings with the clinical supervisor.

PSIC 6436 Intramural Practice in Clinical Psychology

Three credits.

Prerequisite: Principal's permission.

Supervised practice in psychotherapy (individual, group, couples and/or families) and psychological evaluation. This internship is carried out in the facilities of the University Center for Services and Psychological Studies (CUSEP) during the summer sessions.

PSIC 6437 Introduction to Clinical Practice

Three credits. One hour of lecture, one hour of discussion, and five hours of supervised practice per week.

The clinic is structured around concepts and foundations that provide a basis and contextualize the experiential (practical) experience. In this course, the basic concepts will be presented in a theoretical-practical-therapeutic integration. This will be carried out specifically through the discussion of different aspects: theoretical frameworks, clinical observation, interview styles and processes, clinical conceptualization, therapeutic processes, and clinical contexts.

PSIC 6505 Dream Module

A credit. Three hours of lecture a week.

Prerequisite: Director's Permission The meaning of dreams from the physiological and psychological point of view, Jung's theory of dreams and that of Dr. Efrén Ramírez. Method of dream interpretation designed by Dr. Ramírez, and its usefulness in terms of personal development, as a method of psychotherapy and as a method of group therapy.

PSIC 6506 Colloquium on Topics in Psychology

No credit. One hour of meeting per week.

Lectures, discussion and exchange of ideas between professors of the Department, students and guest lecturers. The student will enroll each semester.

PSIC 6507 The Psychology of Women

Three credits. Three hours of lecture a week.

This course is organized around the question of whether there is such a thing as a female psychology and what its biological and social determinants are. The acquisition of sex roles and their historical determination and cross-cultural relativity are studied. The literature is reviewed in relation to the biological, sexual, cognitive and affective functioning of women. In addition, it studies the development of feminist movements, the socio-political situation of women in industrial society, and the impact of these changes on relations between the sexes, the family, and Puerto Rican society.

PSIC 6510 Seminar on the Family in Puerto Rico

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

Prerequisite: Permission from the Director Analysis and Research of the History and Psychosocial Aspects of the Family in Puerto Rico. The main purpose of the seminar is to promote psychosocial research on the family and its problems.

PSIC 6515 Intelligence, Creativity, and Cognitive Complexity

Three credits. Three hours of lecture a week.

The concepts of intelligence, creativity, and cognitive complexity will be contrasted and the relevance of these concepts for today's Puerto Rican society will be determined.

PSIC 6516 Supervised Reading Course

Three credits.

Prerequisite: Teacher's permission The readings revolve around a topic chosen by the students and the teacher. The student covers the concepts with the teacher's approval and prepares a monograph on the concept of his/her preference.

PSIC 6517 Advanced Psychopharmacology and Neurophysiology of Drug Use and Abuse

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Knowledge of the psychophysiological system and its alteration through the use of chemical substances is deepened. Students will

become familiar with the chemical and pharmacological aspects of the substances that are abused, as well as those used in the different treatment modalities (methadone, naltrexone, etc.). Particular attention will be given to the study of human behavior and its interaction with the action of substances on the psychophysiological system.

PSIC 6518 Psychology of the Young

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: PSIC 6301 Study of theories and research that explain typical youth processes, taking into account the cultural variables that contribute to the formulation of such theories and the design of such research. Discussion of the physical, cognitive, social and affective aspects of development, as well as the evolution of the identity and sexuality of the young person. Analysis of family processes, school experience, relationships with peers and the influence they have on development.

PSIC 6525 Psychological Analysis of Power

Three credits. Three hours of lecture a week.

Analysis of the concept of power at the individual level (power traits, power motivation, foci of control), at the group level (leadership, relations between the sexes). Some emphasis will be given to the communal and institutional levels.

PSIC 6526 Spirituality in Psychology

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

Prerequisites: PSCI 3005 or 3003 This graduate-level course examines contemporary conceptualizations and debates surrounding the notion of spirituality in the work of psychology, particularly its integration into therapeutic practice and in the preparation of the helping professional. It reviews the ethical premises for psychology as it integrates spirituality into its research and practice.

PSIC 6527 Fundamentals of Human Sexuality

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director This introductory course aims to offer insight into human sexuality. It includes processes for clarifying personal sexual attitudes and values. The topic will be approached both from a personal perspective and in its social dimension. The student will examine some sexual issues in Puerto Rican society.

PSIC 6528 Violence and Complexity

Three credits. Three hours of seminar per week.

The purpose of this course is to contribute to the production of a conceptual framework in which to situate violence as a complex, socially constructed phenomenon. The relationship between psychic life and social life will be studied from the centrality that the signifier of violence has acquired in our contemporaneity. This includes a close examination of the

relationships between the history of the constitution and identifications of the subject (subjectivation) and the world we share with others (intersubjectivity) and its relation to violence. The contributions of the knowledge produced by the psychoanalytic discourse for the analysis of violence will be examined and dialogic relations between the psychoanalytic discourse and other contemporary fields of theorization such as poststructuralism, deconstructivism, social constructivism and Lacanian psychoanalysis will be promoted. The contributions of traditional psychology to the subject of violence are critically examined.

PSIC 6529 Review and Critical Analysis of the Psychological Literature in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Have passed a minimum of 9 graduate credits.

Review of research and publications that have been done in Puerto Rico, their theoretical frameworks, methodology and implications to understand the psychological reality of Puerto Ricans. A framework for analysis and critique will be provided.

PSIC 6535 Theoretical Controversies on Human Development: Early Childhood

Three credits.

Different aspects of human development from birth to seven years of age will be examined. The approach is epistemological, emphasizing the basic assumptions of the discipline, the fundamental controversies, and the ideological and philosophical aspects of the theories examined.

PSIC 6537 Psychopathology of Affective Development in Childhood: Psychoanalytic Perspective

Three credits.

Prerequisite: Permission of the director To provide a clinical view of the child's affective development from a psychoanalytic perspective, allowing knowledge of child psychopathology.

PSIC 6545 Program Evaluation and Consulting

Three credits. Three hours of lecture a week.

Introduction to the basic concepts and methods of consulting and program evaluation and the ethical and evaluative controversies surrounding them. Emphasis is placed on developing skills in these areas and applying them in public service programs and private agencies for non-pecuniary purposes.

PSIC 6546 Analysis of Interventions in Organizations: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6025 or its equivalent, permission of the director or PSIC 6026 Analysis of interventions carried out in public and private organizations in and outside Puerto Rico, in light of the conceptual models that guide them. Different intervention models, their purposes, conceptual frameworks and ethical principles are presented. Analysis of the current applications of these and other models, paying particular attention to the congruence between theory and practice.

PSIC 6555 School Psychology

Three credits. Three hours of discussion a week.

General orientation on school psychology, focusing the discussion on the public education system of Puerto Rico and on the ethical principles of the discipline. It focuses on the various functions that are carried out in professional practice in this area and on the historical and future development of school psychology.

PSIC 6591 Practice in School Psychology I

Three credits. Eleven hours of supervised practice per week.

Prerequisite: PSIC 6555 Supervised practice in providing services in the school setting that includes experiences such as: direct classroom observation, health promotion and prevention, community relations, interventions with academic and discipline problems.

PSIC 6592 School Psychology Practice II

Three credits. Three hours of direct supervision and ten hours of practice per week in the school setting.

Prerequisites: PSIC 6401, 6403, 6555, and 6591 Continuation of Supervised Practice in Providing Psychological Services in a School Setting. The student will gain experience in intervention strategies such as crisis and conflict intervention, management of specific behaviors in groups, interdisciplinary teamwork, psychoeducational and program evaluations. The course is complementary to PSIC 6591.

PSIC 7005 Seminar in School Psychology: The Functions of the School Psychologist

Three credits. Fifteen hours of lecture per week.

Prerequisite: Director's Permission Study of the Clinical Process with Learning and Behavioral Disabilities. Emphasis on the integration of data from case histories, interviews, and psychometric tests.

PSIC 8005 School Psychology Seminar: Professional Problems of School Psychology

Three credits. Three hours of lecture a week.

In-depth examination and analysis of unresolved problems in the area of psychoeducational diagnosis and intervention and behavior modification; Counseling, consulting, and counseling for parents.

PSIC 8007 School Psychology: Mental Health Consulting in Schools

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director, student consortium Consulting as a model of school psychological service. The student will become familiar with and train in various modalities and levels of consulting that will be used as a school psychologist. The research and evaluative aspects of the consultancy will be studied.

PSIC 8015 Advanced Social Psychology II

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 Examines historical forms of subjectivity in areas of everyday life such as child-rearing, morality, sexuality, and love relationships.

PSIC 8017 Seminar on Multiple Perspectives in Research II

Three credits. Three hours of lecture a week.

Prerequisite PSIC 6007 Examination of the different theoretical fields in psychology and their research. Analysis of the most commonly used assumptions, research strategies, methods and techniques.

PSIC 8018 Contemporary Social Research: Meeting with its Authors

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007, and PSIC 8017 Diverse approaches in social science research by meeting researchers and discussing their research with them.

PSIC 8019 The Social Scientist as a Judicial Expert

Three credits. Three hours of lecture a week.

Prerequisite: Master's degree in psychology or in one of the social sciences Theoretical and practical considerations in the preparation of the social scientist as a judicial expert.

PSIC 8027 Advanced Psychobiology: Fundamentals, Uses, and Controversies

Three credits.

In the period of discussion, the influences of modern biology are considered, particularly the evolutionist, etiological and systemic currents in the psychological conceptualization of the human being. Essential concepts such as assessment, adaptation, species-typical behavior, biological niche, and systemic organization. The discussion period is complemented by a hands-on laboratory when considering the controversies and applications of a psychobiological approach.

PSIC 8028 Psychopharmacology

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

Prerequisites: PSIC6317 or PSIC8027.

Aspects of psychopharmacology and neurophysiology will be discussed in the course. It will include lectures on Anatomy and Physiology of the Nervous System, Synaptic Neurochemistry, Pharmacokinetics and Pharmacodynamics and on the neuropharmacological impact of different drugs on states of consciousness and behavior. The neurobiological basis of mental disorders, the mechanisms of action of different medications and the strategies used in experimental studies and clinical psychopharmacology will be studied. Anxiolytics and antidepressants, antipsychotic drugs, sedative hypnotics, and narcotics will be discussed. The content will be presented from both a basic science perspective and from a clinical orientation combining lectures and lecture discussions. The course is designed especially for students of the graduate

program of Clinical Psychology and for doctoral students with a specialization in Academic-Research Psychology.

PSIC 8105 Psychology and Social Movements

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 The theoretical-practical contributions of psychology to the social movements of the last decades in Puerto Rico are analyzed.

PSIC 8115 Social Psychology of Education

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6105 or EDUC 6270 Examination of the crises of education in contemporary capitalist society. Critical analysis of the most important theoretical fields for its explanation. The social construction of education and the new subjectivity.

PSIC 8125 The Sociocultural Study of the Mind

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

Analysis of the sociocultural approach as a conceptual framework in the study of the mind. Discussion of the historical background of the approach and its development to the present with emphasis on the research program it has generated.

PISC 8201 Human Development: The Life Cycle

Three credits. Three hours of lecture a week.

The course proposes an overview of theories and research related to the development of the human subject. The relationship between the physical, cognitive and socio-emotional development of the subject from childhood to old age will be covered. Emphasis will be placed on the theoretical and scientific foundations of developmental psychology. The student will not only have information concerning developmental processes, but also a critical understanding of the processes underlying human development. The course will emphasize the dynamic processes of development and the dialectic between psychological processes and development. Face-to-face course.

PSIC 8202 Psychological Approach to the Study of Cognitive and Affective Processes

Three credits. Three hours of lecture a week.

This course studies the main theoretical models used to explain the human cognitive and affective aspects of behavior. The emergence of cognitive psychology is examined by considering socio-historical transformations. Information processing models, genetic epistemology, historical-cultural perspective, and affective processes are analyzed. Cognitive processes such as attention, sensation, perception, memory, language, and problem-solving are discussed. In particular, it analyzes how affective processes and cultural differences shape cognitive processes and human behavior. Face-to-face course.

PSIC 8203 Models and Techniques of Psychotherapy

Three credits. Three hours of lecture a week.

This course focuses on the exposition of the different theoretical models of psychotherapy, as well as their origins and evolutions. Once the basis of the theoretical models is established, current therapeutic approaches will be examined from a critical point of view, emphasizing the conceptual problems, methodology, and alternatives to deal with such problems. Evidence-based psychotherapeutic approaches used with different populations will also be discussed. Face-to-face course.

PSIC 8204 Personality and Human Diversity

Three credits. Three hours of lecture a week.

This course addresses the categories of personality, subjectivity and subjectivation from a critical and complex approach. It examines the paradigmatic assumptions underlying theories of personality and traditional approaches to the study of the human being. It proposes a conceptual approach that includes debates on the human from the paradigm of complexity, constructivism, psychoanalytic theory and updated foundational psychological premises. It explores the application of this conceptual approach to the human, pertinent in contemporary clinics, as well as particular considerations of the Puerto Rican population and the inescapable sensitivity to differences and cultural and individual diversity necessary in psychological formation. Face-to-face course.

PSIC 8205 Advanced Psychological Evaluation

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6401 and PSIC Training in the administration and interpretation of various techniques used in personality assessment such as: TAT, Bender Gestalt and Drawing the Person. It includes supervised practical work, laboratory work, and the submission of written reports. Face-to-face course.

PSIC 8206 Advanced Psychological Assessment Practice

A credit.

Prerequisites: PSIC 6401 and PSIC 6403 Corerequisite PSIC 8205 Intensive practice in the administration and evaluation of the following tests: Thematic Apperception Test (TAT), Apperception Test for Children (CAT), Bender Gestalt Visual-Motor Test, Human Figure Drawing among other tests. To the above are incorporated the tests contained in the Psic. 6401; Psychological Assessment I, worked on in the practice of this course, Psic. 6403. Personality inventories such as the *Personality Assessment Inventory (PAI)*, the *Minnesota Multiphasic Personality Inventory-2 (MMPI-2)* and Rorschach basics are also included. Emphasis is placed on the clinical approach of the responses of the subjects with whom we work, which are part of their discourse and life history. Face-to-face course.

PSIC 8215 Psychology and Law

Three credits.

Analysis of basic concepts common to psychology and law.

PSIC 8216 Employment and Discrimination.

Three credits. Three hours of lecture a week. Prerequisite: Director's Permission Critical Analysis of Discrimination in Employment and Its Consequences.

PSIC 8300 Advanced Clinical Psychology Practice

A credit. Three hours of supervised practice.

Prerequisites: PSIC 6434 This advanced clinical practice in psychotherapy (individual, group, couples and/or families, and/or psychological evaluations), allows students to increase their face-to-face clinical hours and refine their clinical skills. During this advanced internship, students will also be able to increase exposure to diverse populations and rotate into externship clinical internships. Face-to-face course.

PSIC 8301 Advanced Family and Couples Therapy

Three credits. Three hours of lecture a week.

Prerequisites: PSIC 6432 & PSIC 8203 Corequisites: PSIC 8302 This course provides the student with an overview of the basic concepts and fundamentals of family and couples therapy. They will also become familiar with the various systemic theoretical models. The different techniques used by the different theoretical models will be emphasized. In the same way, they will develop group research skills that respond to a family or couple problem. Face-to-face course.

PSIC 8302 Advanced Family and Couples Practice

A credit. Supervised practice.

Prerequisites: PSIC 6432 and PSIC 8203 Corequisites: PSIC 8301 This course is a clinical practice where the student has the opportunity to acquire the advanced clinical skills to work with couples and families from a systemic perspective. During this clinical practice, the student will have interventions with clinical cases using one or more systemic theoretical models. This practice should be taken simultaneously with the theoretical course of advanced therapy for families and couples. Face-to-face course.

PSIC 8303 Research Practice

A credit.

The goal of this course is to foster the research experience in students. These will join a faculty member's project to acquire and refine research skills. They will be working under the supervision of a mentor/researcher. Students are required to attend one hour per week of research under the mentorship of their supervisor. Each supervisor's research project will have a brief description of their research. This course can be taken more than once to continue with a research project. In addition, their respective research supervisors will add additional references to the course. Face-to-face course.

PSIC 8304 Clinical Supervision Seminar

A credit.

Prerequisite: PSIC 6433 This course provides the student with an overview of clinical supervision and the different approaches and models of supervision applied to clinical psychology. The student is exposed to the development of supervision as a fundamental part of the training of a psychologist. The student will be able to appreciate different conceptualizations of clinical supervision according to each theoretical model and its particular objectives, approaches, and strategies. In addition, you will learn the difference between supervision and consulting. In addition, the student will have the opportunity to create and develop instruments to measure variables that should be present in each psychotherapeutic model. There will be integration in theory and research in the search for research publications on psychotherapy and supervision. Face-to-face course.

PSIC 8335 Research Methods in Human Developmental Psychology

A credit. Three hours of lecture a week.

Prerequisite: PSIC 6006, 6007, 6301 and permission Discussion of the most frequently used methods in psychological research on human development. Examination of the central issues of time analysis, changes over life, the contributions of the evolutionary approach, and the relationship between research and theory development.

PSIC 8405 Linking Theory: Critical Analysis and Clinical Application

Three credits. Three hours of lecture a week.

It discusses the basic assumptions of theory based on etiological study. It is compared with other dynamic approaches and clinical applications are derived.

PSIC 8407 Rorschach Technique

Four credits. Three hours of lecture and three hours of supervised practice per week.

Prerequisites: PSIC 6020, 6401 and 6402 Introductory course in the Rorschach psychological assessment technique. It includes the theoretical basis of the latter, the principles of administration, qualification and interpretation. Provide hands-on experience.

PSIC 8409 Psychotherapeutic Research: Process and Outcome

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

Prerequisite: Teacher's permission Formal research on psychotherapy programs with children, adolescents, and adults in various modalities (such as individual, group, couples, and family). Review of research on psychotherapeutic processes and outcomes.

PSIC 8411 Psychoanalytic Seminar Part I: Adult

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Study of Freud's writings, fundamental for the knowledge of subjectivity.

PSIC 8412 Psychoanalytic Seminar Part II: Child

Three credits. Three hours of lecture a week.

Study of the basic texts of the most important psychoanalysts in the field of child psychoanalysis.

PSIC 8415 Analysis and Reflection on the Practice of Clinical Psychology in Puerto Rico

Three credits. Three hours of lecture per week and nine hours of lab. Prerequisite: PSIC 6431, 6432, 6433, and 6434 Advanced Supervised Practice in Psychotherapy (Individual, Group, Couples and/or Family, and/or Psychological Evaluations). It makes it possible to generate new approaches and models of intervention, as well as to refine clinical skills and delve into particular populations or problems. This practice course consists of three credits per semester and can be repeated up to three times.

PSIC 8416 Psychological Evaluation of Children with Disabilities

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 3025, 6301, 6401, 6402, 6403 and 6404 Theoretical and Methodological Controversies on the Psychological Evaluation of Children with Disabilities. Examination of the effects of impairment on children's development, their families and the problem of social and educational placement.

PSIC 8420 Seminar: Family Study

Three credits.

Prerequisite: PSIC 6421 Critical Study of the Theoretical and Research Literature on Families and Its Applicability in Puerto Rico. Research techniques will be developed for the study of families in Puerto Rico.

PSIC 8425 Psychotherapy Supervision Seminar

Three credits. Two hours of lecture and three hours of laboratory work per week. Prerequisite: 60 graduate credits in clinical psychology or equivalent.

Critical consideration of the theoretical and practical aspects of psychotherapy supervision. Hands-on experience in observation, research, and supervision.

PSIC 8495 Internship in Clinical Psychology

No credits.

Prerequisite: Permission from the chair of the department of psychology or coordinator of the graduate program and PSIC 6431, 6432, 6433, 6434 Supervised Practice in Clinical Psychology up to the accumulation of 2,000 hours of professional experience as the last requirement for the doctoral degree.

PSIC 8505 Psychology and Reason

Three credits. Three hours of lecture a week.

Prerequisite: PSIC 6007 Analysis of the separation of body and the "software/hardware" fission of work and its consequences on the constitution and development of psychology.

PSIC 8506 Advanced Seminar on Contemporary Psychology Community: Discussions

Three credits. Three hours of lecture a week. Prerequisite: PSIC 6105;

PSIC 6106 Contemporary Debates in Community Psychology

y its concretion in research and intervention. The discussion is framed in community psychology in Puerto Rico.

PSIC 8507 Consulting in the School Context

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

6555 Study of the different roles and functions of the consultant in the school context.

In-depth discussion of the basic principles and intervention models in professional psychological consulting. Emphasis on the stages of the consulting relationship and the processes that take place during the intervention.

PSIC 8508 Consulting Practice in the School Context

Zero credits. Ten hours of supervised practice and three hours of supervision.

Prerequisite: PSIC 6555.

Supervised practice in consulting in the school context in which theoretical knowledge is applied and skills of the discipline are developed. The course is complementary to consulting in the school context (PSIC 8507).

PSIC 8515 Biological Approaches to the Study of Psychopathology

Three credits. Three hours of seminar per week.

Prerequisite: PSIC 6408, PSIC 6317 or PSIC 8027 Study of biological models that have been proposed to explain various conditions of human psychopathology. Emphasis on critical analysis of research that supports or contradicts these models and the pharmacological interventions that derive from them. Analysis of the most important controversies in the application of these y its impact on the practice of psychology.

PSIC 8516 Psychoeducational Evaluation

Three credits. Three hours of lecture per week and two hours of supervised practice a week.

Prerequisites: PSIC 6401, 6403, and 6555 Analysis of psychological and educational concepts and strategies used in psychoeducational assessment. It includes the conceptualization of what assessment is in the school context, assessments of academic achievement, basic writing skills, reading mathematics, as well as social performance and dynamic cognitive aspects and pedagogical strategies. Integrate, as fundamental aspects of psychoeducational evaluation, modalities of corrective and remedial intervention strategies. Provide for the application of concepts and the development of particular skills that allow psychoeducational evaluations to be carried out.

PSIC 8525 The Game: Reflection, Analysis and Intervention

Three credits. Two hours of lecture per week and two hours of supervised practice per week.

Prerequisite: PSIC 8405, and PSIC 8412 Study of play in children from the psycho-analytic and interactional perspective and its implications in clinical practice with children. Critical examination of other theoretical perspectives and their clinical application. Supervised practice in clinical intervention. **Mailing Address:** 9 Avenida Universidad, Suite 901, San



Juan PR 00925-2529

Interim Director: Dr. Jaime M. Pérez Rivera Graduate Program

Coordinator: Dr. Félix López Román Telephone extensions: (787)

764-0000, extensions 87695, 87696

Portal: <http://socigrad.weebly.com>

DEGREE: Master of Arts with a major in Sociology

TEACHERS:

Jorge Giovannetti , PhD, University of North London, 2002. Professor. Ethnic and racial relations; nationalism; popular culture; Caribbean migratory movements; area studies; Intellectual History of Caribbean Anthropology.

Lidia Marte , PhD, University of Texas, Austin, 2008. Assistant Professor. Cultural Anthropology; Caribbean, Afro-diasporic and cultural studies; food justice, migration and gender; structural violence, trauma, and colonization; globalization and neoliberalism; Politics of Difference, Local Micro-Histories/Place Studies.

Jesús Tapia Santamaría, Docteur, École des Hautes Etudes en Sciences Sociales, Paris, 1982. Professor. Theory and methodology; sociology of culture; Sociology of Religion.

Félix López Román, PhD, Universidad Complutense de Madrid, 2016.

Jaime M. Pérez Rivera, PhD, University of Puerto Rico, Río Piedras, 2002.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Program Admission Requirements

In addition to meeting the general admission requirements for graduate studies at the Río Piedras Campus, they must meet the following:

1. Bachelor's degree (not necessarily in Sociology) from an accredited university.
2. Have passed the Sociological Theory and Statistics courses at the high school level.
3. Proficiency in Spanish and English.

4. Possess basic computer skills (Windows or Macintosh and a statistics program, such as SAS or SPSS).
5. Composite Academic Index weighted by:
 - a) General Grade Point Average.
 - b) Quality of a written work (monograph, essay or research work that you have done during high school).

Required Documents for the Application for Admission

1. *Application for Admission to Graduate Studies* in electronic format through the ApplyYourself platform.
2. Payment for the application fee.
3. Two official credit transcripts of studies completed up to the date of application.

GRADUATION REQUIREMENTS:

Comply with the general requirements for graduation from the Río Piedras Campus and with the Sociology Study Program.

PROGRAM OF STUDY:

Program Requirements	Credits
<i>Core Courses</i>	12
SOCI 6001 Theory Forum	3
SOCI 6002 Research Forum	3
SOCI 6008 Qualitative Methods	3
SOCI 6015 Quantitative Methods in Sociology	3
Master's Project²	8
SOCI 6801 Graduate Seminar I	3
SOCI 6802 Graduate Seminar II	3
SOCI 6911 Master's Project I	1

² Master's Project

The final master's project will be the production of a thesis, defined as a quality article that can be published in a peer-reviewed academic journal. To this end, it will also produce an annotated bibliography and a short proposal.

Program Requirements	Credits
SOCI 6912 Master's Project II	1
<i>Free Electives</i>	9
Total Credits	29

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

SOCI 6001 Theory Forum

Three credits. Three hours of seminar per week.

Seminar of reading and discussion on the most relevant social theories of current relevance, their intellectual lineages, the debates in which they are inserted, their impact on methodologies and their approaches to the objects of study. Each week one or more theoretical works will be read recommended by a professor who in turn will visit the seminar to present his or her lines of theorizing and research related to the assigned readings. Face-to-face, hybrid and online course.

SOCI 6002 Research Forum

Three credits. Three hours of seminar per week.

Pro-seminar discussion of the current research of the teaching staff, its theoretical bases, its methodological approaches and its empirical findings. Each week the group will read a paper by the teaching staff, participate in a discussion with the author and reflect on the reading in writing.

SOCI 6008 Qualitative Methods in Sociology

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

Systematic and practical study of the main qualitative methods in sociology. Emphasis on specific research techniques: interviews, participant observation, textual analysis, among others. Review of the methodological and epistemological bases.

SOCI 6015 Quantitative Methods in Sociology

Three credits. Three hours of lecture and two hours of laboratory time per week.

Prerequisite: Admission to the graduate program Study of descriptive and inferential statistics, computer programming techniques, and the management of databases for social analysis. Face-to-face, hybrid and online course.

SOCI 6801 Graduate Seminar I

Three credits. Three hours of seminar per week.

Corerequisite: SOCI 6911 Seminar of presentations and discussion on the processes of searching for sources and their bibliographic organization, the definition of the objects of study, the formulation of research problems and questions, the theoretical and methodological approaches, the ethical considerations and the writing of the thesis proposal. Emphasis on participation and effective communication in the group. Face-to-face, hybrid and online course.

SOCI 6802 Graduate Seminar II

Three credits. Three hours of seminar per week.

Prerequisite: SOCI 6801 Corequisites: SOCI 6912 Seminar of presentations and discussion of research designs, data collection techniques, methods of analysis, ethical protocols, the process of writing and reviewing drafts, and the final writing of the thesis. Emphasis on participation and effective communication in the group.

SOCI 6911 Master's Project I

A credit. One hour of tutoring per week.

Corerequisites: SOCI 6801 Tutoring in the search for bibliographic sources, the compilation of an annotated bibliography, the definition of the objects of study, the formulation of research problems and questions, possible theoretical and methodological approaches, ethical considerations and the writing of a thesis research proposal, defined as an article that can be published in a peer-reviewed academic journal.

SOCI 6912 Master's Project II

A credit. One hour of tutoring per week.

Tutoring in the research and writing of a thesis, defined as an article publishable in a peer-reviewed academic journal.

OTHER COURSE DESCRIPTIONS:**SOCI 5009 Critique of Science from a Gender Perspective**

Three credits. Three hours of lecture a week.

Prerequisite: 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.

SOCI 6005 Research Methods

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Study of the Scientific Method in Sociological Analysis. It poses the problem of scientific practice, its epistemology and its socio-historical context. It pays main attention to the construction of the object of study and the use of research techniques.

SOCI 6006 Complexity and Social Theory: Second-Order Cybernetics and Social Analysis

Three credits. Three hours of seminar per week.

Seminar-type graduate course aimed at examining in depth the implications that the emergence of new paradigms in science and knowledge, linked to second-order cybernetics, has for the theorization and examination of the social, as well as its meeting points with other contemporary theoretical currents. The seminar revolves around the discussion of a number of readings common to all participants, who in turn must select a topic to develop throughout the semester, in presentations to the group.

SOCI 6007: Theoretical Debates in Contemporary Sociology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program in Sociology or permission of the director Study of the historical development and current trends of advanced capitalist societies, the analysis of socioeconomic transformations and the State from the perspective of contemporary schools of sociological thought.

SOCI 6025 Peripheral and Dependent Social Formations

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program in Sociology or permission from the Director of the Sociology Program.

SOCI 6076 Historical Sociology of Race and Ethnicity

Three credits. An hour and a half of discussion and an hour and a half of seminar.

Race and ethnicity are two important concepts in sociology, as in other fields of knowledge. Both concepts are also very significant in the daily lives of human beings and their interactions in and through various social and historical formations. This course examines these concepts through a comparative and historical approach, and the construction of them, and the construction of them critically at a theoretical and conceptual level. It considers how the diverse understandings of race and ethnicity are located in relation to different knowledges, other concepts (class, nation), and social processes and dynamics (nationalism, racism, migration). The examination of these concepts, ideas, and dynamics is done by considering case studies and research in various regions and societies from, for example, the Caribbean and the Southern United States to Nazi Germany. The course is designed for a high level of discussion and debate, integrating theoretical knowledge with existing historical research, but at the same time interacting with students' research projects

and processes. (This course has HIST 6076 equivalent in the Department of History)

SOCI 6105 Theoretical and Practical Problems in the Analysis of Crime

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program in sociology or permission from the director Study of Debates Linked to the Analysis of Crime in Contemporary Societies.

SOCI 6107 Sociology of Economic-Social Development in the Caribbean

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Sociology Graduate Program or permission from the director Study of the state of economic and social development of the region in the context of the current crisis.

SOCI 6108 The Urban and the State

Three credits. Three hours of lecture a week.

Elaboration of interpretative frameworks of the contemporary state, as well as of the urban, focused on post-industrial societies.

SOCI 6109 Social Analysis in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program in Sociology or permission from the director Systematic study of the history of sociology and the trajectory of social analysis in Puerto Rico since the nineteenth century.

SOCI 6110 Migration and Marginality

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Be a master's student Critical reinterpretation of contemporary theories of migration with particular emphasis on the repetitive and circular population movement from, to, and between Caribbean countries, within a framework of cultural globalization. Emphasis on the analytical reevaluation of the concepts of community and identity for Puerto Rican society with a frame of reference that is not limited to the geographical boundaries of the island. Focus on social analysis, policy formulation and planning, recognising the central importance of population mobility in modern society. Theoretical paradigms are problematized beyond demographic theories, with particular attention to debates on marginality and its relationship with the concepts of community, nation and identity.

SOCI 6115 The Social Construction of Gender Relations

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the sociology graduate program or director's permission. An examination of recent theoretical approaches to analysing sexual differences and the social organisation of the functioning of men and women. Examination of specific controversies arising from these theoretical approaches.

SOCI 6116 Topics of Sociology

Three credits. Three hours of seminar per week.
Seminar focused on various current topics in sociology.

SOCI 6117 Migratory Movements and Populations in the Caribbean

Three credits. Three hours of lecture and discussion per week.
Analysis of the migratory flow to the Caribbean during the nineteenth century. The process of emigration to the United States and Europe and the migratory movement within the area during the twentieth century. Face-to-face, hybrid and online course.

SOCI 6118 Sociology of Meaning

Three credits. Three hours of lecture a week.
Introduction to the most relevant concepts of the theory of meaning in interpretive sociology. Traditions of the study of meaning that have had the greatest influence on the social sciences: analytical, structuralism, pragmatism, phenomenology, and hermeneutics. Influence of these approaches on interpretive and structuralist sociology. Topics discussed: relationship between language, thought and reality; the relationship between sign, signified and referent; meaning and truth; linguistic relativism; semantic holism; speech act theory; meaning as use.

SOCI 6125 Political Economy of Health Systems

Three credits. Three hours of seminar per week.
Critical analysis of the historical and social development of the various health systems from the perspective of political economy. Examination of professionalization, medical domain, medical-industrial complex, and medicalization.

SOCI 6126 Social Production of Health and Disease

Three credits. Three hours of lecture a week.
Critical analysis of the production and social construction of health and disease from a historical perspective. Examination of the links between the development of capitalist and socialist modes of production, the social context, and the distribution of infectious and chronic diseases.

SOCI 6135 Criminality and Everyday Life

Three credits. Three hours of lecture a week.
Exploration of the impact of the problem of criminality in the realm of everyday life in contemporary societies.

SOCI 6137 Social Movements

Three credits. An hour and a half of lecture and an hour and a half of discussion per week.
Critical examination of theories on social movements proposed in Europe, the United States and Latin America (the Caribbean and Puerto Rico) with different theoretical-ideological positions. Emphasis on the various ways of articulating the relationship between social movements and the state.

SOCI 6139 Intellectuals, Knowledge and Power

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate degree or authorization from the course teacher and the director. Study of the place of the intellectual's identity with respect to knowledge-power in his transition to the postmodern condition. Ideological representations, social belonging and the will to power in knowledge will be addressed.

SOCI 6145 Developmental Strategies in the Caribbean

Three credits. A few hours of lecture and two hours of discussion a week. Analysis of the models of industrialization and economic development implemented in the area and the impact of these processes on the formation of a new framework of the social and economic structure. Discussion of the main analytical perspectives (modernization, dependency, world systems, neoliberalism) that arise in uneven and combined development at the global level. Discussion and analysis of the theoretical and practical bases of the economic integration of the Caribbean in the context of the new international division of labor (i.e. globalization processes).

SOCI 6147 Subject, Movements and Contemporary Social Processes

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

The aim is to theoretically exalt the category of subject based on a reflection on the discursivity that accompanies the notion of the unitary subject, its crisis, as part of the project of modernity and the bourgeois political project. It contemplates a reflection on how this process configures new fields of theorization of the category of subject, in particular the notion of the decentered subject. The ways in which this debate affects the practices of the diversity of social movements, particularly those that are shaped by the politics of identities, are studied. Reflection on the relationships between debates about the subject and the diversity of contemporary social processes and their broad cultural and political references.

SOCI 6205 Independent Study

Three credits. Three hours of lecture a week.

Prerequisite: Teacher's permission Independent study of special topics according to the interests of the student and the teacher.



Mailing Address: 9 Ave Universidad Ste 901 San Juan PR 00925-2529 **Telephone extensions: (787) 764-0000, extensions** 87400, 87405, 87413 or 87419 **Fax:** (787) 763-4199

Email: consejeria.rehabilitacion@upr.edu **Portal:** <https://sociales.uprrp.edu/consejeria-rehabilitacion/>

DEGREE: Master's Degree in Rehabilitation Counseling

ACCREDITATION:

Council on Accreditation of Counseling and Related Educational Programs (CACREP)

TEACHERS:

Maribel Báez Lebrón, Ph.D., CRC, IPEC, CVE. University of Puerto Rico, 2012, Associate Professor. Rehabilitative counseling, vocational counseling, psychiatric rehabilitation; psychosocial adjustment of persons with disabilities, labor law, professional ethics, work and disability, ideologies of work, subjectivity of disability, job placement

Reinaldo Berríos, Ed. D., CPL. University of Puerto Rico, 1999. Professor. Professional counseling; professional ethics; development of spirituality; qualitative research; pediatric cancer; prostate cancer; development of vocational interests from a longitudinal perspective; happiness in Puerto Ricans; school and inequality in the aftermath of catastrophic events; Youth in Puerto Rico: Employment, Migration, and Public Policy

Maria L. Diaz-Porto Robles, Ph.D., CRC. University of Valencia, 2010. Associate Professor. Counseling in rehabilitation, psychosocial aspects of disability, psychiatric rehabilitation, group counseling, sexuality of the person with a disability, and therapeutic adherence.

Roberto L. Frontera Benvenuti, PhD, CRC. Texas A&M University, 1991, Associate Professor. Counseling in rehabilitation, special education, measurement, psychological and psychoeducational evaluation, developmental disabilities, intellectual disability, behavior modification, emotional intelligence, differentiated assessment, non-standardized assessment, and transition.

Lesley O. Irizarry Fonseca, PhD, CRC, CVE. University of Iowa, 2011, Associate Professor. Rehabilitation Counseling, Professional Ethics, Vocational Counseling, Vocational Assessment, Public Policy and Disability, Professional Identity, Reasonable Accommodation.

Raúl Rivera Colón, Ph. D., CRC, CVE. Inter-American University of PR, 2011, Associate Professor. Rehabilitation Counseling, Psychology Counseling; special education and transition of youth to adulthood; group counseling; psychosocial adjustment of persons with

disabilities; case management; vocational assessment; vocational counseling; sexuality of persons with disabilities; ethical aspects.

Gladys Soto Lopez , PsyD., DFCD, MRC, CRC. Doxa International University. Assistant Professor. Rehabilitation counseling; Domestic Violence, Group Counseling, Family Counseling, Crisis Intervention, Addiction Counseling.

Robinson A. Vázquez Ramos , PhD, CRC. University of Iowa, 2003, Professor. Rehabilitation counseling, rehabilitation statistics and research, evaluation in rehabilitation counseling, professional ethics, and psychosocial adjustment. Counseling in rehabilitation, psychosocial aspects of disability, psychiatric rehabilitation, group counseling, sexuality of the person with disabilities, therapeutic adherence, and health education.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Baccalaureate or its equivalent from a recognized university. Applications will only be considered from applicants who have completed their Baccalaureate degree before the start of enrollment for the semester for which they are applying for admission.
2. Overall academic index of 3.00 on a scale of 4.00. The School may grant conditional admission to students with a general Baccalaureate index of 2.75 or higher that, when combined with their specialty index, results in 3.00.
3. Basic course in Statistics or Scientific Research or its equivalent.
4. Nine (9) credits in courses on human behavior with an overall grade of not less than "B."
5. Motivation to work with people with disabilities.
6. Interview with two doctors of the program in which a writing exercise is included aimed at evaluating the written expression skills of the applicants.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format (ApplyYourself)
2. An official credit transcript with degree.
3. Degree Certification
4. Essay on how your interest in the professional field originated.

GRADUATION REQUIREMENTS:

Students must meet the following requirements to receive the Master's degree in Rehabilitation Counseling:

1. Pass the Degree Exam
2. Pass a total of 60 credits.
3. Maintain an index of no less than 3.00 points in each academic semester.
4. Maintain ethical conduct and a favorable attitude toward serving persons with disabilities.
5. Complete all requirements within a period of no more than four years from the date of admission.

Once the student completes his/her Master's Degree in Rehabilitation Counseling, he/she must abide by the provisions of Law 58 of 1976. To practice Rehabilitation Counseling in Puerto Rico, you must pass the revalidation exam of the Board of Examiners of Rehabilitation Counselors and become a member of the Association of Rehabilitation Counseling Professionals.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	46
CORE 6001- Seminar on Medical and Psychosocial Aspects of Disability	3
CORE 6002 - Seminar on Psychosocial and Psychiatric Aspects of Rehabilitation	3
CORE 6003 – Functional Capacity for Employment and Independent Living Diagnosis	1
CORE 6005 - Seminar on Psychometrics and Evaluation in Rehabilitation	3
CORE 6006 - Seminar on Scientific Research and Evaluation of Rehabilitation Programs	3
CORE 6007- Fundamentals of Rehabilitation Counseling	3
CORE 6008 - Seminar on Occupational Information and its Application to the World of Employment	3
CORE 6011 - Principles and Techniques of Rehabilitation Counseling I.	3
CORE 6012 - Principles and Techniques of Rehabilitation Counseling II.	4
CORE 6016 - Seminar on Techniques for the Evaluation and Placement in Employment of People with Functional Diversity	3
CORE 6017 - Practicum in Rehabilitation Counseling	2

Program Requirements	Credits
CORE 6020 – Human Development and Rehabilitation of Persons with Developmental Disabilities	3
CORE 6035 – Group and Family Counseling	3
CORE 6039 – Reasonable Accommodation in Employment	1
CORE 6052 – Multicultural Counseling	2
CORE 6053 – Crisis Intervention, Trauma Management, and Protective Techniques	2
CORE 6054 – Case Management and Professional Ethics	3
CORE 6060 – Independent Living: Philosophy, Legislation and Services	1
Boarding school	10
CORE 6090 - Rehabilitation Counseling Internship and Professional Integration Seminar (Day Program) or CORE 6091-92 Rehabilitation Counseling Internship and Professional Integration Seminar (Evening Program)	10
Elective Courses	4
CORE 6051 – Technology Support	1
CORE 6056 – Managing the Disabled Person in a Disaster	1
CORE 6059 – Recovery Models for People with a History of Substance Use Addiction	1
CORE 6995 – Independent Study	1-3
CORE 6900 Degree Exam	0
Total Credits	60

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

CORE 6001 Seminar Medical Aspects of Disability and Rehabilitation

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

Comprehensive study of the functions and services of medicine and psychiatry in the field of rehabilitation. The student is familiarized with medical-psychiatric terminology and with the diagnostic, evaluative and therapeutic procedures used in rehabilitation. In addition, clinical instruction in various fields of medicine is offered as a means of learning about disability-related diseases. The effects of diseases and accidents on the total functioning of the individual, their occupational adjustment, and the emotional and social implications of the medical disabilities studied are also studied. The student is guided on the need to work in coordination with other members of the rehabilitation team.

CORE 6002 Seminar on Psychosocial and Psychiatric Aspects of Rehabilitation.

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

Study of the development and normal and pathological behavior of the individual. Students are trained in the use of medical-psychiatric diagnostic terminology and the management of the diagnostic and statistical manual of the most common mental disorders in Puerto Rico. The basic processes of treatment and their use in the individual's rehabilitation process are discussed. The individual, family, multicultural and social effects associated with the development of psychopathology in Puerto Rico are also considered. Students are trained in the use of teamwork models in the rehabilitation process to achieve a better psychological, family, social and vocational adjustment.

CORE 6003 Functional Capacity Diagnosis for Independent Living and Employment

A credit. Three hours per week for a period of five weeks for a total of 15 hours.

Prerequisite: CORE 6001, 6002, 6005, 6008 AND 6011 Correct: CORE 6016 The course presents the diagnosis of functional capacity (DCF) as an essential task within the practice of counseling in rehabilitation and forensic rehabilitation. The International Functioning, Disability and Health Classification System (ICF) is presented as a tool to determine functional capacity for independent living and employment. This system provides for the analysis of functionality from a biopsychosocial perspective using evidence-based practice. Emphasis is placed on the importance of DCF in promoting well-being from a holistic perspective, preventing the development of secondary conditions, development of service plans and public policy.

CORE 6005 Seminar on Psychometrics and Evaluation in Rehabilitation.

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

This seminar will provide students with essential knowledge about psychological measurement. Students will apply the core concepts of test construction and observations of the behavior of hypothetical clients in the interpretation of tests that measure various behaviors and constructs typical of the field of rehabilitation of people with functional diversity. Students will identify criteria for making an appropriate evaluation referral and will learn to interpret qualitatively and quantitatively the results of evaluation reports from various professionals in the field of rehabilitation. You will become familiar with psychological and vocational exams available to the Puerto Rican population. The challenges presented by psychological measurement in Puerto Rico will be discussed, with particular emphasis on the field of Rehabilitation Counseling, including the need for reasonable accommodation in the evaluation processes of people with functional diversity and the ethical implications of non-standardized evaluation. The main method used in teaching will consist of workshops and activities aimed at the development of skills in evaluation and interpretation supervised by the teacher.

CORE 6006 Seminar on Scientific Research in Rehabilitation.

Three credits. Three hours of seminar per week.

The seminar provides experiences for students to develop critical thinking and recognize the importance of statistical procedures, research design, and evidence-based practices as essential tools in the field of rehabilitation counseling. Through the topics discussed in the seminar, students recognize the value of applying scientific knowledge in their professional training, program evaluation, and in the presentation of services to populations with functional diversity. Similarly, students will be exposed to academic-research experiences that allow them to apply the ethical-legal and cultural components that regulate the participation of human beings in research. Learning experiences include group discussions, oral presentations, critical analysis of unpublished and published research, as well as the presentation of a research project, in a climate of collaboration and feedback with the professor.

CORE 6007 Fundamentals of Rehabilitation Counseling

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student The seminar discusses the paradigms of rehabilitation, its historical and philosophical background, as well as legislation that protects the rights of people with functional diversity. Service delivery systems are studied. Students will present critical analyses on aspects related to the professional identity and ethical conduct of rehabilitation counselors. Evaluates the role and functions of the rehabilitation counselor in the service of people with functional diversity.

CORE 6008 Seminar on Occupational Information and its Application to the World of Employment

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

The course aims to examine the different theoretical approaches to vocational selection and career development. In a similar way, it attempts to explore and analyze the implications of each of the theories discussed in the vocational development of the person with disabilities or functional diversity. The topics include knowledge of the occupational world, educational facilities, socioeconomic projections, and the use of this information in individual and group career counseling. The course places special emphasis on the study and use of the Dictionary of Occupational Titles (DOT) and "O'Net" in the occupational information process. In addition, the psychosocial, economic, and ecological factors that influence the selection and vocational adjustment of people with and without disabilities are discussed and analyzed. The main focus of the seminar is to raise awareness among graduate students so that they understand and promote the nature of vocational development as part of the integral development of the human being and recognize the value of this concept in counseling programs in schools, rehabilitation facilities, and in the community.

CORE 6011 Principles and Techniques of Rehabilitation Counseling I

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

This seminar discusses the philosophical and psychological approaches that give rise to models of therapeutic counseling that promote the study of human behavior. Various psychological theories are analysed in terms of the service provided to people with functional diversity. The intervention techniques inherent in these theories are discussed; as well as relevant scientific findings. The analysis of such theories is deepened with the purpose of stimulating in the student the future development of a conceptually and scientifically supported style of intervention, which responds to the ethical principles of the discipline and stimulates a self-reflective attitude. The teaching method requires the stimulation of critical thinking and the scientific method is applied to a theoretical questioning of interest.

CORE 6012 Principles and Techniques of Rehabilitation Counseling II

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

Prerequisite: CORE 6011 This seminar develops clinical skills in interviewing techniques and a comprehensive discussion of the therapeutic counseling process in rehabilitation. Based on the professional and scientific literature, as well as the practice of simulated clinical interviews, the student will refine his/her skills in conceptualizing the problem presented, achieve a dynamic understanding of the participant's behavior, and develop basic intervention skills. The course will promote an attitude of self-criticism, professional reflection and ethics in the use of therapeutic counseling interventions in rehabilitation.

CORE 6016 Seminar on Techniques for the Evaluation and Employment of People with Functional Diversity

Three credits. Three hours of seminar per week.

Prerequisites: CORE 6008 and CORE 6005 The course discusses vocational assessment techniques and determination of readiness for employment. Aspects of counselling related to work and placement modalities are discussed. In addition, through fieldwork and research, emphasis is placed on occupational analysis, labor market study, and other aspects related to the employability, placeability, and job adjustment of people with disabilities. Aspects such as the use of technological assistance and reasonable accommodation in job placement and retention processes are discussed. Emphasis is placed on the role and responsibility of the counselor/evaluator and counselor/placement in the process of evaluation and placement of the person with functional diversity.

CORE 6017 Practicum in Rehabilitation Counseling

Two credits This course will provide clinical experience that will help hone basic case management skills from rehabilitation counseling to internship preparation. It will also allow students to gain experience in the application of counseling theories and models in the rehabilitation process of people with disabilities. It will also help the student to know the importance of a professional practice based on ethics. Through observation of initial and follow-up interviews, in community rehabilitation service offices, the student will be exposed to persons with disabilities and service delivery systems. That experience will help you hone

your case conceptualization skills, including evaluating and recommending reasonable accommodations, determining residual/functional capacity, consulting, advocacy, as well as transition and independent living services. The student will begin to integrate the knowledge acquired in the academic content courses with the practice of the profession.

CORE 6020 Human Development and Rehabilitation of Persons with Developmental Disabilities

Three credits. Three hours of seminar per week.

The course will provide students with essential and practical knowledge about the process of human development throughout life with an emphasis on the rehabilitation of people with developmental disabilities. Students will apply and adapt theories of human development to the particularities of people with developmental disabilities. Particular importance will be given to intervention with children and adolescents in the school/university environment and to the processes of inclusion, transition and reasonable accommodation. Students will be exposed to conditions typically classified as developmental impairments, the psychosocial adjustment of the individual and family, relevant legislation, and the provision of services for this population. Inter- and transdisciplinary intervention models will be analyzed and applied within the framework of the comprehensive rehabilitation process, which in turn will be sensitive to diversity.

CORE 6035 Group and Family Counseling

Three credits. Three hours of seminar per week.

The Seminar highlights the importance of group work as a therapeutic resource. The group process is presented from an evolutionary or staged perspective in which each stage fulfills a mission or purpose in the helping process. The behavior of the members is analyzed through the stages of development of the group and the functions of the leader in each. During the course, ethical and diversity dilemmas in group and family counseling are discussed. Students also have the opportunity to study and apply the group therapeutic process through various teaching strategies.

CORE 6039 Reasonable Accommodation in Employment

A credit.

The course presents the historical background and legislation that impacts the reasonable accommodation processes. The current one will discuss reasonable accommodation as a resource to improve the quality of life and integrate people with functional diversity into employment. We will work with the different strategies in the development of a reasonable accommodation plan. This course will be offered in face-to-face, hybrid and online modalities.

CORE 6052 Multicultural Counseling in Rehabilitation

Two credits. Three hours of lecture a week.

Prerequisites: CORE 6012 The course presents the historical background of diversity, demographic changes, and social dynamics that impact counseling processes. It seeks to foster the development of multicultural counseling competencies through self-awareness of biases, beliefs, values, and attitudes that may impact counseling processes. Students will

be exposed to current issues and constructs of diversity such as culture, national origin, language, physical appearance and ability, sexual orientation, spirituality, socioeconomic status, among others. This course will be offered face-to-face, hybrid, and online.

CORE 6053 Crisis Intervention, Trauma Management, and Protective Techniques

Two credits. Three hours of lecture a week.

Prerequisite: CORE 6011 and CORE 6012 The course will provide the student with the opportunity to explore various topics related to traumatic events and crises at different stages of life. A variety of topics can manifest within crises including: grief, suicide, homicide, psychosis, natural disasters, man-made disasters, and the person's coping mechanisms with the diversity of situations they face. They will be exposed to various evidence-based crisis intervention models in order to acquire skills to manage risk situations to which they may be exposed in the professional scenario. The student will have the opportunity to prepare in a controlled environment with the purpose of knowing strategies in the management of emotions, use of protective techniques and at the same time to escalate situations to avoid violence with clients, consumers, participants or patients.

CORE 6054 Case Management and Professional Ethics

Three credits. Three hours of seminar per week.

Prerequisites: CORE 6001, CORE 6002, CORE 6005, CORE 6006, CORE 6008, CORE 6011, CORE 6012, CORE 6016, CORE 6020 AND CORE 6035.

This course is designed to provide an overview of case management practices and rehabilitation services in the vocational rehabilitation system, in private practice, as well as in other settings that provide counseling services to individuals with disabilities. The work of case management as a critical component of the role of the rehabilitation counselor and the ethical dilemmas that the professional may face are discussed. The Code of Ethics of the Puerto Rico Board of Examiners of Rehabilitation Counselors and some ethical decision-making models are critically examined in order to apply them in various situations. The course will explore the role of the rehabilitation counselor in developing and maintaining effective working relationships, addressing case management situations, time management and organization, conceptualization analysis, case documentation, coordination, and planning.

CORE 6060 Independent Living Seminar: Philosophy, Legislation, and Services

A credit. Three hours of seminar per week.

Prerequisites: CORE 6001, CORE 6002, CORE 6007, AND CORE 6011.

This seminar will provide students with essential knowledge about independent living services as an integral part of rehabilitation goals for individuals with significant disabilities. The philosophical, legal, and theoretical components of the independent living movement will be analyzed in order to understand the programmatic and practical basis of service programs. The most commonly used assessment instruments to assess the need for independent living services will be discussed. The student will be introduced to the

statewide structure of independent living services. The student will identify and analyze the challenges that people with disabilities often face in their process of social reintegration, community life, interdependent life, autonomy, self-advocacy, and self-determination. The main method used in teaching will consist of workshops and activities aimed at developing critical analysis of independent living services.

CORE 6090 Internship in Rehabilitation Counseling and Professional Integration Seminar

Ten credits.

Prerequisite: CORE 6017 This course exposes the student to a supervised practice experience on the different aspects of the process of helping the person with a disability or special needs of a physical, mental, emotional and social. se is carried out in rehabilitation facilities, as well as in other institutions and programs that provide services to this population. It will comprise a minimum of 600 hours, of which 240 hours are direct service.

CORE 6091- 6092 Rehabilitation Counseling Internship and Professional Integration Seminar

Five credits.

Prerequisite: CORE 6017 This course is a supervised practice experience through which the student is exposed to the various aspects of the process of helping the person with a disability or special needs. The nature of such impairments or needs may be physical, mental, emotional, or social. It also offers you the opportunity to apply the theoretical knowledge you have learned. The experience will take place in rehabilitation facilities, as well as in other institutions and programs that provide services to persons with disabilities and populations with special needs, at high risk of developing disabilities, or among which there may be undiagnosed impairments. The experience will comprise a minimum of 300 hours, equivalent to 5 academic credits of which 120 hours are direct service. This practice experience will be supervised by a faculty member with the Certified Rehabilitation Counselor credential.

CORE 6051 Technological Assistance in Rehabilitation Processes

A credit. Three hours of lecture a week.

The course presents the historical background and legislation that impacts the processes of recommending and using technological assistance (TA). Technological assistance will be discussed as a resource to improve the quality of life and integrate people with functional diversity in employment, school and the community in general.

CORE 6056 Managing Persons with Disabilities in a Disaster

A credit. Three hours of lecture a week.

The course deals with rehabilitation counseling and its *raison d'être* in intervening with the at-risk population in a natural or man-made disaster scenario. It also deals with the ministerial duty of this professional to carry out various interventions with the population before, during and after the event, as established by the Accrediting Agency (CACREP) and

the Codes of Ethics that govern the profession (PR and CRC Examination Board).

CORE 6059 Recovery Models for People with a History of Substance Use Addiction

A credit. Three hours of seminar per week.

The course deals with the recovery process of the person diagnosed with a substance use disorder (licit and illicit). Emphasis is placed on the basic concepts, terminology, neurobiological foundations of addiction, levels of treatment, the process of recovery, deinstitutionalization and social insertion, and strategies for the management of the problems associated with substance use. The Module discusses the basic concepts and terminology associated with substance use disorder, abuse, and substance induced disorder as described in DSM V.

CORE 6995 Independent Studio

Three credits. Three hours of lecture a week.

Study of a topic of student preference in the field of rehabilitation counseling. The selected topic should be investigated from a theoretical and research perspective. Emphasis will be given to the development of advanced knowledge in the selected topic.

OTHER COURSE DESCRIPTIONS:

CORE 6018 Modalities of Placement of Emergents: Solidarity Self-Management with and Without Support

A credit. One hour of lecture per week.

Prerequisite: CORE 6008 Emerging placement modalities are discussed in the course.

These include solidarity self-management with or without support for the population with functional diversity in Puerto Rico in the industrial, manufacturing and service sectors.

Emphasis is placed on occupational analysis, the study of the labor market and other aspects related to the employability, placeability and adjustment to work of persons with disabilities under these placement modalities using the performance management system.

CORE 6028 The Rehabilitation of the Drug Addict

Three credits. Three hours of lecture a week.

Basic guidance is provided on the problem of drug addiction, both in Puerto Rico and internationally. The results of this disease in an individual are analyzed, emphasizing the harmful effect of drugs on the body, their pharmacological properties, implications of the misuse or abuse of drugs from the legal point of view and their detrimental effects on the vocational and employment area of the individual. The student is familiarized with the social and psychological conditions that promote drug abuse. The rehabilitation process to be offered to this type of disabled person is analyzed in detail, including existing treatments and facilities offered in the community.

CORE 6029 The Rehabilitation of the Confined.

Three credits. Three hours of lecture a week.

The purpose of this course is to present the inmate as a person who suffers from some emotional conflict or behavioral disorder. Through the use of social information, the previous individual development is studied, in the light of different theories on delinquency to social deviance. Corrective methods and prevention and rehabilitation programs existing in the community and the role of the rehabilitation counselor are also discussed.

CORE 6040 The Sexuality of the Person with a Disability

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission A holistic perspective on the sexuality of the person with disabilities and the sexual counseling process. An evolutionary view of the concept of sexuality and disability will be offered; as well as etiology, dysfunctions and counseling related to the sexual area.

CORE 6041 Models of Ethical Decision Making in Counseling in Rehabilitation.

A credit. One hour of lecture, one hour of discussion and one hour of workshop per week.

Prerequisite: CORE 6007, CORE 6011, CORE 6012 This course addresses the ethical decision-making processes and critical thinking skills that rehabilitation counselors should cultivate. The student is taken on a journey from the theoretical-conceptual principles and issues involved in ethical reasoning to the practical considerations that lead to ethical decision-making in rehabilitation counseling. The course focuses on ethical decision-making in rehabilitation counseling and the importance of applying the principles of autonomy, beneficence, non-maleficence, justice, faithfulness, and truthfulness when reflecting on each ethical issue that arises. It critically examines the code of ethics of the Puerto Rico Rehabilitation Counseling Board of Examiners and a variety of ethical decision-making models for the purpose of applying them in various situations that the rehabilitation counseling professional may face.

CORE 6042 Transition of the Person with Functional Diversity from School to Adult Life

A credit. One hour of lecture, one hour of discussion and one hour of workshop per week.

Prerequisites: CORE 6007, CORE 6005, CORE 6008 This course provides students with a conceptual framework for understanding the philosophy and principles that guide transition services in rehabilitative counseling. As a result, students will articulate the fundamentals of interdependence, inclusion, self-determination, empowerment, access, and respect for individual differences. Legislation, taxonomy, standards, and public policies associated with transition services are critically examined. Models for transition and person-centered transition planning are studied and analyzed. The course also emphasizes the importance of collaboration among practitioners to ensure a successful transition. Students are expected to use their knowledge through discussion and critical analysis of readings, the design of a transition model, and transition plans.

CORE 6048 Independent Living: Alternative Rehabilitation for Persons with Severe Disabilities.

Three credits. Two hours of lecture and one hour of visits outside the facilities of the U.P.R.

Study of people with severe disabilities, emphasizing the models and services of independent living available to ensure that they can enjoy a full, productive and independent life. In addition, the importance of assistive technology services for this population and the rehabilitation process of people with severe disabilities is presented and discussed.

CORE 6050 Reasonable Accommodation and Technological Assistance in Rehabilitation Processes.

Three credits. Three hours of lecture a week.

The course presents the historical background and legislation impacting the processes of reasonable accommodation and the use of assistive technology. The current study analyzes reasonable accommodation and technological assistance as resources to improve the quality of life and integrate people with functional diversity into employment, school and the community in general. In addition, different strategies are applied in the development of a reasonable accommodation plan, incorporating the use of technological assistance as part of the plan.

CORE 6085 Professional Ethics

Three credits. Three hours of seminar per week.

Prerequisite: CORE 6007 and CORE 6011 - 6012 It is intended to help the student understand the Codes of Ethics that govern their profession. Ethical principles and professional controversies pertinent to the counseling relationship and clinical records will be discussed. The ethical principle of Confidentiality and its legal concomitants related to Privileged Communication and the Obligation to Warn will be extensively analyzed. Ethical issues related to disability and AIDS will also be discussed.

CORE 6095 Consulting and Advocacy in Rehabilitation Processes

Three credits. Three hours of lecture a week.

The course provides for the development of analytical and critical thinking skills. During the course, available literature in the areas of consulting and advocacy is analyzed. The teacher provides feedback on the work presented in class orally and in writing. The course also provides the opportunity for students to develop basic skills in the processes of consulting and advocacy through projects in the community.



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Director: Dr. Lilian Albite Vélez **Master's Graduate Program**

Coordinator: Dr. Elithet Silva **Telephone extensions: (787)**

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<http://sociales.uprrp.edu/egts/>

DEGREE: Master of Social Work

Accreditations: Council on Social Work Education

TEACHERS:

Lilliam Albite Vélez, PhD, University of São Paulo, University of Port Rich 2005, Professor.
of São Paulo, University of São Paulo, University of São Paulo, University of São Paulo, University of São Paulo, University of

Esterla Barreto Cortés, PhD, Brandeis University, 1999, Professor. *Participatory social research; social policy analysis; race; oppression and diversity.*

María de Lourdes Martínez Avilés, PhD, University of Texas and Universidad Autónoma de Nueva León, 2011, Assistant Professor. *Community. Substance abuse, Latina woman, colonialism.*

Jannette Rodríguez Ramírez, PhD University of Puerto Rico, 2008. Assistant Professor. *Social Policy Evaluation, Social Science Statistics, Population Studies*

Angelica Varela Llavona, PhD, Ohio State University, 1981, Associate Professor. *Management; proposal development.*

Elithet Silva Martinez, PhD. University of Iowa, 2009, Assistant Professor. *Intervention models in family, women and gender, social research methods.*

Hilda P. Rivera Rodríguez, Columbia University, 2000, Assistant Professor. *Administration of social policy, social welfare, models of intervention in the family.*

MASTER'S DEGREE IN SOCIAL WORK:

The Master's Program is accredited by *the Council on Social Work Education* and the Puerto Rico Board of Education. Its objective is to train social work professionals with the theoretical,

analyze the social, economic, political and cultural dimensions present in their professional action and with the theoretical-practical competence to critically use theories, models and strategies in their professional action that stimulate individual and collective empowerment and transformation. It prepares students to enter professional practice from three areas of emphasis: Social Program Administration, Family Social Work, and Community Social Work.

The Master's Program has a generalist core curriculum and an advanced curriculum that allows students to competently apply specific methodologies within the field of social work. The Master's Program has two programs of study: the **Regular Program** and the **Accelerated Program**.

The Regular Program is aimed at students who have a bachelor's degree in disciplines other than social work and those from an accredited bachelor's degree in social work who do not qualify to enter the accelerated program. Completing this program takes from 2 years full-time to 3 1/2 years part-time (minimum).

The Accelerated Program is intended for students who hold a bachelor's degree in social work from a program accredited by the *Council on Social Work Education*. Its objective is to make it easier for people who qualify for it to complete their Master's degree without the need to repeat core content of the discipline. This program reduces the time needed to complete degree requirements to one and a half (1 1/2) years if the student enrolls full-time and to two and a half (2 1/2) years if enrolling part-time. The decrease in the time needed to complete the requirements is due to the reduction of the number of credits required to obtain the Master's Degree in Social Work from 54 to 42.

In both, the curriculum can be full-time or part-time. For both, there are the same three curricular components: courses, supervised practice and thesis. Regardless of the program in which he/she enrolls, each student selects in his/her first semester of studies one of the three areas of interest of professional practice that stand out in the curriculum: Social Work with Families, Community Social Work and Administration of Social Programs. The years required to complete the master's degree depend on the program of study and whether you study full-time or part-time.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

Regular Program*

1. Baccalaureate or its equivalent from a recognized university.
2. Have an academic index of 3.00 on a 4.00 scale.
3. Have passed courses in each of the following areas of liberal arts or general education: Mathematics and Natural Sciences (mathematics, statistics, physical sciences, or biological sciences), Humanities (Spanish, English, history of Puerto Rico and another course in the humanities), Social Sciences (sociology, psychology, and two other courses in the social sciences). Liberal Arts courses must total 36 credits.
4. If necessary, you may be summoned to an interview with the Admissions Committee.

Accelerated Program*

1. Have acquired a bachelor's degree in social work from a university accredited by the *Council on Social Work Education* (CSWE) with an academic index of 3.00 on a scale of 4.00.
2. Have passed courses in each of the following areas of liberal arts or general education: Mathematics and Natural Sciences (mathematics, statistics, physical sciences, or biological sciences), Humanities (Spanish, English, history of Puerto Rico, and another course in the humanities), Social Sciences (sociology, psychology, and two other courses in the social sciences). Liberal Arts courses must total 36 credits.
3. Have satisfactorily passed supervised practical instruction at the undergraduate level.
4. If necessary, you may be summoned to an interview with the Admissions Committee.

*The School will admit applicants from other countries in accordance with the provisions of the University of Puerto Rico. They will not have to take the Puerto Rican History course. Two official copies of credit transcripts, an essay, and an undergraduate course in statistics will be required. The international student (foreigner who needs a visa) has a deadline to apply of December 3 of the year prior to starting their master's studies.

Required Documents for the Application for Admission

1. *Application for Admission to Graduate Studies* in electronic format (*ApplyYourself*).
2. Two official credit transcripts.
3. Two letters of recommendation from professors
4. Writing a short essay on a topic of particular interest to the social work profession as determined by the Admissions Committee.

GRADUATION REQUIREMENTS:

In addition to meeting the general admission requirements for graduate studies at the Río Piedras Campus, they must meet the following:

1. In the regular program, each student must pass a minimum of 54 credits, which include theoretical courses, practical instruction and thesis. To pass practical instruction, you must complete a minimum of 900 hours of daytime practice. Students in the accelerated program will pass a minimum of 42 credits, the thesis and 600 hours of hands-on daytime instruction. **
2. Maintain a required minimum retention rate of 3.00 points at the end of the first and second semesters of the first academic year.
3. Maintain an overall GPA of 3.00 points or higher upon completion of all coursework and other graduation requirements.
4. Have met all requirements of their area of specialty (required courses, electives, hands-on instruction).
5. Have satisfactorily presented, before representatives of the Faculty and the community in general, an original research as a Thesis for the Master's degree.

**The total number of credits approved at another institution and that may be validated will not exceed one third (18) of the credits required by the program. To be accepted, these credits must have been completed in a duly accredited program, have not been used to complete an academic degree, and their content will be evaluated by the program.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	21
TSOC 6006 Social Research from Social Work	3
TSOC 6055 Social Reality Analysis	3
TSOC 6057 Comparative Analysis of Theories of Human Behavior	3
TSOC 6065 Analysis of Social Welfare Policy and Services	3
TSOC 6091 Advanced Professional Practice in Social Work I (Individuals and Families)***	3
TSOC 6092 Advanced Professional Practice in Social Work II (Community)***	3
TSOC 6093 Advanced Professional Practice in Social Work III (Administration of Social Programs)	3

Program Requirements	Credits
Professional Emphasis Area Courses	12
<i>Hands-On Instruction Courses</i>	9
TSOC 6021 Supervised Practical Instruction I: Generalist ***	3
TSOC 6027 Supervised Practical Instruction II	3
TSOC 6028 Supervised Practical Instruction III.	3
<i>Elective</i>	6
Thesis	6
TSOC 6131 Social Research Seminar and Thesis I	3
TSOC 6132 Social Research Seminar and Thesis II	3
TSOC 6896 Research Seminar and Thesis III	0
Total Credits	54

These courses are not accelerated program requirements.

Professional Areas of Emphasis Social Work with Families

Program Requirements	Credits
TSOC 6095 Theory and Methodology of Social Work with Families I	3
TSOC 6165 Theory and Methodology of Social Work with Individuals	3
TSOC 6152 Theory and Methodology of Social Work with Families II	3
TSOC 6146 Theory and Methodology of Small Group Social Work	3
Total Credits	12

Community Social Work

Program Requirements	Credits
TSOC 6097 Community Development and Processes	3
TSOC 6108 Policy Process and Community Social Action in Social Work Practice	3
TSOC 6126 Social Work with Community Groups	3

TSOC 6327 Social Work in the Promotion of Local Economic Development	3
Total Credits	12

Administration of Social Programs

Program Requirements	Credits
TSOC 6099 Management in the Organizational Context of Social Programs	3
TSOC 6229 Supervision in Social Work	3
TSOC 6117 Social Work with Groups in the Administration of Social Programs	3
TSOC 6288 Program Evaluation and Proposal Development	3
Total Credits	12

Full-Time Accelerated Program

FIRST YEAR - FIRST SEMESTER		
TSOC 6055	Social Reality Analysis	3
TSOC 6006**	Social Research in Social Work (Directed Elective Course)	3
TSOC 6057	Comparative Analysis of Theories of Human Behavior	3
TSOC 6093	Core Professional Practice in Social Work III (Administration)	3
TSOC 6065	Analysis of Social Welfare Policy and Services	3
FIRST YEAR - SECOND SEMESTER		
TSOC 6027	Advanced Professional Practice in Social Work II	3
TSOC 6131	Research Seminar and Thesis I	3
TSOC ____	Area of Emphasis Required Course	3
TSOC ____	Area of Emphasis Required Course	3
TSOC ____	Area of Emphasis Required Course	
SECOND YEAR - THIRD SEMESTER		
TSOC 6132	Research Seminar and Thesis II	3
TSOC 6028	Advanced Professional Practice in Social Work III	3
TSOC ____	Area of Emphasis Required Course	3
TSOC ____	Elective Course	3
TSOC ____	Elective Course	3
TOTAL: 42 CREDITS		

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

TSOC 6006 Social Research from Social Work

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

Prerequisite: Be admitted to the School.

It provides the student with the fundamental knowledge of quantitative and qualitative research in social work. Quantitative research discusses the positivist paradigm, problem formulation and hypothesis, sampling, design, and methods of data collection and analysis. Qualitative research includes the constructivist paradigm, problem formulation, designs, data collection methods, and qualitative analysis.

TSOC 6055 Social Reality Analysis

Three credits. Three hours of lecture a week.

Critical and reflexive study of the macrostructure in the economic, political and social order. Analysis of the economic development model, economic, political and psychological dependence, as well as its impact on social policy and the quality of life of oppressed and vulnerable groups in society. Elaboration of a diagnosis of the Puerto Rican social reality and alternatives for change.

TSOC 6057 Comparative Analysis of Theories of Human Behavior

Three credits. Three hours of lecture per week: Critical and comparative analysis of theories of human behavior from different perspectives in their applicability to the professional context and their relevance to the development and analysis of social policy, emphasizing the preventive and interdisciplinary aspect. Research and literature pertinent to the Puerto Rican social reality will be analyzed.

TSOC 6065 Analysis of Social Welfare Policy and Services

Three credits. Three hours of lecture a week.

Study of the conceptual, theoretical and methodological basis for the analysis of social welfare policy and services. Critical examination of explanatory theses on the origin of social policies, approaches to the social welfare system and the growing intervention of the State in this area. Study of the types of analysis of social policy with emphasis on scientific research.

TSOC 6091 Professional Practice in Social Work I (Ind. & Fam.)

Three credits. Three hours of lecture a week.

This is one of seven core courses in the Master of Social Work program and the first in a three-course sequence on Advanced Professional Practice. It is focused on the discussion and analysis of theoretical and conceptual frameworks that guide and support intervention with various human systems: individuals, families and groups. She is interested in deepening knowledge and refining skills to define issues, needs, gather and weigh

information, plan and hire, identify intervention alternatives, select and implement appropriate courses of action, and use research to evaluate processes and their outcomes. The aim is to give particular attention to preventive intervention, with particular emphasis on interdisciplinary work. The student will have the opportunity to examine and critically analyze models of direct intervention that can be used with human systems (individuals, families, and groups).

TSOC 6092 Core Professional Practice in Social Work II (Community)

Three credits. Three hours of lecture a week.

Second year of the Advanced Professional Practice in Social Work sequence. It examines a variety of aspects of community organizing in the historical context of community work in Puerto Rico, highlighting the role of social work in this process. A diversity of theoretical foundations are applied to intervention models that promote the capacity of the community to improve their living conditions through participation and concerted efforts in those matters that impact them. Intervention models, such as community development, planning and social action, applied to geographical and functional communities are presented. The relevance of these in working with oppressed and vulnerable sectors is critically analyzed. Emphasis is placed on people's participation in decision-making, self-management, empowerment and leadership processes. The roles of the practitioner and collaboration with other professions are clarified.

TSOC 6093 Core Professional Practice in Social Work III (Administration of Social Programs)

Three credits. Three hours of lecture a week.

This is the third course in the introductory sequence to the concept of Advanced Professional Practice in Social Work at the graduate level. In Puerto Rico, professional practice has been in a process of change from a majority practice in government settings to the rise of positions in non-governmental organizations and autonomous practice where the social worker is its employer. This course provides the student with the opportunity to critically examine and analyze social administration from different philosophical, theoretical, and conceptual paradigms; as well as controversies that arise such as diversity in its broad form. It is intended that the student is able to understand the need to exercise a transformative professional leadership that contributes towards a competent organization and that administration in social work is part of the practice. Human services professional committed to individual, group, communal, and social transformation.

TSOC 6021 Practical Instruction in Social Work I

Three credits.

Prerequisite: Core Courses.

A laboratory-like experience whose purpose is to integrate classroom knowledge and offer the student the opportunity to engage with the programs and services of various practice centers.

TSOC 6027 Advanced Practical Instruction in Social Work II

Three credits. Three hours of lecture a week.

Prerequisite: TSOC 6021 and director's permission.

Professional intervention in more complex situations of vulnerable and oppressed groups from a scientific perspective. Critical analysis of social policies that impact these groups and of action for change.

TSOC 6028 Advanced Practical Instruction in Social Work III

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

Prerequisite: TSOC 6021 and 6027.

Development of a scientific, critical and objective orientation of social reality and social policies as a basis for the intervention of the social worker. This orientation should lead to concrete proposals that will contribute to reducing or eliminating the dependency on large sectors served by social workers.

TSOC 6131 Scientific Research Seminar and Thesis I

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

TSOC 6006 Expands the foundational knowledge base of social research. It examines in detail selected research designs, the statistical techniques applied to those designs, and issues related to the application of the design. In this course, the group of students initiates an empirical research project about a problem in the area of human services.

TSOC 6132 Research Seminar and Thesis II

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

Prerequisite: TSOC 6131.

Application of knowledge and results of skills acquired in research. Emphasis on statistical data analysis in the writing of the research project.

TSOC 6896 Thesis Research Seminar III

Zero credits. Thesis.

Prerequisite: TSOC 6132.

This course allows students to conclude their master's thesis, and maintain an active student status under the direction of their advisors. They must enroll in the course until their thesis is completed.

OTHER COURSE DESCRIPTIONS:**TSOC 6013 Critical Perspectives on Health and its Implications for Social Work**

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

An examination of the concepts of health and disease in our historical and cultural context will be developed in the light of the following topics: presence of Health in the social sciences, changes in public health perspectives, key concepts for the health enterprise (morality and risk), social differences created by ideas about disease and the role of health

professionals, particularly social workers, in the definition of healthy. These issues will be addressed by critically reflecting on the role of power and social control that these definitions imply and by analyzing how they have historically changed to exert control over populations. These control mechanisms are manifested in diagnoses, advertising campaigns, laws and applied practices in the social sciences. Work strategies in response to these critical perspectives, such as community work and social policies, will be explored.

TSOC 6018 Social Work with the Elderly.

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Develop knowledge, attitudes, and skills in the field of gerontology that will enable the social worker toward effective intervention. Analysis of the impact of existing theories on public policy. Development of intervention and prevention skills in the context of Puerto Rican social reality. Special attention to social research, and to the development of readiness for interdisciplinary group work.

TSOC 6038 Crisis Intervention

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Acquisition of knowledge, attitudes, and skills in crisis intervention in the Puerto Rican socio-cultural context. It has a preventive approach, and develops students' readiness for interdisciplinary group work. Intervention models and their adequacy to the sociocultural context are analyzed. Emphasis is placed on public policy analysis and research.

TSOC 6056 Systematization of Social Work Practice

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

Prerequisite: One of any of the following: TSOC 6091, 6092, or 6093. Systematization is a methodological proposal for the critical interpretation of practical experiences that enables the construction of knowledge based on reflection from these, both of the professional and of the various social groups. From this production of knowledge, the promotion of conditions of equity and social justice is sought, prioritizing transformative political intentionality. This course is aimed at the training and development of students' skills in the processes of systematization of social work practice at the various levels of professional intervention. Its content includes the conceptual bases and characterizations of the systematization, differentiation and complementarity of various social practices in the production of knowledge, the epistemological foundations that sustain systematization and the debates around it, various methodological proposals for systematization, as well as experiences of systematization in Puerto Rico and Latin America.

TSOC 6058 Organizational Behavior and Social Work

Three credits. Three hours of lecture per week Prerequisite: Director's Permit Provides the knowledge and opportunity to develop attitudes and skills related to the integration of individuals, groups, and structures and their effect on organizational behavior in human service agencies in Puerto Rico. Special attention to the impact and analysis of public policy and the analysis of research in this regard. The focus of the course will be on preparing for interdisciplinary group work in the organizational context.

TSOC 6059 Theories of Criminal Behavior

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Study and Critical Analysis of Theories of Criminal Behavior. Special attention is paid to the applicability of these theories to prevention and professional intervention of social workers in the context of Puerto Rican social reality. Aspects of public policy and scientific research. Emphasis will be placed on working in interdisciplinary teams.

TSOC 6066 Social Movements and Social Work

Three credits. Three hours of lecture a week.

Development of knowledge, attitudes, and skills that will enable students to analyze and research different social movements in Puerto Rico, Latin America, and other parts of the world. It fosters the development of readiness towards work in interdisciplinary groups, the critical analysis of the impact of these social movements on the country's public policies and a scientific approach to this social phenomenon.

TSOC 6075 Identity and Diversity in Social Work Practice

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

Study of the impact of economic, political, social, and cultural structures on the formation of the individual and collective identity of Puerto Ricans residing in Puerto Rico and the United States, according to their class, race, and gender status. The difference between oppression, discrimination and prejudice will be clarified specifically in relation to the dynamics of classism, racism, colonialism, Eurocentrism and sexism. Analysis of the responses that have been generated from the field of social work to meet the needs of different social groups, which have been marginalized for reasons of their class, race, ethnicity or gender condition, as well as social policies and programs developed to promote the inclusion and acceptance of human diversity. Special interest in describing and analyzing the experiences of Puerto Ricans and other marginalized groups residing in the United States, as well as immigrant groups in Puerto Rico, and their struggles to promote social justice. In Puerto Rico and the United States, community-based organizations, organizations, and agencies working with class, race, and gender dynamics in Puerto Rico and the United States will be visited.

TSOC 6095 Theory and Methodology of Social Work with Families I

Three credits. One hour of lecture, one hour of discussion and one hour of workshop per week. Prerequisite: TSOC 6091. This course will be a prerequisite for students in the regular program, but not for those in the accelerated program, who are exempt from taking it.

This is the first of two courses in family intervention methodology required for family-centered social work concentrations. The main purpose of the course is to provide students with a body of knowledge, skills, and attitudes that will enable them to intervene directly with families. Emphasis will be placed on the direct service of social work with the family from a systemic perspective. This course aims to offer students learning experiences that allow them to know, compare and apply different models of intervention with families. In addition, it will allow you to learn about the historical development of the family, intervention with families and the contribution of the schools of thought studied and of social work to the study of the family.

TSOC 6097 Community Development and Processes

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

Prerequisite: TSOC 6092.

This course is required for students of the community social work concentration and elective for any other discipline. It delves into the components of community development in the context of Puerto Rica's socio-economic reality, as well as the processes to meet the needs of communities

and to address the obstacles and limitations that impede their full development and well-being, including the prevention and solution of social problems. The impact of the country's socio-economic development policies on planning and community development will be analyzed, as well as the responsibility and power dynamics that are configured between the state, other institutions and various popular sectors. The theoretical and methodological basis that enables community social workers to be inserted in community processes and to carry out their role of education, promotion, planning and facilitation of interdisciplinary work with ethical-political responsibility will be discussed. It emphasizes the processes of: leadership, participation, organization, decision-making, planning, research, action, and community oversight necessary for the development of community potential, self-management, and interdependence toward the integral transformation of Puerto Rico.

TSOC 6099 Management in the Organizational Context of Social Programs

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

TSOC 6093. Core Professional Practice in Social Work II Requirement in the area of administration of social programs, whose purpose is to deepen the development of knowledge, attitudes, and skills that allow the effective performance of social program administration functions in the Puerto Rican context. It prepares students to take a proactive position in the implementation of social policies. It analyzes the impact of market forces and political forces as opposed to organizational transformation to respond to clientele. It analyzes the theoretical foundations that underpin administrative practice, structures, processes, and functions from an open system approach. Reflect on the Theory of Social Management Practice. It examines the relationship between social policy, management, social programs, and the services offered. It emphasizes the political dimension of

leadership and participatory forms of organizational decision-making.

TSOC 6106 Social Work and Mental Health in Puerto Rico

Three credits. Three hours of lecture a week.

Development of basic knowledge, attitudes and skills to intervene, within an interdisciplinary framework, in the preventive and curative field with mental health conditions in children, adolescents, adults and the elderly.

TSOC 6107 Social Worker Intervention with Terminally Ill Persons

Three credits. One hour of lecture and two hours of lab or workshop per week. Prerequisite: TSOC 6091 or Director's Permit Provides the advanced theoretical-methodological foundation for intervening with terminally ill individuals, their families, and the community. Public Policy Analysis and Terminal Illness Research. Special attention to terminal illnesses of high incidence in Puerto Rico, such as AIDS. Develop the readiness to work in interdisciplinary teams of health professionals.

TSOC 6108 Policy Process and Community Social Action in Social Work Practice

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

Prerequisites: TSOC 6092.

The course analyzes community social action and the political process in the context of Puerto Rican social reality. It studies processes aimed at change in power relations, the distribution of resources, and social institutions. It examines the relationship between the political process, social action, and social policy. The process is examined as a tool to achieve greater community participation in decision-making and process management, to promote the prevention and solution of social problems, to fight against social injustice and to defend the rights of the diversity of oppressed groups in the community. It will facilitate the development of knowledge, attitudes and skills to enable community groups to participate in the formulation, development and changes of social policies that affect them. The intervention emphasizes the use of the scientific method, interdisciplinary work, and an ethical-political approach.

TSOC 6117 Social Work with Groups in the Administration of Social Programs

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

Prerequisites: TSOC 6105-Social Agency Administration. Other students who are not from the concentration will apply for authorization.

A required course for students in the Social Program Administration concentration and electives for students in other concentrations, the purpose of which is to incorporate the skills of working with groups into administrative processes. The course is focused on developing the group methodology as an instrument to promote a transformation of the

components of the organizational structure that favors the improvement in the quality of services. You will analyze the various theories, approaches, and models of group work that are employed in the organizational context. Emphasize the types of groups, stages, roles, techniques, and communication pertinent to group work. The course will use the group methodology as an instrument to strengthen the effectiveness of the practice, to empower the student and to collaborate with other professionals inside and outside the organization. The use of research for skills development will be encouraged.

TSOC 6126 Social Work with Community Groups

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

Prerequisite: TSOC 6092 – Core Professional Practice in Social Work II.

Required course for students in the community social work concentration and elective for students in any other concentration. Oriented to the intervention of the social worker with groups in the community context. The emphasis is on task forces to meet the organizational needs of communities in the context of Puerto Rican social reality. The content of the course covers fundamental areas such as: social work with task groups or theoretical concepts, organization and work with different groups and stages in development and phases in group implementation and professional intervention. The findings of scientific research will be examined in their application to group work. The course will include the analysis of social policies that affect working with groups as a modality of professional intervention and how groups in turn impact the development of social policies at the community level.

TSOC 6146 Theory and Methodology of Small Group Social Work

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

Prerequisite: TSOC 6091 – Core Professional Practice in Social Work I. This is one of the required courses to be taken by students in the area of concentration of family-centered social work. The main purpose of the course is for students to deepen their knowledge, attitudes and skills that allow them to perform more safely and effectively when using this intervention modality. Emphasis will be placed on the importance of preventive work through mutual aid, support, guidance, personal growth and education groups. Emphasis will be placed on working with those populations at highest risk in Puerto Rican society. Existing research studies will be analyzed to analyze the applicability of the models to at-risk groups in Puerto Rican society. Organizational policy analyses will be carried out. Existing ones that promote or limit the use of group social work as an intervention modality.

TSOC 6152 Theory and Methodology of Social Work with Families II

Three credits. One hour of reading, one hour of discussion, and one hour of workshop per week.

Prerequisites: TSOC 6091- Core Professional Practice in Social Work I and Theory and Methodology of Social Work with Families I.

This is the second of two courses in family intervention methodology required for the family-centered social work area of concentration. The main purpose of this course is to

provide students with knowledge, skills, and attitudes that will enable them to intervene directly with families. Its content includes a socio-historical perspective of the family; the postulates, strategies, and intervention techniques of feminist, conflict, and other emerging models of family therapy; An analysis of social policies that impact the family and an effectiveness study in the area of intervention with families.

TSOC 6165 Theory and Methodology of Social Work with Individuals

Three credits. One hour of reading, one hour of discussion, and one hour of workshop per week.

Prerequisite: TSOC 6091 - Core Professional Practice in Social Work I.

This is a required course for students of the family-centered social work concentration. It provides the student with an advanced theoretical and methodological basis on the process of individual intervention at the three levels of prevention, within an interdisciplinary framework. The course emphasizes the analysis of the factors that characterize the Puerto Rican social reality and their impact on family dynamics and on the development and maintenance of situation management skills in people of various age groups. The implications of public policies and research on the effectiveness of intervention models and their implications for professional social work practice are discussed.

TSOC 6229 Supervision in Social Work

Three credits. Three hours of lecture a week.

Prerequisite: TSOC 6093 and Director's Permission Administrative, Educational, and Emotional Support Methodological Foundations of the Intermediate Level Supervision Process.

TSOC 6230 Supervision of Direct Service Personnel in Social Work

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

Prerequisite: TSOC 6229 Supervision in Social Work. Other students request special permission to enroll in the course.

This is the second supervisory course in social work in the social program administration concentration. This course is elective and prepares the student to learn about and apply innovative models of supervision in social work in the Puerto Rican context. Emphasis will be placed on the models of interactional supervision and intervention with families in the group context, in addition to other emerging models. Findings from recent studies in the area of supervision will be analyzed, particularly in the development of interpersonal skills necessary to be able to implement supervisory functions and in the administration of social programs. This course emphasizes the role of the supervisory social worker as a group leader who facilitates changes in the organizational environment and the supervision of direct service personnel.

TSOC 6236 Middle Management in Human Services Agencies

Three credits. Three hours of lecture a week.

Prerequisite: TSOC 6093, 6229.

Develop knowledge, attitudes and skills that enable the acceptance and execution of the role of middle manager. Emphasis will be placed on the study of the relationship between social and administrative policy from a scientific perspective. Students will be provided with the ability to analyze and apply skills in the conception, design, implementation, and analysis of social service programs.

TSOC 6265 Social Work and Gender

Two credits. Two hours of lecture per week.

Prerequisite: Director's permission Critical analysis and intervention with issues affecting women as members of the family and Puerto Rican society. Special emphasis on the analysis of the dominant ideology and its impact on women's politics. Attention to research data, prevention and the development of readiness for work in interdisciplinary teams.

TSOC 6279 Human Sexuality and Social Work

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Human Sexuality within the Context of Puerto Rican Social Reality. Methodological aspects pertinent to preventive intervention in areas related to the expression of sexuality. Critical examination of public policies and scientific research. Emphasis on the development of readiness for work in interdisciplinary teams.

TSOC 6288 Program Evaluation and Proposal Development

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Provides the student with the knowledge, attitudes, and skills that strengthen the ability to conduct evaluative research and develop proposals within the Puerto Rican institutional framework. The implications of programme evaluation for social policy and evaluation are analysed from the perspective of working in interdisciplinary teams.

TSOC 6289 Social Work and Domestic Violence

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: Permission of the Director Analysis of the Etiology of Domestic Violence in the Context of the Puerto Rican Reality. Development of knowledge, attitudes and skills in the management of domestic violence. Special attention to prevention and intervention strategies, the impact of public policies, research on this problem, and the readiness of social workers for interdisciplinary work.

TSOC 6296 Social Work and Alcoholism in Puerto Rico

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: TSOC 6091 or Director's Permit Development of knowledge, attitudes, and skills to intervene with alcohol prevention and treatment. The impact of alcoholism on different population sectors and the sociocultural and legal aspects associated with its use

and alcohol abuse. Critical analysis of the impact of public policies and scientific research. Emphasis on readiness for interdisciplinary teamwork.

TSOC 6297 Expertise and Social Work

Three credits. Three hours of lecture a week.

Prerequisite: It is recommended that the course be taken at the second-year level of master's degree studies in Social Work.

Knowledge, attitudes and expertise in social work. Spatial emphasis on the performance of roles of analyst, public policy maker, evaluator, advisor, researcher, speaker and proposal writer, among others. It emphasizes research skills and the impact of the preventive dimension of this role. You will develop readiness towards interdisciplinary work.

TSOC 6301 Professional Occupational Social Work Practice I

Three credits. Three hours of lecture a week. Prerequisite: TSOC 6037, 6237 and Director's Permission Rationale for Professional Intervention with Workers, and labor organizations that represent them. Worker development potential for enterprises organizational change.

TSOC 6302 The Professional Practice of Social Work II

Three credits. Three hours of lecture a week.

Prerequisite: TSOC 6301.

Study of the basic components in the provision of occupational social work services in Puerto Rico, such as: occupational counseling, information and referral services, application of worker protection laws, advocacy for rights, and design of service projects and programs. Review of intervention strategies and techniques in the field of prevention and rehabilitation.

TSOC 6326 Social Work Within the Legal Context

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

Prerequisite: TSOC 6091.

Development of knowledge, attitudes, and skills of the social worker within the legal context. Study of legal institutions and legislation related to the profession, functions and roles of the social worker. Develop readiness for interdisciplinary work.

TSOC 6327 Social Work in the Promotion of Local Economic Development

Three credits. One hour of lecture and two hours of discussion per week. Prerequisite: TSOC 6270 and Director's Permit Review of the economic function of the community, the basic concepts of community economic development, and the factors that facilitate and hinder the phases of this process. Emphasis on critical analysis of socio-economic

experiences in other countries and the factors affecting the promotion of local economic development of the future.

TSOC6345 Independent Study in Social Work

One to three credits.

It offers students the opportunity to delve deeper into a topic of interest within the field of social work. The student will select the topic of his/her preference and, together with the assigned professor, will identify and discuss the theoretical formulations, intervention models and recent research pertinent to the selected topic. **Mailing Address:** 9 Ave.



Universidad, Suite 901, San Juan, Puerto Rico 00925-2529

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Coordinator: Dr. Lillian Albite Vélez Telephone Extensions: (787)

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DEGREE: Doctor of Philosophy with a specialty in Social Work

Accreditation: Council on Social Work Education

TEACHERS:

Lilliam Albite Vélez, PhD, University of São Paulo, University of Port Rich 2005, Professor.
of São Paulo, University of São Paulo, University of São Paulo, University of São Paulo, University of São Paulo, University of

Esterla Barreto Cortés, PhD, Brandeis University, 1999, Professor. *Participatory social research; social policy analysis; race; oppression and diversity.*

Jannette Rodríguez Ramírez, PhD University of Puerto Rico, 2008. Assistant Professor.
Social Policy Evaluation, Social Science Statistics, Population Studies

Angelica Varela Llavona, PhD, Ohio State University, 1981, Associate Professor.
Management; proposal development.

Elithet Silva Martínez, PhD. University of Iowa, 2009, Assistant Professor. *Intervention models in family, women and gender, social research methods.*

Hilda P. Rivera Rodríguez, Columbia University, 2000, Assistant Professor. *Administration of social policy, social welfare, models of intervention in the family.*

Diana Padilla Medina, New York University. 2012, Assistant Professor. *Gender-based violence, physical and mental health, children and adolescents, social intervention.*

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Doctoral Programme

1. Possess an academic degree according to one of two classifications: master's degree in social work from an accredited university institution , or bachelor's degree in social work and a master's degree from an accredited program in an area related to social work (Public Administration, Anthropology, Political Science, Rehabilitation Counseling, Economics, Latin American or Caribbean Studies, Juris Doctor, Criminal Justice, Planning, Psychology, Public Health-Demography, Gerontology, Sociology, Guidance and Counseling, others -by decision of the doctoral committee).*
2. Minimum academic index at the graduate level of 3.00 points on a scale of 4.00 or its equivalent.
3. Have passed a graduate level statistics course within the 5 years prior to applying for a PhD.
4. Basic computer skills, knowledge of a word processing program, and personal e-mail address.
5. Ability to read and write Spanish and read English.
6. The doctoral committee will invite qualified applicants for interviews.

* Applicants whose bachelor's and master's degrees are not in areas related to social work, but meet the other requirements and also, when evaluated by the doctoral committee, go to the interview stage, and English test will be conditionally admitted. Their integration at the doctoral level at the Beatriz Lassalle Graduate School of Social Work will be conditioned to the approval of 15 credits with a minimum average of 'b' in core courses of the master's degree in social work and the seminar social work as a profession, prior to enrolling in doctoral courses. The duration of conditional admission will not exceed 2 years. If, at the end of the two years of conditional admission, the applicant does not enroll in the doctoral program, he/she will have to apply again.

Documents Required for the Application for Admission

1. Application for admission to graduate studies in electronic format through *ApplyYourself*.
2. Two official credit transcripts.
3. Writing an essay that elaborates on the research area of interest and reflects your critical analysis skills and writing skills (request newsletter at school).
4. Detailed curriculum vitae that includes education, professional experiences, professional presentations, publications, research, participation in proposals,

professional associations, community service, language(s) mastered, language(s) in which he/she has reading and comprehension skills, and computer skills, among other skills that the candidate deems relevant. (request a newsletter at school).

GRADUATION REQUIREMENTS:

In addition to meeting the general admission requirements for graduate studies at the Río Piedras Campus, they must meet the following:

1. Pass a minimum of 39 credits in courses under the program.
2. Maintain an overall minimum index of 3.00 points. If you have a lower index in any semester, your permanence in the doctoral program will be subject to an evaluation and recommendation by the admissions committee.
3. Take a written degree exam upon passing the 39 credits in required courses at the doctoral level.
4. Present and defend a dissertation proposal, which must be approved by the dissertation committee.
5. Present in the form of a doctoral dissertation and defend an original research work that constitutes a significant contribution to the analysis and administration of social policy.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses*	12
TSOC 8005 Philosophical Foundations of Social Work	3
TSOC 8006 Theory for the Analysis of Social Policy and Organizational Behavior in the Context of Puerto Rico	3
TSOC 8015 Oppression, Justice, and Social Policy	3
TSOC 8016 Models for the Practice of Social Program Administration	3
Three Research Courses	9
TSOC 8101 Advanced Social Research I: Methodological Design and Applicability to Social Policy Research	3
TSOC 8102 Advanced Social Research II: Analysis of Quantitative Data Using SPSS	3
TSOC 8103 Advanced Social Research III: Qualitative Analysis.	3
Three specialization courses in the areas of Public Administration, Social Planning and Research	9
Elective	6
TSOC 8406 Project in Social Policy Analysis	2

Program Requirements	Credits
<i>TSOC 8900 Doctoral Degree Examination</i>	0
Dissertation	4
TSOC 8405 Dissertation Seminar	1
TSOC 8501 Doctoral Dissertation in Social Work I	3
TSOC 8502 Doctoral Dissertation in Social Work II	0
Total Credits	42

*Students admitted to the doctoral program who have a bachelor's and master's degree in another discipline must take 15 core credits at the master's level in social work.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

TSOC 8005 Philosophical Foundations of Social Work

Three credits. Three hours of lecture a week.

Analysis of at least two central axes of social work: its epistemological bases and its conceptual bases, delving from these two points of view into the contradictory process of modernity. Exploration through a systemic reading of the links between social work and this conceptual network, having a more rigorous logic of interpretation.

TSOC 8006 Theory for the Analysis of Social Policy and Organizational Behavior in the Context of Puerto Rico

Three credits. Three hours of lecture a week.

Examination of studies and research conducted in Puerto Rico applying theories for the social analysis of organizations in charge of implementing social policies. It delves into the current state of knowledge that arises as a function of research management. It integrates the theoretical aspects of social analysis with contextual factors and organizational behavior in the implementation of social policy. The political, social, and economic situation of Puerto Rico is studied, as reflected in the professional literature.

TSOC 8015 Oppression, Justice, and Social Policy

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

In-depth analysis of the dynamics of oppression including a historical perspective of this phenomenon and the effect it has on preventing the development of full individual and collective well-being. The evaluative premises of social equality and the concrete elements that promote and maintain marginalization, exploitation, cultural imperialism, power and violence are analyzed. It examines the social, economic, political, and cultural factors that contribute to the configuration of the social arrangements in force in Puerto Rico and the extent to which they promote oppression and social injustice. The experience of other countries (related or different) is included. A selection of existing social welfare policies is made to critically examine the effect

that globalization, privatization, and federal policies have had on them in order to deal with the situation of disadvantage and marginalization from the discourse and actions of the state. Topics such as social class, ethnicity, gender, and race, among others, are included.

TSOC 8016 Models for the Practice of Social Program Administration

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

Developmental examination of social work theory and practice. Particular emphasis is given to the critical analysis of the theoretical and ideological bases of the models, approaches and approaches that guide professional practice in administration and social policy. In this process, each student examines their professional intervention, shares their analysis with others in the class, and proposes models for social work practice. Intervention models produced by social workers are identified for analysis, as well as other foundations in the interest of specific groups in the community and other professional sectors.

TSOC 8101 Advanced Social Research I: Methodological Design and Applicability to Social Policy Research

Three credits. Three hours of seminar per week.

This course is the first of a sequence of three (3) under the area of Research. It is an introduction to epistemological and methodological design considerations related to research, specific techniques, and data analysis mechanisms available to researchers. We will explore issues in controversies around

the use of social research for the benefit of socially marginalized sectors of the population. We will approach social research through the crucible of possibilities for the promotion of changes related to social justice. We will address the implications of the topics addressed in the course to work in social policy, specifically the role of research in its formulation and evaluation. Students will have the opportunity to develop work that explores the applicability of different models to specific issues in the Puerto Rican, Caribbean and Latin American environment or the society from which the student comes.

TSOC 8102 Advanced Social Research II: Analysis of Quantitative Data Using SPSS

Three credits. One hour of lecture, one hour of discussion and one hour of workshop. Prerequisite: TSOC 8101.

This course is the second in a sequence of three (3) under the research area. It is an introduction to the process of quantitative data analysis from an applied perspective and through the use of computer programs for data storage and analysis. Through the course, we will examine general aspects of the analysis and the role of the *Statistical Package for the Social Sciences* (SPSS) program in this process. Through the course, students will have the opportunity to be exposed to the central aspects of the approach to quantitative data analysis from a theoretical and applied perspective. Through the practical exercise, they will be able to establish relationships between the knowledge acquired and their research work, particularly those related to their dissertation work.

TSOC 8103 Advanced Social Research III: Qualitative Analysis

Three credits. One hour of lecture, one hour of discussion and one hour of workshop. This course is an extension and deepening of the Qualitative Research (CI) content initiated in the course Advanced Research I: Methodological Design. We will emphasize the promotion of qualitative research as an appropriate strategy for the production of knowledge relevant to social work and the formulation and implementation of social policies. The group of students will be able to examine qualitative methods as a basis for the preparation and analysis of bills, and social policies or social programs that respond to the needs of diverse population groups in Puerto Rico. In addition, they will have the opportunity to deepen the application of qualitative methodologies and techniques in the study of a bill, policy or social program on a topic agreed upon by the group.

TSOC 8406 Project in Social Policy Analysis

Two credits. Three hours of seminary and four hours of internship per week.

Prerequisites: Have passed all core, research, elective and concentration courses and have obtained written authorization from the institution where you will carry out your practical application project.

Integration through the practice of the knowledge and skills obtained in core and concentration courses. It will be carried out in the legislature or in a public or private social welfare organization and under the supervision of a professor assigned by the Doctoral Program. It allows the student to choose among several options of experiences of analysis, formulation or implementation of a specific social policy, emphasizing those aimed at meeting the needs of marginalized and excluded sectors. Among the options are: analysing an existing social policy aimed at solving a particular social problem, analysing the results of implementing a social policy (evaluation of a programme), and formulating a new social policy to address an unattended or poorly addressed social problem. The product will be a written work that includes a critical assessment of what exists and some alternatives to the situation studied that are concrete and viable.

TSOC 8900 Doctoral Degree Examination

Zero credits.

Prerequisite: Have requested the exam by means of a form for this purpose and have the approval of the coordinator.

It consists of a written test in which the student prepares a theoretical methodological essay that can be published in a professional journal. In the essay, the student will demonstrate his/her competencies and critical integration of controversies, theories and methodologies related to at least three of the core areas (Philosophical Foundations of Social Work; Theories for the Analysis of Social Policy and Organizational Behavior in the Context of Puerto Rico; Oppression, Justice and Social Policy; Models for Social Work Practice in the Field of Social Policy Formulation and Social Program Administration) and one of the areas of concentration (Public Administration or Planning).

TSOC 8405 Dissertation Seminar

A credit. Three hours of seminar per week.

Prerequisites: All core courses, three research courses, three concentration courses, and two electives.

Formulation and discussion of the ideas that will become the doctoral dissertation proposal, both in terms of the conceptualization of the subject to be investigated, and the methodology considered for these purposes. Presentation of these ideas to the scrutiny of peers and professors in order to achieve a greater definition of them.

TSOC 8501 Dissertation in Social Work I

Three credits. Three hours of meeting a week.

Prerequisite: Meet the program requirements to enroll in the Doctoral Dissertation.

The doctoral dissertation is an original research that demonstrates the student's ability as an independent researcher, and checks their coherent integration of the doctoral courses taken throughout the program. It will involve the presentation and defense of their research proposal pertinent to the advancement of knowledge in the specialty of social work with emphasis on the analysis, formulation, implementation and evaluation of social policy, before its Dissertation Committee.

TSOC 8502 Doctoral Dissertation in Social Work II

No credit.

Prerequisite: TSOC 8501 This course allows students of the doctoral program in Social Work to conclude the writing of their dissertation, making the pertinent changes after the reading and evaluation of their dissertation supervisor. At the end of the semester, the student will defend his/her dissertation, as part of the requirements for obtaining the Ph.D. degree.

OTHER COURSE DESCRIPTIONS:**TSOC 6006 Social Research from Social Work**

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

Prerequisite: Be admitted to the School.

It provides the student with the fundamental knowledge of quantitative and qualitative research in social work. Quantitative research discusses the positivist paradigm, problem formulation and hypothesis, sampling, design, and methods of data collection and analysis. Qualitative research includes the constructivist paradigm, problem formulation, designs, data collection methods, and qualitative analysis.

TSOC 6013 Critical Perspectives on Health and its Implications for Social Work

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

An examination of the concepts of health and disease in our historical and cultural context will be developed in the light of the following topics: presence of health in the social

sciences, changes in public health perspectives, key concepts for the health enterprise (morality and risk), social differences created by ideas about disease and the role of health professionals, particularly social workers, in the definition of healthy. These issues will be addressed by critically reflecting on the role of power and social control that these definitions imply and by analyzing how they have historically changed to exert control over populations. These control mechanisms are manifested in diagnoses, advertising campaigns, laws and applied practices in the social sciences. Work strategies in response to these critical perspectives, such as community work and social policies, will be explored.

TSOC 6018 Social Work with the Elderly

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Develop knowledge, attitudes, and skills in the field of gerontology that will enable the social worker toward effective intervention. Analysis of the impact of existing theories on public policy. Development of intervention and prevention skills in the context of Puerto Rican social reality. Special attention to social research, and to the development of readiness for interdisciplinary group work.

TSOC 6021 Practical Instruction in Social Work I

Three credits.

Prerequisite: Core courses.

A laboratory-like experience whose purpose is to integrate classroom knowledge and offer the student the opportunity to engage with the programs and services of various practice centers.

TSOC 6027 Advanced Practical Instruction in Social Work II

Three credits. Three hours of lecture a week.

Prerequisite: TSOC 6021 and director's permission.

Professional intervention in more complex situations of vulnerable and oppressed groups from a scientific perspective. Critical analysis of social policies that impact these groups and of action for change.

TSOC 6028 Advanced Practical Instruction in Social Work III

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

Prerequisite: TSOC 6021 and 6027.

Development of a scientific, critical and objective orientation of social reality and social policies as a basis for the intervention of the social worker. This orientation should lead to concrete proposals that will contribute to reducing or eliminating the dependency on large sectors served by social workers.

TSOC 6055 Social Reality Analysis

Three credits. Three hours of lecture a week.

Critical and reflexive study of the macrostructure in the economic, political and social order. Analysis of the economic development model, economic, political and psychological dependence, as well as its impact on social policy and the quality of life of oppressed and

vulnerable groups in society. Elaboration of a diagnosis of the Puerto Rican social reality and alternatives for change.

TSOC 6057 Comparative Analysis of Theories of Human Behavior

Three credits. Three hours of lecture per week: Critical and comparative analysis of theories of human behavior from different perspectives in their applicability to the professional context and their relevance to the development and analysis of social policy, emphasizing the preventive and interdisciplinary aspect. Research and literature pertinent to the Puerto Rican social reality will be analyzed.

TSOC 6065 Analysis of Social Welfare Policy and Services

Three credits. Three hours of lecture a week.

Study of the conceptual, theoretical and methodological basis for the analysis of social welfare policy and services. Critical examination of explanatory theses on the origin of social policies, approaches to the social welfare system and the growing intervention of the State in this area. Study of the types of analysis of social policy with emphasis on scientific research.

TSOC 6091 Professional Practice n Social Work I (Ind. & Fam.)

Three credits. Three hours of lecture a week.

This is one of seven core courses in the Master of Social Work program and the first in a three-course sequence on Advanced Professional Practice. It is focused on the discussion and analysis of theoretical and conceptual frameworks that guide and support intervention with various human systems: individuals, families and groups. She is interested in deepening knowledge and refining skills to define issues, needs, gather and weigh information, plan and hire, identify intervention alternatives, select and implement appropriate courses of action, and use research to evaluate processes and their outcomes. The aim is to give particular attention to preventive intervention, with particular emphasis on interdisciplinary work. The student will have the opportunity to examine and critically analyze models of direct intervention that can be used with human systems (individuals, families, and groups).

TSOC 6092 Core Professional Practice in Social Work II (Community)

Three credits. Three hours of lecture a week.

Second year of the Advanced Professional Practice in Social Work sequence. It examines a variety of aspects of community organizing in the historical context of community work in Puerto Rico, highlighting the role of social work in this process. A diversity of theoretical foundations are applied to intervention models that promote the capacity of the community to improve their living conditions through participation and concerted efforts in those matters that impact them. Intervention models, such as community development, planning and social action, applied to geographical and functional communities are presented. The relevance of these in working with oppressed and vulnerable sectors is critically analyzed. Emphasis is placed on people's participation in decision-making, self-management, empowerment and leadership processes. The roles of the practitioner and collaboration with other professions are clarified.

TSOC 6093 Core Professional Practice in Social Work III (Administration of Social Programs)

Three credits. Three hours of lecture a week.

This is the third course in the introductory sequence to the concept of Advanced Professional Practice in Social Work at the graduate level. In Puerto Rico, professional practice has been in a process of change from a majority practice in government settings to the rise of positions in non-governmental organizations and autonomous practice where the social worker is its employer. This course provides the student with the opportunity to critically examine and analyze social administration from different philosophical, theoretical, and conceptual paradigms; as well as controversies that arise such as diversity in its broad form. It is intended that the student is able to understand the need to exercise a transformative professional leadership that contributes towards a competent organization and that administration in social work is part of the practice. Human services professional committed to individual, group, communal, and social transformation.

TSOC 8007 Evaluation of Social Programs and Services

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

Prerequisite: Social research course or research design.

Study of the conceptual, theoretical, ethical and methodological aspects of the evaluation of social programs and services. It also examines the importance of evaluation in the formulation and implementation of social policies and related decision-making. It encourages the analysis of the various evaluation approaches or models, as well as the procedures for carrying them out. It provides a theoretical and conceptual basis for the implementation and development of program and service evaluations.

TSOC 8008 Theories of Communication, Public Policy, and Communities

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

This course seeks to bring together knowledge from various disciplines and practices that allows students to understand the complexity of creating public policy in the globalized world and the important role that communication plays in the process of awareness, creation of alliances, dissemination, approval and implementation of public policy that responds to the needs of communities.

TSOC 8009 Seminar on the State and Social Policies

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

Prerequisites: TSOC 8005, 8006, 8015, 8016, 8101, 8102, 8103.

This seminar aims to deepen the reflection on the specificity of the State and social policies in the contemporary world. It is postulated that although it is true that social policies, at any geographical point and historical moment, address particular social situations, such as unemployment, citizens' rights, crime, housing, health, migration, exclusion by condition, ethnicity or identity, and poverty and other issues associated with the administration of public space, it is also true that the particular way in which these social policies are articulated is closely related to the nature of the State, namely: functionalist, instrumentalist and minimalist; from different theoretical perspectives, such as Marxist, neo-Marxist, socio-democratic, Weberian, liberal, neo-liberal, post-modern and feminist, as well as some

more eclectic, such as "The reconstitution of the welfare state", the notion of the "cooperative state" and the debate on "failed states".

TSOC 8055 Mixed Methods in Social Research and its Implications for Social Policy

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

Prerequisites: TSOC 8101, 8102, 8103.

Social research has been polarized into multiple debates related to epistemological, ontological, and methodological issues. One of the most important debates has been related to the integration of qualitative and quantitative techniques in research designs. Although this is an area in current development, many of the questions raised by the integration of these research positions remain to be answered. As if this situation were not complex enough, when these techniques are integrated, their implications for social work and the social sciences in general become less clear. In the case of research related to the development and evaluation of social policies, there is an urgent need to explore the implications of integrating these perspectives, which on the one hand concentrate on the local, specific and narrative and on the other hand on the generalizable, broad and quantifiable. This course will explore the theoretical and methodological implications, mixed methods, and their applicability to social policy-related research.

TSOC 8995 Special Topics Seminar in Social Policy Analysis and Administration

One to three credits. Monthly Seminar.

Requirements: Permission from the Academic Advisor and availability of qualified teaching resources.

Special issues will be analysed in the analysis of social policy and its administration, emphasizing contemporary debates. The purpose of this course is to offer students the opportunity to supplement the knowledge and skills provided in the core courses in social policy and to satisfy concerns raised by them by addressing in depth topics that are slightly or not considered in the required courses. The topics of the course will be established by the students and teachers in attention to the interests and needs of the students and according to the availability of teaching resources. The course, which can be repeated only when the topic is different, will address topics such as: Social Intervention and Citizenship; The nature of poverty in Puerto Rico; Lobbying for community interests, development and transformation of the third sector; Ad hoc groups and their interests; Intolerance and its consequences; Innovative models of social intervention and other topics of interest in social policy from a rigorous theoretical and methodological perspective.



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DEGREE:

Master's Degree in Management and Development of Cooperatives and Solidarity Organizations

TEACHERS

Elba A. Echevarría Díaz, Ed.D. Associate Professor. University of Puerto Rico, 2011. Cooperative Legislation, Cooperative Education, Management, Organization of Cooperatives, gender. elba.echevarria@upr.edu

Grisell Reyes Núñez, Ph.D. Associate Professor. University of Puerto Rico, 2005. Self-management, social bond, social and solidarity economy, cooperative subjectivity. grisell.reyes@upr.edu

Efraín Rosado Rodríguez, Ph.D. Associate Professor. Management of Cooperative Enterprises of the University of Mondragón, Basque Country, 2016. Cooperative management models, companies transformed into cooperatives by workers, cooperative identity and management models for solidarity organizations. efrain.rosado@upr.edu

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Baccalaureate or its equivalent from a recognized university.
2. Have an academic index of 3.00 on a 4.00 scale.
3. Have the ability to communicate orally and in writing in two languages, one of these being Spanish or English.
4. Two letters of recommendation using the form that appears on the Apply Yourself platform. The entire application and admission process is done online, including the payment of the Admission Fee.
5. Appear for an interview with the Admissions Committee.
6. Write an essay.

GRADUATION REQUIREMENTS:

1. Complete the 30-credit program of study in an area of specialty with an academic index of no less than 3.00 points. Courses must be passed with A or B.
2. Pass the COOP 6201 Project course. Delivery of two volumes of the project.
3. Complete the degree requirements within a maximum period of 4 years. In meritorious cases, if the student does not complete the requirements within the regulatory period, he/she may request an extension from the Dean's Office of Graduate Studies and Research of the Río Piedras Campus.

PROGRAM OF STUDY:

Core Courses - 21 credits			
Codification	Course Title	Credits	Contact Hours
COOP 6031	Fundamentals of Cooperativism	3	45
COOP 6033	Contemporary Socio-Economic Debates	3	45
COOP 6035	Psychosocial and Educational Aspects in Cooperatives and Solidarity Organizations	3	45
COOP 6131	Economic Viability for Cooperatives and Solidarity Organizations	3	45
COOP 6133	Management Models for Cooperatives and Solidarity Organizations	3	45
COOP 6135	Project Proposal Seminar	3	45
COOP 6201	Project	3	45
Total: 7 courses		21	315
Percent: 70%			

Open Selection Courses - 9 credits (You can choose up to 3 of the following courses)			
Codification	Course Title	Credits	Contact Hours
COOP 6210	Companies Transformed into Cooperatives by Workers	3	45
COOP 6207	Cooperativism and Solidarity Economy in the Caribbean Antillean	3	45
COOP 6206	Comparative Cooperative Law	3	45

Open Selection Courses - 9 credits (You can choose up to 3 of the following courses)			
COOP 6215	Interdisciplinary Seminar	3	45
COOP 6205	Practical experience in Solidarity Organizations	3	45
COOP 6208	Public Policies for Cooperativism and Solidarity Organizations	3	45
COOP 6209	Solidarity Finance	3	45
COOP 5009	Cooperative Study Tour	3	45
Total: 3 courses		9	135
Percent: 30%			

NOTE: The curricular design of the Master's Degree in Management and Development of Cooperatives and Solidarity Organizations allows students to take up to nine (9) credits in free selection courses, which can be from our Program, which is highly recommended, although they can also take them in courses in other faculties that we have identified as an interdisciplinary mechanism.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

COOP 6031 Fundamentals of Cooperativism

Three credits. Three hours of lecture a week.

Philosophical discussion of the conceptions on which Cooperativism is based as a socio-economic system in the West. The central points for the debate will revolve around the concepts of economy and social order, work and the human condition, and collaboration and cooperation. The course seeks to offer a complex perspective on the conceptualization of Cooperativism and critically reviews the development of this discourse, paying particular attention to the possibilities and limitations. Group discussions and teamwork will be the main pedagogical strategies of the course.

COOP 6033 Contemporary Socioeconomic Debates

Three credits. Three hours of lecture a week.

Corerequisite: COOP 6031 Discussion on current socio-economic debates. Concepts such as Development, from the emergence of capitalism to the new approaches of the late twentieth century, and the concept of Solidarity Economy as a new theoretical configuration are analyzed. It analyzes the points of encounter and disagreement of these debates and how they are contextualized within the Puerto Rico Economic Development Model. The course is divided into five thematic modules and will be developed through reflections, group discussions, reports, presentations and debates.

COOP 6035 Psychosocial and Educational Aspects in the Solidarity Economy

Three credits. Three hours of lecture a week.

Corequisites: COOP 6031, COOP 6033 Presents the various theories that address the associative and educational character of Cooperativism and Solidarity Organizations from their assumptions to their application in the organization. Three thematic axes give unity to the course: Subjectivity, Community and Education and Cooperative Identity. The course seeks to offer master's students a perspective of complexity of psychosocial aspects and identifies education as a process of constant transformation of the human being and the society in which he or she lives through citizen participation in the processes of social action. The course is offered through critical reflections from readings, fieldwork, monographic papers, and work or action plans.

COOP 6131 Economic Viability

Three credits. Three hours of lecture a week.

Prerequisites: COOP 6031, COOP 6033 Corequisites: COOP 6035 Study of the process of gestation and development of solidarity economic initiatives from their conception to the evaluation of the economic and social viability of the project. It is approached from the economic processes of production and distribution, taking into consideration ethical consumption and accumulation in the context of the solidarity economy. The ethical values of this type of economy and its impact on local development are emphasized with a view to developing an integrated cooperative and solidarity system through the creation of networks and alliances between these initiatives. Oral and written presentations by students will be coordinated to complement the discussion of some course topics. The student draws up a business plan for a cooperative or solidarity organization. The student will gain the knowledge and develop the skills to conceive, organize, plan and evaluate the economic and social viability of new cooperatives or solidarity organizations as a local development strategy.

COOP 6133 Management Models for Cooperatives and Solidarity Organizations

Three credits. Three hours of lecture a week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131 Presents and analyzes some basic notions of the most commonly used management models in the business world. The forms of worker participation in the management of productive units are discussed, and examples of management models proposed by cooperatives, their characteristics and components are presented. It discusses the application of cooperative principles in management and ethical aspects, the characteristics that underpin the management model of cooperatives through some of the general components of management. Finally, some examples of good practices that have been established in these cooperative management models are presented. Case studies, oral and written presentations will be coordinated to complement the discussion. Face-to-face, hybrid and online course.

COOP 6135 Project Proposal Seminar

Three credits. Three hours of seminar per week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131 It addresses the importance of research in the field of Cooperativism and Solidarity Organizations, as well as the process of its elaboration. Various research approaches and methods are presented and evaluated, with special emphasis on participatory research and action. The structure and requirements of a project are discussed according to the regulations of the graduate program, including ethical aspects. It is expected that at the end of the seminar students will present their project or research proposal.

COOP 6201 Project

Three credits. Three hours of thesis per week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131, COOP 6135

Assistance and individualized attention to students so that they can complete and present their Project according to the regulations of the graduate program. Students will be able to choose between five project modalities: creative project, research work, publishable article, case study, feasibility study (social and economic) of a Cooperative or Solidarity Organization. The course requirement will be met by submitting the final writing and presentation of your project. The student may repeat the course up to a maximum of two times.

COOP 6210 Enterprises Transformed into Cooperatives by Workers

Three credits. Three hours of lecture a week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131, COOP 6133 Analysis of the experiences of companies transformed into cooperatives by workers as a modality of economic organizations and social phenomenon belonging to the Social and Solidarity Economy. The course presents the political and socio-economic context that enables or limits the emergence and development of these organizations nationally and internationally. It analyzes the process of social organization in terms of motives, development of a new cooperative identity, organizational changes, and worker satisfaction. The course is presented through group discussions by case studies. The resource of cinema (documentaries) is used as a means to show some real experiences and cases. A written paper or monograph will be required in which some experiences or case studies are systematized.

COOP 6207 Cooperativism and Solidarity Economy in the Caribbean Antillean

Three credits. Three hours of lecture a week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131, COOP 6133. Study of the different experiences of the Social and Solidarity Economy in the Caribbean, especially the Greater Antilles; Cuba, Jamaica, Haiti, Dominican Republic and Puerto Rico. The types and modalities of the experiences, the legal framework and public policies, integration with other social movements, support mechanisms and management models are presented. The socio-economic impact and trends of these sectors in each of the countries studied are

analysed. Conceptions and experiences of Cooperativism and Solidarity Economy are analysed from the international cooperative perspective. The course will promote research, exchanges and networking in these countries.

COOP 6206 Cooperative Law

Three credits. Three hours of lecture a week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131, COOP 6133 Study of the origin and trajectory of the concepts and legal norms that make up Cooperative Law. The sources of cooperative law will be analysed and how the current regulations contemplate and establish the principles that guide the cooperative movement. The particular aspects of the current set of laws in Puerto Rico will be studied and compared with the regulatory framework of other countries in Europe, North and South America. Current debates on the conception of a social right vis a vis the dichotomy of a public law and a private right will be discussed, as well as the level of state intervention in the development of cooperativism. Critical analyses will be presented and recommendations by the students based on the comparative cases studied in class.

COOP 6215 Interdisciplinary Seminar on Cooperativism and Solidarity Organizations

Three credits. Three hours of seminar per week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131, COOP 6133 This course presents topics related to Cooperativism, Solidarity Organizations or the Solidarity Economy from an interdisciplinary approach, enriching the study of current issues emerge. Its purpose is to make the curriculum more flexible and serves the interests of students. It addresses projects, texts or topics of research interest proposed by the professor or students that allow them to deepen their knowledge of these topics. This seminar addresses contemporary debates that are not found in the courses that make up the curriculum or can deepen projects, cases, theoretical issues, concepts or topics worked on in other courses of the Master's Degree in Management and Development of Cooperatives and Solidarity Organizations. The proposed topic must be approved by the graduate committee. The course is taught through discussions, case presentations, analysis of readings by the theorists of Cooperativism and Solidarity Organizations.

COOP 6205 Practical Experience in Solidarity Economy

Three credits. Minimum of 20 hours of practice per week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131, COOP 6133. The course consists of a practical experience that the student carries out in an organization related to the solidarity economy in which it is expected to put into practice the knowledge obtained in the master's courses. It is carried out under the supervision of a professor from the Department. The internship can have the following modalities: an internship in a Cooperative, Solidarity Organization or Practice Center of another discipline that has an economic development component; an internship at a Government Agency or Commission of the Legislature related to Cooperativism; or a Research Center participating in related research. The student must complete between 20 hours per week and a maximum of 300 hours of practice per semester in order to pass the course.

COOP 6208 Public Policies Three credits.

Three hours of lecture.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131, COOP 6133 The course is an introduction to the legal framework that supports Cooperativism and the Solidarity Economy in Puerto Rico. It begins by defining the concept of law and some of its classifications that have an impact on associative organizations. In addition, a critical analysis is made of the role of the State in the face of the hegemonic economic model, as well as alternative models such as Cooperatives and Solidarity Organizations. Laws on cooperatives and other organizations are discussed and analyzed. The historical process of Cooperativism in Puerto Rico through the creation of government institutions, public corporations and federal organizations is presented. Students will be able to evaluate public policy and current legislation. The course is developed through lectures, debates, reflections and the development of public policy proposals.

COOP 6209 Solidarity Finance

Three credits. Three hours of lecture a week.

Prerequisites: COOP 6031, COOP 6033, COOP 6035, COOP 6131, COOP 6133 Study of the concepts of currency and other means of exchange, markets, instruments and financial institutions that facilitate the flow of funds for the process of production, distribution, marketing and consumption, within the framework of a solidarity economy. The risk/return ratio in the activities carried out by the markets and financial institutions operating in the solidarity economy vis-à-vis the traditional financial system will be analysed. Performance indicators under both systems will be studied and compared. Different examples of markets and institutions that operate under the principles of solidarity finance will be compared and critical analyses and recommendations will be presented by the students in accordance with the philosophical and economic foundations learned. The course will be developed through lectures and active discussion of the assigned readings and cases.

COOP 5009 Cooperative Study Tour

Three credits. Three hours of lecture a week.

Prerequisite: COOP 5005 Offered in the summer session and 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.

Faculty of Communication and Information





Mailing Address: 10 Ave. Universidad, #1001, San Juan, PR 00925-2530

Phone: (787) 764-0000, extensions 85315, 85317

Email: asuntosestudiantilesfaci@upr.edu, ruben.ramirez1@upr.edu **Portal:**

<https://faci.uprrp.edu/maestria-comunicacion/>

DEGREE: Master of Arts in Communication with a specialty in Journalism

TEACHERS:

Ramaris Albert Trinidad, PhD , Complutense University of Madrid, 2015. Assistant Professor. Technologies; Content and structure of the information; Database Journalism; Digital visualizations.

Ruben Ramirez Sanchez, Ph.D ., University of New Mexico, 2007. Professor. Media convergence; Technology and culture; Emerging media.

Alfredo Rivas Vélez, Ph.D., University of Puerto Rico, 2012. Assistant Professor. Digital communication and playology, film studies, digital cultures and digital communication and media.

Israel Rodríguez Sánchez, Ph.D., Universidad Complutense de Madrid, 2016. Assistant Professor. Investigative journalism, digital narratives, the public sphere, journalism and diversity.

Jorge Santiago Pintor, Ph.D ., University of Puerto Rico, 2005. Professor of Emerging Information Technologies; Quantitative and qualitative research methods.

Haydeé Seijo Maldonado, Ph.D., University of Illinois, 1988. Professor. Mass Communication and Anthropology; Communication and education; Political communication.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Baccalaureate or its equivalent from a recognized university.
2. Have sufficient knowledge of the Spanish language and English to be able to read and interpret it.
3. Minimum GPA of 3.00 on a 4.00 scale.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format.
2. Two official credit transcripts.
3. Two letters of recommendation for Graduate Studies in electronic format.
4. Submit an essay on the purpose of your graduate studies in communication and the area or topic of research that you are interested in developing as part of your academic training (maximum of three pages).
5. Portfolio of journalistic writings or investigations and/or professional associations (optional).

GRADUATION REQUIREMENTS:

1. Pass the 30 credits of courses and seminars required by the Program.
2. Maintain a minimum grade point average of 3.00 points.
3. Approve the Research Experience in Various Modalities – degree project.
4. Meet all graduation requirements within 4 years or less.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	9
COPU 6500 Theories of Communication	3
COPU 6667 Perspectives and Methodologies of Communication Research	3
COPU 6517 Media Cultures and Structures	3
Specialty Courses: Journalism	9
COPU 6578 Journalistic Theories and Ethics	3
COPU 6725 Seminar on Journalism I	3
COPU 6726 Seminar on Journalism II	3
Elective Courses	9
Degree Project	3
COPU 6697 Research Experience in Various Modalities	3
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

COPU 6500 Theories of Communication

Three credits. Three hours of lecture a week.

Lecture for students who are beginning in the graduate program in which the main frameworks and perspectives that constitute the theories of communication will be studied. Emphasis will be given to the pragmatic, sociotechnical, critical and political-cultural approaches from which the various Theories of Communication are elaborated, such as the Physical and Mathematical Theory of Information, the Social Theory based on language, Cognitive and Cultural Anthropology, the Psychosociological Theory based on perception or interaction, the social and psychological effects of communication, the Theories of Mass Culture, and the Critical Perspective as a manifestation of bourgeois liberal culture. Face-to-face, hybrid and online course.

COPU 6667 Perspectives and Methodologies of Communication Research

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Examination of the various dominant perspectives and methodologies in the study of Communication and their relationship with the theoretical assumptions that underpin them. Identification of research areas and methodological approaches. Knowledge of the skills required to conduct a research/project at graduate level in the field of communication. Face-to-face, hybrid and online course.

COPU 6517 Media Cultures and Structures

Three credits. Three hours of lecture per week Study of cultural processes and their relationship to concepts such as discourse, ideology and mediation. Analysis of the primacy of communication structures, especially in the new multimedia context as the core of contemporary cultural processes. Evaluation of cultural products arising from emerging modes and structures of communication, such as digital mediation, convergence and the political economy of information. Face-to-face, hybrid and online course.

COPU 6578 Journalistic Theories and Ethics

Three credits. Three hours of lecture a week.

Prerequisite: COPU 6500, COPU 6667 Analysis of the journalistic field based on the study of fundamental historical references, the production processes of news content and the evolution of the press in the communication ecosystem of the digital society (media convergence, post-industrial journalism and transmedia narrative). It will reflect on the social responsibility of the press, journalistic ethics, relevant regulations and legislation that affects the profession.

COPU 6725 Seminar on Journalism I

Three credits. Three hours of seminar per week.

Prerequisites: COPU 65021, COPU 6650 Study of cultural and production issues and problems in journalism. The course can be repeated, when the subject matter is different.

COPU 6726 Seminar on Journalism II

Three credits. Three hours of seminar per week.

Prerequisites: COPU 6501, COPU 6650 Study of social, political and economic issues and problems of journalism. Students will then submit study proposals related to the main topic

and from these, the specific topics that will be discussed in depth are identified. The course can be repeated, when the subject matter is different. Face-to-face, hybrid and online course.

COPU 6697 Research Experience in Various Modalities

Three credits. Three hours of thesis per week.

Prerequisite: COPU 6667 and authorization of the Graduate Program Research experience is an exercise that demonstrates mastery of analytical skills, critical thinking, theories and methodologies pertinent to the field of communication. This exercise can take one of two forms: a) an article that can be published in a peer-reviewed journal in the field; b) Creative/professional project. In the case of a creative/professional project, the student will produce a project narrative (depending on the modality adopted) that accounts for the development of the required components of the experience, accompanied by a prototype of the creative/professional product central to the project. It constitutes a full load for the student.

OTHER COURSE DESCRIPTIONS:**COPU 6508 Mass Communication in Latin America.**

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Reading and discussion in groups on the role of mass communication in the so-called underdeveloped countries in Latin America. From the outset, it requires a rigorous definition of the terms that will be used during the weekly dialogues between students, professors and guest speakers. The first area of study will be the historical and social reality of Latin America today, followed by the problems and perspectives of the mass community. The second half of the course will be a collective study of the socio-political and economic role of the mass media in Latin America. It is inactivated effective for January 2021.

COPU 6557 La Noticia: Concept and Wording

Three credits. Three hours of lecture a week.

Intensive lecture and workshop course on news concepts and journalistic writing; analysis of different styles of news; Writing news for all media.

COPU 6559 Advanced Techniques in the Preparation of Publications

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director Advanced theory and practice of editing, proofreading and layout of information, headlines and photographs for publication. Analysis of selection criteria, preparation and presentation of the different elements that make up any page of a publication.

COPU 6574 Latin American Cinema

Three credits. Three hours of lecture a week.

Study of the most important Latin American cinemas (Argentina, Mexico, Brazil and Cuba) from their origins to the seventies with emphasis on their main figures, representative works and special problems that confront these cinematographies. It is inactivated effective for January 2021.

COPU 6607 Seminar on Television

Three credits. Three hours of lecture a week.

Prerequisite: Director's permission Design and development of research on some aspect of television communication. Students will be able to do this work individually or in teams.

COPU 6655 Audience Studies

Three credits. Three hours of lecture a week.

Prerequisite. COPU 6650 or Teacher's Authorization The course studies the behavior of the receivers of mass communication in their relationship with the media. The characteristics of the audience are analyzed from an applied theory perspective, emphasizing the survey as a method of audience research. All aspects of an audience survey will be studied, from the construction of the questionnaire to the analysis of the results.

COPU 6656 Critical Analysis of Media Messages

Three credits. Three hours of lecture a week.

Study of the different perspectives to carry out the analysis of the messages produced by the mass media. It includes the strategies of textual signification and the dynamics of the effects generated by the messages analyzed.

COPU 6660 Independent Studios

Three credits. Each study will have a credit-hour value of three credits. Prerequisite: Prior authorization from the director Every student has the right to select within the field of communications and with the help of a teacher-tutor to carry out a library research project.

COPU 6661 Independent Studies

Three credits. Research by agreement.

Prerequisite: Have completed a research study in COPU 6660. Independent study of communications research.

COPU 6665 Advanced Research in Communication

Three credits. Three hours of lecture a week.

Prerequisites: COPU 6667 and/or permission of the professor In-depth analysis of scientific research methods and phenomena of public communication with emphasis on the practical aspect of the research process. Students will develop individual research projects under the supervision of the professor.

COPU 6675 Symbolic Production, Reception, Consumption

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

Study of the processes of symbolic production from a semiotic, linguistic and anthropological perspective. Discussion of the practices of reception and cultural consumption based on their aesthetic and cultural aspects.

COPU 6695 Seminar Thesis Proposal

Three credits. Three hours of seminar per week.

Prerequisite: To have passed the qualifying exam Intensive preparation of the thesis or project proposal, using all the constituent elements of a proposal.

COPU 6696 Thesis

Three credits.

Prerequisite: COPU 6695 Preparation and presentation of a research in the format of a master's thesis or creative project as its equivalent. The student will be exposed to a series of guides aimed at offering useful elements for the preparation of their research and the presentation of their final project.

COPU 6698 Continuation of Research Experience in Various Modalities

Zero credits. Three hours of thesis per week.

Prerequisite: COPU6697 Continuation of the Research Experience in Various Modalities for the student who requires additional time in the preparation of his/her project, which he/she submits at the end of this course. It constitutes the full academic load for the student.

COPU 6705 Seminar on Communication I

Three credits. Three hours of seminar per week.

Prerequisite: COPU 6501 COPU 6650 Study of broad topics and problems of theoretical and methodological aspects of communication. The course may be repeated when the subject matter is different.

COPU 6706 Seminar on Communication II

Three credits. Three hours of seminar per week.

Prerequisite: COPU 6501 COPU 6650 Study of broad themes and problems of aspects of symbolic and cultural production of communication. The course may be repeated, when the subject matter is different.

COPU 6707 Seminar on Communication III

Three credits. Three hours of seminar per week.

Prerequisites: COPU 6501 COPU 6650 Study of broad themes and problems of sociological, political and economic aspects of communication. The course may be repeated, when the subject matter is different. Face-to-face, hybrid and online course.



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Email: asuntosestudiantilesfaci@upr.edu, ruben.ramirez1@upr.edu **Portal:**
<https://faci.uprrp.edu/maestria-comunicacion/>

DEGREE:

Master of Arts in Communication with a specialization in Theory and Research

TEACHERS:

Ramaris Albert Trinidad, PhD , Complutense University of Madrid, 2015. Assistant Professor. Technologies; Content and structure of the information; Database Journalism; Digital visualizations.

Ruben Ramirez Sanchez, Ph.D ., University of New Mexico, 2007. Professor. Media convergence; Technology and culture; Emerging media.

Alfredo Rivas Vélez, Ph.D., University of Puerto Rico, 2012. Assistant Professor. Digital communication and playology, film studies, digital cultures and digital communication and media.

Israel Rodríguez Sánchez, Ph.D., Universidad Complutense de Madrid, 2016. Assistant Professor. Investigative journalism, digital narratives, the public sphere, journalism and diversity.

Jorge Santiago Pintor, Ph.D ., University of Puerto Rico, 2005. Professor of Emerging Information Technologies; Quantitative and qualitative research methods.

Haydeé Seijo Maldonado, Ph.D., University of Illinois, 1988. Professor. Mass Communication and Anthropology; Communication and education; Political communication.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Baccalaureate or its equivalent from a recognized university.
2. Have knowledge of the Spanish language and enough English to be able to read it e interpret it.
3. Minimum GPA of 3.00 on a 4.00 scale.

Required Documents for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format.
2. Two official credit transcripts.
3. Two letters of recommendation for Graduate Studies in electronic format.
4. Submit an essay on the purpose of your graduate studies in communication and the area or topic of research that you are interested in developing as part of your academic training (maximum of three pages).
5. Portfolio of journalistic writings or investigations and/or professional associations (optional).

GRADUATION REQUIREMENTS:

1. Pass the 30 credits of courses and seminars required by the Program.
2. Maintain a minimum grade point average of 3.00 points.
3. Approve the Research Experience in Various Modalities – degree project.
4. Meet all graduation requirements within 4 years or less.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	9
COPU 6500 Theories of Communication	3
COPU 6667 Perspectives and Methodologies of Communication Research	3
COPU 6517 Media Cultures and Structures	3
Specialty Courses: Theory and Research	9
COPU 6705 Seminar on Communication I	3
COPU 6706 Seminar on Communication II	3
COPU 6707 Seminar on Communication III	3
Elective Courses	9
Degree Project	3
COPU 6697 Research Experience in Various Modalities	3
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog

COPU 6500 Theories of Communication

Three credits. Three hours of lecture a week.

Lecture for students who are beginning in the graduate program in which the main frameworks and perspectives that constitute the theories of communication will be studied. Emphasis will be given to the pragmatic, sociotechnical, critical and political-cultural approaches from which the various Theories of Communication are elaborated, such as the Physical and Mathematical Theory of Information, the Social Theory based on language, Cognitive and Cultural Anthropology, the Psychosociological Theory based on perception or interaction, the social and psychological effects of communication, the Theories of Mass Culture, and the Critical Perspective as a manifestation of bourgeois liberal culture. Face-to-face, hybrid and online course.

COPU 6667 Perspectives and Methodologies of Communication Research

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Examination of the various dominant perspectives and methodologies in the study of Communication and their relationship with the theoretical assumptions that underpin them. Identification of research areas and methodological approaches. Knowledge of skills required to conduct a research/project at the graduate level in the field of communication. Face-to-face, hybrid and online course.

COPU 6517 Media Cultures and Structures

Three credits. Three hours of lecture per week Study of cultural processes and their relationship to concepts such as discourse, ideology and mediation. Analysis of the primacy of communication structures, especially in the new multimedia context as the core of contemporary cultural processes. Evaluation of cultural products arising from emerging modes and structures of communication, such as digital mediation, convergence and the political economy of information. Face-to-face, hybrid, and online course

COPU 6705 Seminar on Communication I

Three credits. Three hours of seminar per week.

Prerequisite: COPU 6501 COPU 6650 Study of broad topics and problems of theoretical and methodological aspects of communication. The course may be repeated when the subject matter is different.

COPU 6706 Seminar on Communication II

Three credits. Three hours of seminar per week.

Prerequisite: COPU 6501 COPU 6650 Study of broad themes and problems of aspects of symbolic and cultural production of communication. The course may be repeated, when the subject matter is different.

COPU 6707 Seminar on Communication III

Three credits. Three hours of seminar per week.

Prerequisites: COPU 6501 COPU 6650 Study of broad themes and problems of sociological, political and economic aspects of communication. The course may be repeated, when the subject matter is different. Face-to-face, hybrid and online course.

COPU 6697 Research Experience in Various Modalities

Three credits. Three hours of thesis per week.

Prerequisite: COPU 6667 and authorization of the Graduate Program Research experience is an exercise that demonstrates mastery of analytical skills, critical thinking, theories and methodologies pertinent to the field of communication. This exercise can take one of two forms: a) an article that can be published in a peer-reviewed journal in the field; b) Creative/professional project. In the case of a creative/professional project, the student will produce a project narrative (depending on the modality adopted) that accounts for the development of the required components of the experience, accompanied by a prototype of the creative/professional product central to the project. It constitutes a full load for the student.

OTHER COURSE DESCRIPTIONS:**COPU 6578 Journalistic Theories and Ethics**

Three credits. Three hours of lecture a week.

Prerequisite: COPU 6500, COPU 6667 Analysis of the journalistic field based on the study of fundamental historical references, the production processes of news content and the evolution of the press in the communication ecosystem of the digital society (media convergence, post-industrial journalism and transmedia narrative). It will reflect on the social responsibility of the press, journalistic ethics, relevant regulations and legislation that affects the profession.

COPU 6555 Radio and Television Journalism

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

The edition of radio and television news framed and produced within the own techniques, its various formats, laws and norms that regulate these electronic news media.

COPU 6556 Journalism and Public Affairs

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of Technical Relations in the preparation of reports on public affairs. Treatment and content of journalistic information on court trials, public hearings, legislation, press conferences, government scandals and public policy.

COPU 6557 La Noticia: Concept and Wording

Three credits. Three hours of lecture a week.

Intensive lecture and workshop course on news concepts and journalistic writing; analysis of different styles of news; Writing news for all media.

COPU 6559 Advanced Techniques in the Preparation of Publications

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the Director Theory and advanced practice of editing, proofreading and layout of information, headlines and photographs for publication. Analysis of selection criteria, preparation and presentation of the different elements that make up any page of a publication.

COPU 6607 Seminar on Television

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director Design and development of research on some aspect of television communication. Students will be able to do this work individually or in teams.

COPU 6655 Audience Studies

Three credits. Three hours of lecture a week.

Prerequisite. COPU 6650 or Teacher's Authorization The course studies the behavior of the receivers of mass communication in their relationship with the media. The characteristics of the audience are analyzed from an applied theory perspective, emphasizing the survey as a method of audience research. All aspects of an audience survey will be studied, from the construction of the questionnaire to the analysis of the results.

COPU 6656 Critical Analysis of Media Messages

Three credits. Three hours of lecture a week.

Study of the different perspectives to carry out the analysis of the messages produced by the mass media. It includes the strategies of textual signification and the dynamics of the effects generated by the messages analyzed.

COPU 6660 Independent Studios

Three credits. Each study will have a credit-hour value of three credits. Prerequisite: Prior authorization from the director Every student has the right to select within the field of communications and with the help of a teacher-tutor to carry out a library research project.

COPU 6661 Independent Studies

Three credits. Research by agreement.

Prerequisite: Have completed a research study in COPU 6660. Independent study of communications research.

COPU 6665 Advanced Research in Communication

Three credits. Three hours of lecture a week.

Prerequisites: COPU 6667 and/or permission of the professor In-depth analysis of scientific research methods and phenomena of public communication with emphasis on the practical aspect of the research process. Students will develop individual research projects under the supervision of the professor.

COPU 6675 Symbolic Production, Reception, Consumption

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

Study of the processes of symbolic production from a semiotic, linguistic and anthropological perspective. Discussion of the practices of reception and cultural consumption based on their aesthetic and cultural aspects.

COPU 6695 Seminar Thesis Proposal

Three credits. Three hours of seminar per week.

Prerequisite: To have passed the qualifying exam Intensive preparation of the thesis or project proposal, using all the constituent elements of a proposal.

COPU 6696 Thesis

Three credits.

Prerequisite: COPU 6695 Preparation and presentation of a research in the format of a master's thesis or creative project as its equivalent. The student will be exposed to a series of guides aimed at offering useful elements for the preparation of their research and the presentation of their final project.

COPU 6698 Continuation of Research Experience in Various Modalities

Zero credits. Three hours of thesis per week.

Prerequisite: COPU6697 Continuation of the Research Experience in Various Modalities for the student who requires additional time in the preparation of his/her project, which he/she submits at the end of this course. It constitutes the full academic load for the student.

COPU 6725 Seminar on Journalism I

Three credits. Three hours of seminar per week.

Prerequisites: COPU 65021, COPU 6650 Study of cultural and production issues and problems in journalism. The course can be repeated, when the subject matter is different.

COPU 6726 Seminar on Journalism II

Three credits. Three hours of seminar per week.

Prerequisites: COPU 6501, COPU 6650 Study of social, political and economic issues and problems of journalism. Students will then submit study proposals related to the main topic

and from these, the specific topics that will be discussed in depth are identified. The course can be repeated, when the subject matter is different. Face-to-face, hybrid and online



course. **Mailing Address:** 10 Ave. Universidad #1001, San Juan, PR 00925-2530 **Phone:** (787) 764-0000, extensions 85315, 85317
Email: asuntosestudiantilesfaci@upr.edu, noraida.dominguez@upr.edu
<https://faci.uprrp.edu/programas/maestria-ciencias-informacion/>

DEGREE: Master's Degree in Information Science via Distance Learning

The Graduate Program in Information Sciences and Technologies is distinguished by training professionals in tune with the new trends in the field of information and the demands of society. This master's degree has two areas of emphasis, one in Library and Information Science and the other in Knowledge Management. Both areas share core courses, cross-curricular approaches (Evidence-Based Practice and Problem-Based Learning), a Research Seminar (Knowledge Application/Capstone) and the development of an electronic professional portfolio.

ACCREDITATIONS: American Library Association (Committee on Accreditation)

TEACHERS:

Claudia D. De Souza, Ph.D., Universidad Carlos Tercero in Madrid, 2018. Assistant Professor. Open Science in the Caribbean.

Noraida Dominguez Flores, Ph.D.., Nova South Eastern University, 2010. Associate Professor. Integration of technology in teaching; Teaching information competencies and technological skills; Knowledge Management; Qualitative research; Communities of Practice

Eliut Flores Caraballo, Ph.D.., University of Texas, 1991. Professor. Integration of information technology into education; Distributed learning; Knowledge Management; Information Services Consulting

José A. Sánchez Lugo, Ed.D.., Pennsylvania State University, 1998, Professor. Effective integration of technology into education and information services; Creation of online learning communities; Qualitative research; Evaluation of processes and products; Creation of information products

Carlos Suárez Balseiro, Ph.D.., Universidad Carlos III, Madrid, 2004, Professor. Information management as a strategic resource; Basic principles of knowledge management; Evaluative bibliometrics; Quantitative methods applied to the management of information units

Betsaida Vélez Natal, D.L.S.., Columbia University, 1999. Associate Professor. Information needs of bank managers; Legal information; Archival and Records Management; Production and use of information; Qualitative research.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

Candidates for admission must meet the following requirements:

1. Have completed a baccalaureate degree in any field, or its equivalent, with an academic index of no less than 3.00 points.
2. Submit two letters of recommendation.
3. An essay in which the candidate demonstrates language proficiency, critical thinking, and the ability to organize and express ideas clearly.
4. Demonstrate proficiency in Spanish and English, as classes are generally taught in Spanish, but most of the professional literature in Library and Information Science and Technology is published in English, and visiting professors lecture in English.
5. Demonstrate mastery of writing skills and style in the use of the computer as a basic work tool.

GRADUATION REQUIREMENTS:

1. Pass 36 credits, with an academic index of no less than 3.00 points.
2. Submit an electronic portfolio, cumulative, that demonstrates your achievements and experiences through your studies.

PROGRAM OF STUDY:

AREA OF EMPHASIS: LIBRARY AND INFORMATION SCIENCE

Program Requirements	Credits
Core Courses	12
CINF 6705 Information, Knowledge and Society	3
CINF 6706 Research Methods in Information Sciences	3
CINF 6707 Information and Knowledge Technologies	3
CINF 6708 Fundamentals of Information and Knowledge Organization	3

Program Requirements	Credits
Required Courses	6
CINF 6806 Organization and Retrieval of Information and Knowledge	3
CINF 6807 Reference Products and Services	3
CINF Coding Electives	9
CINF 6XXX	3
CINF 6XXX	3
CINF 6XXX	3
Free Electives (Coding 6000 or higher on the Campus)	6
Free elective	3
Free elective	3
Capstone Course (Does not count as a full assignment)	3
CINF 6998 Research Seminar: Application of Knowledge (<i>Capstone</i>)	3
Total Credits	36

AREA OF EMPHASIS: KNOWLEDGE MANAGEMENT

Program Requirements	Credits
Core Courses	12
CINF 6705 Information, Knowledge and Society	3
CINF 6706 Research Methods in Information Sciences	3
CINF 6707 Information and Knowledge Technologies	3
CINF 6708 Fundamentals of Information and Knowledge Organization	3
Required Courses	6
CINF 6905 Fundamentals and Applications of Knowledge Management	3
CINF 6906 Strategies, Innovations and Techniques for Knowledge Management	3
CINF Coding Electives	6
CINF 6XXX	3
CINF 6XXX	3

Program Requirements	Credits
Free Electives (Coding 6000 or higher on the Campus)	9
Free elective	3
Free elective	3
Free elective	3
Capstone Course (Does not count as a full assignment)	3
CINF 6998 Research Seminar: Application of Knowledge (<i>Capstone</i>)	3
Total Credits	36

COURSE DESCRIPTION:

The course descriptions below are the most recent recorded in the Student Information System of the Río Piedras Campus Registrar's Office as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

CINF 6705 Information, Knowledge and Society

Three credits. Three hours of discussion a week.

Study of the evolution in the processes of creation, recording, processing and transmission of information and knowledge from the emergence of the first civilizations to the present day, aimed at students of Library and Information Sciences, in order to have a general and logical understanding of the characteristics and importance of information and knowledge flows. with special emphasis on contemporary society. Epistemological and disciplinary development issues, the functions of libraries and other information units, as well as the professional role of information in society are discussed. It is offered in face-to-face, hybrid, and online modalities.

CINF 6706 Research Methods in Information Sciences

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6808 Offers the opportunity to learn about the theoretical foundations of scientific research and its application in librarianship, information sciences, and knowledge management. Students are expected to develop knowledge, skills, and appreciation for research to get started in this activity and contribute to the development of the field from an interdisciplinary perspective. Opportunities will be provided to explore various quantitative and qualitative research techniques. Students will develop the theoretical and methodological bases to apply what they have learned as they advance their study program. Finally, the need and value of research in Library and Information Sciences will be analyzed, as well as its benefits in the search for solutions to specific problems in society. It includes the study of new research trends, such as evidence-based practice. It can be offered in-person, hybrid, and online.

CINF 6707 Information and Knowledge Technologies

Three credits. Three hours of lecture a week.

Corerequisite: CINF 6705 This course aimed at students of Information Sciences introduces information and communication technologies for information and knowledge management. The processes of technological convergence and the nature of the digital technology industry are addressed. It includes the study of computer technologies, networks, databases, the Internet, Web 2.0+ and other emerging technologies. Students will have the opportunity to become familiar with various technological and programmed applications and platforms used in information and knowledge units to enable them to enter the world of work with broad knowledge about trends in the field. It could be offered in the hybrid modality to expand the student experience with virtual education technologies. It can be offered in-person, online, or hybrid.

CINF 6708 Fundamentals of Information and Knowledge Organization

Three credits. Three hours of lecture a week.

Corerequisite: CINF 6705 This course aims to prepare students of the Information Science program to understand the principles, norms, and tools used for the organization of information in various media and in diverse organizational environments. These manifestations are illustrated by the study of catalogues, indexes, bibliographic networks, inventories of documents and archives, and other organizational entities. It includes the analysis of cataloguing and indexing structures, thematic representations with controlled vocabularies, bibliographic description, metadata, authority control, taxonomies, and classification systems. Relevant applicable standards are examined and discussed to alert students to trends in the field. It can be offered in-person, hybrid, and online.

CINF 6806 Organization and Retrieval of Information and Knowledge (Basic)

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6705, 6706, 6707, 6708 Discussion and analysis of the principles of information organization in theory and practice, as an important factor for its access and effective use. Through lectures, discussions, and internships, students aspiring to the Master of Information Science degree will be exposed to an in-depth examination of industry standards for intaglio and documentary description, the selection of access points, including subject descriptors and headings; and classification systems. It studies the storage of integrated information in computerized databases. Assesses the importance of knowing the community to be served in order to organize information, facilitate its rapid access and use; and meet their information needs. Reflection on the importance of the information specialist in the organization of information and the need to develop the information and the need to develop information in the workplace. Distance learning and online course.

CINF 6807 Reference Products and Services

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Introduction to the use of reference sources and the organization and provision of reference services in libraries and other information units. Aimed at students of Information Sciences, with the purpose of making them capable of working as referents or making decisions for the organization of the reference service in different contexts. Reference policies are discussed, the formation of a collection of reference, as well as the types, uses and evaluation criteria of the sources. The use of technologies in the virtual reference service and the ethical aspects for good professional performance are addressed. Face-to-face, hybrid and online course.

CINF 6905 Fundamentals and Applications of Knowledge Management

Three credits: three hours of lecture per week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Introduction to the discipline and professional field of knowledge management. The most important theoretical concepts and models are studied, and the most common strategies for managing knowledge in organizations and companies are addressed, in order to develop a deeper understanding of this new discipline. The course provides students of the Master of Information Sciences with an emphasis on knowledge management with a holistic approach to the principles and practices that affect this field.

CINF 6906 Strategies, Innovations and Techniques for Knowledge Management

Three credits. Three hours of lecture a week.

This course, aimed at students of Information Sciences, examines practical strategies and techniques for enhancing intellectual capital in organizations and businesses. The procedures and technologies required to implement the techniques are discussed, and examples in various contexts are studied. Students will carry out exercises to design and implement the most commonly used techniques and strategies in the discipline in order to provide them with the basic skills that allow them to perform in the labor field. Face-to-face, hybrid and online course.

CINF 6998 Research Seminar: Application of Knowledge (Capstone)

Three credits. Three hours of seminar per week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 The Capstone is aimed at students in the Master's program. It is an exercise in the application of knowledge in which students are integrated into the lines of research established by the professors. The process can be done in one or several stages: academic research projects could include, but are not limited to, literature review, instrument design, fieldwork, analysis or evaluation of results. Projects to create solutions to information and knowledge problems could include, but are not limited to, results analysis or innovation, documentation of best practices, and case studies. The course is aimed at producing a presentation or publication in which the results of the research or creation project are reported. Distance learning course.

OTHER COURSE DESCRIPTIONS:

CINF 6907 Knowledge Generation, Communication and Organizational Learning

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 This course addresses the processes of knowledge generation in organizations, from its discovery and capture, to its communication and exchange in its tacit and explicit form. Emphasis on communication and leadership strategies that foster organizational learning and the development of a culture of collaboration supported by technology.

CINF 6908 Innovation Management: Idea-to-Implementation/Commercialization Cycle

Three credits. Three hours of lecture a week.

This course, aimed at students of Information Sciences, analyzes dimensions and processes of creation and protection of knowledge and intellectual property in organizational innovation initiatives. Strategies and techniques are identified to stimulate innovation and best practices in order to increase the competitiveness of the organization or company.

CINF 6015 The Public Library: Its Clients and Services

Three credits. Three hours of lecture a week.

Prerequisite: CINF 6000 This course will discuss the history, goals, and functions of the public library as an essential element in the information world and as an integral part of the community it serves. The various elements that make it up and how to manage them in the most effective way will be presented. These include: the types of clients in a multicultural society, the services they offer and cooperative arrangements, library systems, the public librarian, and trends and innovations in this field. It also includes practical experiences.

CINF 6017 School Library Programs Integrated into the Curriculum

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6413 and 6000.

This course will detail the goals of the service programs offered by the school library. The various planning and organizational strategies, including their integration into the school curriculum, will be discussed. It also includes practical experiences in the implementation, development and evaluation of programmes and their activities. Distance learning course y online.

CINF 6019 The Role of the Librarian in Higher Education

Three credits. Three hours of discussion a week.

This course emphasizes the role of the librarian in institutions of higher education. It will briefly describe the origins of universities and their development in various parts of the world. It will emphasize the evolution and development of public and private higher

education in Puerto Rico. Special attention will be paid to the administrative responsibilities of the academic librarian in public and private post-secondary educational institutions.

CINF 6105 Production and Use of Information in the Humanities

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6005, 6100 and 6010.

The structure of information in the different fields of the humanities, including religion, philosophy, mythology, languages, literature, music, and other performing arts and visual arts. Access to this information and important tools. Specialized information services in the humanities. Applications

y users of information in the humanities.

CINF 6107 Production and Use of Information in the Social Sciences

Three credits. Three hours of discussion a week.

The course deals with developments and trends in the social sciences. An analysis of the research and professional methodologies used in the aforementioned disciplines. Challenges representing the creation and use of information resources in the social sciences. An analysis of these resources. Fundamental aspects of the development, management, organization and dissemination of the aforementioned resources. The challenges of libraries, information centres and information services for the social sciences.

CINF 6109 Production and Use of Information on the Economy and Trade

Three credits. Three hours of discussion a week.

Study of sources of information related to the business world. General sources for economic and demographic statistics are discussed. In addition, specific sources for various industries, such as construction, financial institutions, and tourism, are studied. The sources are discussed within the context of each sector, and their relative importance for the economy, professional organizations, research centers, and major publishers, among other aspects, is analyzed. Printed and electronic fonts are included.

CINF 6110 Production and Use of Legal Information

Three credits. Three hours of discussion a week.

Study of the main sources of information on the legal sciences of the United States, Puerto Rico and Spain. The origin and context in which they are developed are studied through the analysis of legislative, executive and judicial processes. The research process, the main publishers and providers of legal information, print and electronic in the field, the various types of libraries and the role of the legal information specialist are also the subject of study.

CINF 6115 Production and Use of Information on Latin America and the Caribbean

Three credits. Three hours of discussion a week.

The course deals with developments and trends in the area of information in Latin America and the Caribbean. Evaluation and weighting of research methodologies and research in the field. Challenges in the creation and use of information resources on Latin America and the Caribbean. Evaluation, analysis and weighting of these resources. Fundamental aspects

of the development, management, organization and dissemination of the aforementioned resources. The challenges of libraries, information centres, archives and information services for studies on Latin America and the Caribbean.

CINF 6117 Production and Use of Legal Information (Advanced)

Three credits. Three hours of discussion a week.

Prerequisite: CINF 6110 Study of the main sources of information in particular areas with entitlement. Such as labor law, tax law, environmental law, securities, and financial institutions, with emphasis on sources produced in Puerto Rico and the United States. Study of the origin of the main sources of legislation and regulations and their characteristics, differences and similarities.

CINF 6118 Production and Use of Information in Science and Technology

Three credits. Three hours of discussion a week.

Study of the development, current trends and methodology of science and technology; the research process and problems; information resources in their various formats and supports; the information habits and needs of experimental scientists and technologists; and education of information professionals specializing in science and technology.

CINF 6119 Production and Use of Government Information

Three credits. Three hours of discussion a week.

It introduces the special nature and scope of multi-type government information resources as basic information and reference material for different clients. It points to the availability of access to such information in the electronic age. It presents government infrastructures and corresponding units, at the federal, state, local, regional and international levels, in order to know the documentation that is generated. It considers how to evaluate, select, acquire, organize and develop such collections, and develop value-added products, in order to meet the needs of the clientele.

CINF 6127 Production and Use of Information from International Organizations

Three credits. Three hours of discussion a week.

Study of the sources of legal information generated by non-governmental organizations and their affiliated agencies. Their origin and the context in which they develop are studied through the analysis of the structure and functions of organizations. The process of selection and acquisition of resources is also studied. It includes organizations such as the United Nations, the Association of Caribbean States, and CARICOM.

CINF 6208 Computerized Systems for Integrated Document Management

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of the technologies available to manage documents in an integrated way using computerized technologies. The complexity of many organizations' operational models requires the implementation of technologies that simplify

and automate transaction processing and information flow. Information specialists must know the technologies needed to organize and retrieve digital information, manage the flow of information in document management systems, and manage an organization's electronic documents. Face-to-face, hybrid and online course.

CINF 6209 Organization and Management of Documents and Access to Information

Three credits. Three hours of discussion a week.

Prerequisites: Have completed the information skills modules offered by EGCTI.

Corerequisite: CINF 6705 This course examines concepts and practices related to the organization and management of records in archives, libraries and documentation centers and other organizations. It includes the study of access systems and methods of description and dissemination of information. Among the topics to be discussed are: organization and description of collections, documentary funds and other materials, preparation of descriptive guides and inventories and systems for the management of funds and collections. The use of different information industry standards for the effective description and organization of documents will be highlighted. The student will have the opportunity to put into practice the methodologies presented through practical class work, assignments and a final project. The challenges presented by the different information technologies for the management of document preservation will also be discussed. Hybrid course.

CINF 6215 Introduction to Computerized Database Design

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of conceptualizing computerized databases. Each student will apply this knowledge by designing and programming a database and its corresponding documentation. Students will learn this skill in the context of their work as information specialists

and with a view to enabling them to design or evaluate databases for libraries and other information centres.

CINF 6216 Technical Services in Law Libraries

Three credits. Three hours of discussion a week.

Study of the various phases of technical services-development and management of collections, organization of information resources in the context of legal libraries. The particularities of printed and electronic legal collections, the most important publishing houses, and the influence of information technology on development are discussed.

y collection management.

CINF 6217 Advanced Computerized Database Design

Three credits. Three hours of discussion a week.

In this course, students will have the opportunity to deepen the conceptualization of and computerized database programming. Each student will develop an advanced project, designing and programming a related database and its corresponding documentation.

Students will learn these skills in the context of their work as information specialists and with

a view to training them to design or evaluate databases for libraries and other information centres.

CINF 6300 Information Technology I

Two credits. Two hours of discussion a week.

Introduction to information technologies, the value of information in different eras, the basic elements of this science, its development and its projections.

CINF 6410 Development of an Information Services Consulting Practice

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of consulting practice in information systems and services and will have the opportunity to apply these principles in the development of a project for a particular client.

CINF 6415 Strategic Planning (Workshop)

A credit. One hour of discussion a week.

Prerequisite: CINF 6000 This workshop will familiarize the student with the procedures and techniques of strategic planning.

CINF 6416 The School Library

Three credits. Three hours of discussion a week.

This course will discuss the objectives and functions of the school library as an essential element in the world of information and an integral part of education. The various elements that make it up and how to manage them in the most effective way will be presented. It will include hands-on experiences. Distance learning course.

CINF 6417 Document Manager

Three credits. Three hours of discussion a week.

This course introduces the effective administrative management of a document manager, in theory and practice with special emphasis on the reality of Puerto Rico, the United States and Latin America. The organizational structure of the organizational unit, the importance of systematic planning, management, and evaluation. It includes the study of the phases of the document life cycle and its reporting, creation, evaluation and retention. In addition, the description, organization, storage, prevention and management of disasters, dissemination and use, disposition or preservation of documents and the parameters that govern these decisions are considered. The planning, development and evaluation of public projects and strategies is presented and studied. Requires laboratory and an individual work project or collective. This course will be offered in hybrid mode.

CINF 6419 The Archives: Organization, Development, and Legislation

Two credits. Two hours of discussion a week.

The course will discuss the process of evaluating, selecting, and organizing public and private archives, the preparation of policies for the development, and the management of different types of public and private archive formats. The development and administration of public and private archives will be done within a historical perspective. Face-to-face, hybrid and online course.

CINF 6426 Library Administration

Three credits. Three hours of discussion a week.

It introduces the student to various administrative environments of academic and public libraries and information centers; and it offers the opportunity to acquire knowledge and skills to select appropriate and effective strategies for planning, organization, development and continuous evaluation for the different typologies, in the face of the challenges of the 21st century. It aims at the development of proactive attitudes for change management, with frameworks and direction for problem solving and responsible decision-making. It highlights the importance of integration, of group work, for the staff working in the information entity. Face-to-face, hybrid and online course.

CINF 6427 Information Management as a Strategic Resource

Three credits. Three hours of discussion a week.

This course will emphasize the strategic value of information to organizations. It will describe the processes aimed at identifying, categorizing, and evaluating information resources in an organization. It will examine the use of these resources by the various components of the organization and the results that are generated from that use. The use of information resources will be evaluated with a view to developing effective strategies to improve the management of these resources.

CINF 6429 The Special Library

Three credits. Three hours of discussion a week.

Study of special libraries and information centres and their various manifestations. Discussion of historical and contemporary development, including the most important elements of special libraries, such as management, budgeting, types of clientele, development of collections, both print and electronic, customer services, professional ethics, and the role of the information specialist.

CINF 6507 Conservation, Preservation and Restoration of Documents

Three credits. Three hours of discussion a week.

This is an introductory course to the administration of conservation and preservation services in information centers. It presents an overview of the fundamental aspects of preventive conservation, mainly in libraries and archives, and establishes evaluation parameters for decision-making regarding the intervention of documentary materials by affiliated professionals. The course addresses the complexities of preservation planning by taking into account the intrinsic needs of the most common supports and media, in light of the agents of deterioration that most affect documentary collections in the tropics. Face-to-face, hybrid and online course.

CINF 6800 Clinical Experiences in Information Services

A credit. One hour of workshop per week.

The student will be assigned to a library, documentation and information center, or archive for three hours, once a week. You will work under the supervision of a professional librarian or information specialist in one or two service areas, previously agreed with the faculty supervising the clinic.

CINF 6805 Clinical Experiences in the School Library

A credit. One hour of workshop per week.

The main purpose of this course is to provide students with hands-on experience in offering school library services integrated into the curriculum. Students will develop activities of the Reading Orientation Program and the Program for the Development of Information and Critical Thinking Skills within the aforementioned context. Other library services will also be offered by students. Distance learning and online course.

CINF 6808 User and Information Needs Studies

Three credits. Three hours of discussion a week.

Corequisites: CINF 6705, CINF 6706 Introduction to concepts, methods, and techniques related to user studies

and the diagnosis of information needs. The study of information behavior and use of information is considered in an important way. The evolution of user studies and some of the models used for the study of information behavior are analyzed. The needs and habits of using information of different user communities are exposed in the context of different information units. The importance of these studies for a library practice focused on the needs of users and the research activity that generates the necessary evidence for such practice is emphasized. Distance learning course.

CINF 6809 Selection and Acquisition of Knowledge Information Resources

Three credits. Three lecture hours per week Prerequisites: CINF 6706, 6707, 6708, CINF 6806, 6807 This course introduces students in the Information Science program, to topics about the process of collection development, including the preparation of collection development policy, selection, censorship, and intellectual freedom, the evaluation and discarding of collections, the sharing of information resources, the negotiation of licenses for use, the maintenance, preservation and conservation of collections. The course examines the book market and the information industry; Organizations

y related partnerships; awards and sources of information in this area. Exposes students to the processes of purchase, exchange, donations and legal deposit; and examines the role of vendors and suppliers of information resources. It presents procurement automation as a working model. This course can be offered in both face-to-face and distance learning modalities.

CINF 6810 Organization and Retrieval of Information and Knowledge (Advanced)

Three credits. Three hours of lecture a week.

Prerequisite: CINF 6806, CINF 6705, CINF 6706, CINF 6707, CINF 6808 In-depth and extensive discussion and analysis of the description of and access to electronic and other multitype resources. It includes bibliographic control of electronic serials, e-books, video recordings, among others, and their description using professional standards such as RAAC2 and RDA. The control of authorities in the subjects and the classification of the Library of Congress (LCC) is discussed at length. In addition, metadata schemas such as

Dublin Core and Metadata Object Description (MODS) are explored. Practice will be provided in the use of the different tools so that students can perform effectively in the new work environments. Face-to-face, hybrid and online course.

CINF 6815 Information and Technological Competencies

Three credits. Three hours of lecture a week.

Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708 This course discusses the process and strategies for the development of informational and technological competencies. Aimed at students of Library and Information Sciences, so that they are able to design a program of information skills and critical thinking. It also includes how to evaluate whether the aforementioned skills were achieved and, as well as, practical experiences in the different models. It can be offered in person or remotely.

CINF 6816 Information Services Administration

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Lecture and discussion on the basic concepts of library and documentation and information center administration, aimed at students of information-related professions, so that they can make informed decisions in their future areas of work. It includes terminology, planning process, organization, development, innovation, and continuous evaluation. Concepts of management, leadership, human resources, physical facilities, technological applications, finance, and services are discussed.

CINF 6995 Special Topics in Information Science and Technology

One to three credits.

Prerequisite: Basic courses Advanced seminar dealing with various topics of current interest in the field of information. Its duration varies according to the number of credits. Can be repeated with credits.

CINF 6996 Independent Study

One to three credits.

Prerequisite: Core Courses Intensive one-on-one study of a topic or problem in the field of information under the supervision of a faculty member. As a final result, you will submit a written paper that meets the requirements of a research paper.

CINF 6997 Workshop on Information Science and Technology

One to three credits.

Prerequisite: Core courses.

Intensive study on an aspect of library and information science under the direction of an expert in that field. The duration varies according to the number of credits. Can be repeated with credit.



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DEGREE: Post Baccalaureate Certificate Master Librarian - Distance Learning

The Post Baccalaureate Master Librarian Certificate allows teachers and assistant librarians in Puerto Rico to take courses with the flexibility and convenience of distance learning to become certified in this specialty. Their courses are occasionally complemented by some face-to-face sessions or through videoconference. The use of chat rooms or discussion forums and emails provide students with constant interaction with their professors and fellow students to participate in their learning process.

ACCREDITATIONS:

American Library Association (Committee on Accreditation)

TEACHERS:

Claudia D. De Souza, Ph.D., Universidad Carlos Tercero in Madrid, 2018. Assistant Professor. Open Science in the Caribbean.

Noraida Dominguez Flores, Ph.D. , Nova South Eastern University, 2010. Associate Professor. Integration of technology in teaching; Teaching information competencies and technological skills; Knowledge Management; Qualitative research; Communities of Practice

Eliut Flores Caraballo, Ph.D. , University of Texas, 1991. Professor. Integration of information technology into education; Distributed learning; Knowledge Management; Information Services Consulting

José A. Sánchez Lugo, Ed.D. , Pennsylvania State University, 1998, Professor. Effective integration of technology into education and information services; Creation of online learning communities; Qualitative research; Evaluation of processes and products; Creation of information products

Carlos Suárez Balseiro, Ph.D. , Universidad Carlos III, Madrid, 2004, Professor. Information management as a strategic resource; Basic principles of knowledge management; Evaluative bibliometrics; Quantitative methods applied to the management of information units

Betsaida Vélez Natal, D.L.S. , Columbia University, 1999. Associate Professor. Information needs of bank managers; Legal information; Archival and Records Management; Production and use of information; Qualitative research

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Program-Specific Requirements

1. Have a general index of 3.00 points.
2. Possess a bachelor's degree in education or basic teacher's license or possess a bachelor's degree in any discipline, with library work experience.

GRADUATION REQUIREMENTS:

Complete 23 credits with an average of 3.00 points.

PROGRAM OF STUDY:

Program Requirements	Credits
CINF 6705 Information, Knowledge and Society	3
CINF 6808 User and Information Needs Studies	3
CINF 6815 Information and Technological Competencies	3
CINF 6017 School Library Programs Integrated into the Curriculum	3
CINF 6809 Selection and Acquisition of Information and Knowledge Resources	3
CINF 6806 Organization and Retrieval of Information and Knowledge (Basic)	3
CINF 6309 Internet as a Curricular Resource	1
CINF 6416 The School Library	3
CINF 6805 Clinical Experiences in the School Library	1
Total Credits	23

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

CINF 6705 Information, Knowledge and Society

Three credits. Three hours of discussion a week.

Study of the evolution in the processes of creation, recording, processing and transmission of information and knowledge from the emergence of the first civilizations to the present day, aimed at students of Library and Information Sciences, in order to have a general and logical understanding of the characteristics and importance of information and knowledge flows. with special emphasis on contemporary society. Epistemological and disciplinary development issues, the functions of libraries and other information units, as well as the professional role of information in society are discussed. It is offered in face-to-face, hybrid, and online modalities.

CINF 6808 User and Information Needs Studies

Three credits. Three hours of discussion a week.

Corequisites: CINF 6705, CINF 6706 Introduction to concepts, methods, and techniques related to user studies

and the diagnosis of information needs. The study of information behavior and use of information is considered in an important way. The evolution of user studies and some of the models used for the study of information behavior are analyzed. The needs and habits of using information of different user communities are exposed in the context of different information units. The importance of these studies for a library practice focused on the needs of users and the research activity that generates the necessary evidence for such practice is emphasized. Distance learning course.

CINF 6815 Information and Technological Competencies

Three credits. Three hours of lecture a week.

Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708 This course discusses the process and strategies for the development of informational and technological competencies Aimed at students of Library and Information Sciences, so that they are able to design a program of information skills and critical thinking. It also includes how to evaluate whether the aforementioned skills were achieved and, as well as, practical experiences in the different models. It can be offered in person or remotely.

CINF 6017 School Library Programs Integrated into the Curriculum

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6413 and 6000.

This course will detail the goals of the service programs offered by the school library. The various planning and organizational strategies, including their integration into the school curriculum, will be discussed. It also includes practical experiences in the implementation, development and evaluation of programmes and their activities. Distance learning course y online.

CINF 6809 Selection and Acquisition of Knowledge Information Resources

Three credits. Three lecture hours per week Prerequisites: CINF 6706, 6707, 6708, CINF 6806, 6807 This course introduces students in the Information Science program, to topics about the process of collection development, including the preparation of collection

development policy, selection, censorship, and intellectual freedom, the evaluation and discarding of collections, the sharing of information resources, the negotiation of licenses for use, the maintenance, preservation and conservation of collections. The course examines the book market and the information industry; Organizations

y related partnerships; awards and sources of information in this area. Exposes students to the processes of purchase, exchange, donations and legal deposit; and examines the role of vendors and suppliers of information resources. It presents procurement automation as a working model. This course can be offered in both face-to-face and distance learning modalities.

CINF 6806 Organization and Retrieval of Information and Knowledge (Basic)

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6705, 6706, 6707, 6708 Discussion and analysis of the principles of information organization in theory and practice, as an important factor for its access and effective use. Through lectures, discussions, and internships, students aspiring to the Master of Information Science degree will be exposed to an in-depth examination of industry standards for intaglio and documentary description, the selection of access points, including subject descriptors and headings; and classification systems. It studies the storage of integrated information in computerized databases. Assesses the importance of knowing the community to be served in order to organize information, facilitate its rapid access and use; and meet their information needs. Reflection on the importance of the information specialist in the organization of information and the need to develop the information and the need to develop information in the workplace. Distance learning and online course.

CINF 6309 Internet as a Curricular Resource

A credit. One hour of discussion a week.

Prerequisite: CINF 6000.

Introduction to the Internet and the search engines that are available on it. It provides the librarian with the opportunity to learn how to search for information in a variety of local and foreign sources, and integrate them into coordinated classroom activities. The course includes lecture sessions, demonstrations, and laboratory sessions with the use of computers. Distance learning course.

CINF 6416 The School Library

Three credits. Three hours of discussion a week.

This course will discuss the objectives and functions of the school library as an essential element in the world of information and an integral part of education. The various elements that make it up and how to manage them in the most effective way will be presented. It will include hands-on experiences. Distance learning course.

CINF 6805 Clinical Experiences in the School Library

A credit. One hour of workshop per week.

The main purpose of this course is to provide students with hands-on experience in offering school library services integrated into the curriculum. Students will develop activities of the Reading Orientation Program and the Program for the Development of Information and Critical Thinking Skills within the aforementioned context. Other library services will also be offered by students. Distance learning and online course.

OTHER COURSE DESCRIPTIONS:**CINF 6015 The Public Library: Its Clients and Services**

Three credits. Three hours of lecture a week.

Prerequisite: CINF 6000 This course will discuss the history, goals, and functions of the public library as an essential element in the information world and as an integral part of the community it serves. The various elements that make it up and how to manage them in the most effective way will be presented. These include: the types of clients in a multicultural society, the services they offer and cooperative arrangements, library systems, the public librarian, and trends and innovations in this field. It also includes practical experiences.

CINF 6019 The Role of the Librarian in Higher Education

Three credits. Three hours of discussion a week.

This course emphasizes the role of the librarian in institutions of higher education. It will briefly describe the origins of universities and their development in various parts of the world. It will emphasize the evolution and development of public and private higher education in Puerto Rico. Special attention will be paid to the administrative responsibilities of the academic librarian in public and private post-secondary educational institutions. Face-to-face and hybrid course.

CINF 6105 Production and Use of Information in the Humanities

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6005, 6100 and 6010.

The structure of information in the different fields of the humanities, including religion, philosophy, mythology, languages, literature, music, and other performing arts and visual arts. Access to this information and important tools. Specialized information services in the humanities. Applications

y users of information in the humanities.

CINF 6107 Production and Use of Information in the Social Sciences

Three credits. Three hours of discussion a week.

The course deals with developments and trends in the social sciences. An analysis of the research and professional methodologies used in the aforementioned disciplines.

Challenges representing the creation and use of information resources in the social sciences. An analysis of these resources. Fundamental aspects of the development,

management, organization and dissemination of the aforementioned resources. The challenges of libraries, information centres and information services for the social sciences.

CINF 6109 Production and Use of Information on the Economy and Trade

Three credits. Three hours of discussion a week.

Study of sources of information related to the business world. General sources for economic and demographic statistics are discussed. In addition, specific sources for various industries, such as construction, financial institutions, and tourism, are studied. The sources are discussed within the context of each sector and their relative importance for the economy, professional organizations, research centers, and major publishers, among other aspects, are analyzed. Printed and electronic fonts are included.

CINF 6110 Production and Use of Legal Information

Three credits. Three hours of discussion a week.

Study of the main sources of information on the legal sciences of the United States, Puerto Rico and Spain. The origin and context in which they are developed are studied through the analysis of legislative, executive and judicial processes. The research process, the main publishers and providers of legal information, print and electronic in the field, the various types of libraries and the role of the legal information specialist are also the subject of study.

CINF 6115 Production and Use of Information on Latin America and the Caribbean

Three credits. Three hours of discussion a week.

The course deals with developments and trends in the area of information in Latin America and the Caribbean. Evaluation and weighting of research methodologies and research in the field. Challenges in the creation and use of information resources on Latin America and the Caribbean. Evaluation, analysis and weighting of these resources. Fundamental aspects of the development, management, organization and dissemination of the aforementioned resources. The challenges of libraries, information centres, archives and information services for studies on Latin America and the Caribbean.

CINF 6117 Production and Use of Legal Information (Advanced)

Three credits. Three hours of discussion a week.

Prerequisite: CINF 6110 Study of the main sources of information in particular areas with entitlement. Such as labor law, tax law, environmental law, securities, and financial institutions, with emphasis on sources produced in Puerto Rico and the United States. Study of the origin of the main sources of legislation and regulations and their characteristics, differences and similarities.

CINF 6118 Production and Use of Information in Science and Technology

Three credits. Three hours of discussion a week.

Study of the development, current trends and methodology of science and technology; the research process and problems; information resources in their various formats and supports; the information habits and needs of experimental scientists and technologists; and

education of information professionals specializing in science and technology.

CINF 6119 Production and Use of Government Information

Three credits. Three hours of discussion a week.

It introduces the special nature and scope of multi-type government information resources as basic information and reference material for different clients. It points to the availability of access to such information in the electronic age. It presents government infrastructures and corresponding units, at the federal, state, local, regional and international levels, in order to know the documentation that is generated. It considers how to evaluate, select, acquire, organize and develop such collections, and develop value-added products, in order to meet the needs of the clientele.

CINF 6127 Production and Use of Information from International Organizations

Three credits. Three hours of discussion a week.

Study of the sources of legal information generated by non-governmental organizations and their affiliated agencies. Their origin and the context in which they develop are studied through the analysis of the structure and functions of organizations. The process of selection and acquisition of resources is also studied. It includes organizations such as the United Nations, the Association of Caribbean States, and CARICOM.

CINF 6208 Computerized Systems for Integrated Document Management

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of the technologies available to manage documents in an integrated way using computerized technologies. The complexity of many organizations' operational models requires the implementation of technologies that simplify and automate transaction processing and information flow. Information specialists must know the technologies needed to organize and retrieve digital information, manage the flow of information in document management systems, and manage an organization's electronic documents. Face-to-face, hybrid and online course.

CINF 6209 Organization and Management of Documents and Access to Information

Three credits. Three hours of discussion a week.

Prerequisites: Have completed the information skills modules offered by EGCTI.

Correquisite: CINF 6705 This course examines concepts and practices related to the organization and management of records in archives, libraries and documentation centers and other organizations. It includes the study of access systems and methods of description and dissemination of information. Among the topics to be discussed are: organization and description of collections, documentary funds and other materials, preparation of descriptive guides and inventories and systems for the management of funds and collections. The use of different information industry standards for the effective description and organization of documents will be highlighted. The student will have the opportunity to put into practice the

methodologies presented through practical class work, assignments and a final project. The challenges presented by the different information technologies for the management of document preservation will also be discussed. Hybrid course.

CINF 6215 Introduction to Computerized Database Design

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of conceptualizing computerized databases. Each student will apply this knowledge by designing and programming a database and its corresponding documentation. Students will learn this skill in the context of their work as information specialists

and with a view to enabling them to design or evaluate databases for libraries and other information centres.

CINF 6216 Technical Services in Law Libraries

Three credits. Three hours of discussion a week.

Study of the various phases of technical services-development and management of collections, organization of information resources in the context of legal libraries. The particularities of printed and electronic legal collections, the most important publishing houses, and the influence of information technology on development are discussed.

y collection management.

CINF 6217 Advanced Computerized Database Design

Three credits. Three hours of discussion a week.

In this course, students will have the opportunity to deepen the conceptualization of and computerized database programming. Each student will develop an advanced project, designing and programming a related database and its corresponding documentation. Students will learn these skills in the context of their work as information specialists and with a view to training them to design or evaluate databases for libraries and other information centres.

CINF 6300 Information Technology I

Two credits. Two hours of discussion a week.

Introduction to information technologies, the value of information in different eras, the basic elements of this science, its development and its projections.

CINF 6410 Development of an Information Services Consulting Practice

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of consulting practice in information systems and services and will have the opportunity to apply these principles in the development of a project for a particular client.

CINF 6415 Strategic Planning (Workshop)

A credit. One hour of discussion a week.

Prerequisite: CINF 6000 This workshop will familiarize the student with the procedures and techniques of strategic planning.

CINF 6417 Document Manager

Three credits. Three hours of discussion a week.

This course introduces the effective administrative management of a document manager, in theory and practice with special emphasis on the reality of Puerto Rico, the United States and Latin America. The organizational structure of the organizational unit, the importance of systematic planning, management, and evaluation. It includes the study of the phases of the document life cycle and its reporting, creation, evaluation and retention. In addition, the description, organization, storage, prevention and management of disasters, dissemination and use, disposition or preservation of documents and the parameters that govern these decisions are considered. The planning, development and evaluation of public projects and strategies is presented and studied. Requires laboratory and an individual work project or collective. This course will be offered in hybrid mode.

CINF 6419 The Archives: Organization, Development, and Legislation

Two credits. Two hours of discussion a week.

The course will discuss the process of evaluating, selecting, and organizing public and private archives, the preparation of policies for the development, and the management of different types of public and private archive formats. The development and administration of public and private archives will be done within a historical perspective. Face-to-face, hybrid and online course.

CINF 6426 Library Administration

Three credits. Three hours of discussion a week.

It introduces the student to various administrative environments of academic and public libraries and information centers; and it offers the opportunity to acquire knowledge and skills to select appropriate and effective strategies for planning, organization, development and continuous evaluation for the different typologies, in the face of the challenges of the 21st century. It aims at the development of proactive attitudes for change management, with frameworks and direction for problem solving and responsible decision-making. It highlights the importance of integration, of group work, for the staff working in the information entity. Face-to-face, hybrid and online course.

CINF 6427 Information Management as a Strategic Resource

Three credits. Three hours of discussion a week.

This course will emphasize the strategic value of information to organizations. It will describe the processes aimed at identifying, categorizing, and evaluating information resources in an organization. It will examine the use of these resources by the various components of the organization and the results that are generated from that use. The use of information resources will be evaluated with a view to developing effective strategies to improve the management of these resources.

CINF 6429 The Special Library

Three credits. Three hours of discussion a week.

Study of special libraries and information centres and their various manifestations. Discussion of historical and contemporary developments, including the most important elements of special libraries, such as management, budgeting, types of clientele,

development of collections, both print and electronic, customer services, professional ethics, and the role of the information specialist

CINF 6507 Conservation, Preservation and Restoration of Documents

Three credits. Three hours of discussion a week.

This is an introductory course to the administration of conservation and preservation services in information centers. It presents an overview of the fundamental aspects of preventive conservation, mainly in libraries and archives, and establishes evaluation parameters for decision-making regarding the intervention of documentary materials by affiliated professionals. The course addresses the complexities of preservation planning by taking into account the intrinsic needs of the most common supports and media, in light of the agents of deterioration that most affect documentary collections in the tropics. The course will be offered in hybrid mode. Face-to-face, hybrid and online course.

CINF 6706 Research Methods in Information Sciences

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6808 Offers the opportunity to learn about the theoretical foundations of scientific research and its application in librarianship, information sciences, and knowledge management. Students are expected to develop knowledge, skills, and appreciation for research to get started in this activity and contribute to the development of the field from an interdisciplinary perspective. Opportunities will be provided to explore various quantitative and qualitative research techniques. Students will develop the theoretical and methodological bases to apply what they have learned as they advance their study program. Finally, the need and value of research in Library and Information Sciences will be analyzed, as well as its benefits in the search for solutions to specific problems in society. It includes the study of new research trends, such as evidence-based practice. It can be offered in-person, hybrid, and online

CINF 6707 Information and Knowledge Technologies

Three credits. Three hours of lecture a week.

Correquisite: CINF 6705 This course aimed at students of Information Sciences introduces information and communication technologies for information and knowledge management. The processes of technological convergence and the nature of the digital technology industry are addressed. It includes the study of computer technologies, networks, databases, the Internet, Web 2.0+ and other emerging technologies. Students will have the opportunity to become familiar with various technological and programmed applications and platforms used in information and knowledge units to enable them to enter the world of work with broad knowledge about trends in the field. It could be offered in the hybrid modality to expand the student experience with virtual education technologies. It can be offered in-person, online, or hybrid.

CINF 6708 Fundamentals of Information and Knowledge Organization

Three credits. Three hours of lecture a week.

Corerequisite: CINF 6705 This course aims to prepare students of the Information Science program to understand the principles, norms, and tools used for the organization of information in various media and in diverse organizational environments. These manifestations are illustrated by the study of catalogues, indexes, bibliographic networks, inventories of documents and archives, and other organizational entities. It includes the analysis of cataloguing and indexing structures, thematic representations with controlled vocabularies, bibliographic description, metadata, authority control, taxonomies, and classification systems. Relevant applicable standards are examined and discussed to alert students to trends in the field. It can be offered in-person, hybrid, and online.

CINF 6800 Clinical Experiences in Information Services

A credit. One hour of workshop per week.

The student will be assigned to a library, documentation and information center, or archive for three hours, once a week. You will work under the supervision of a professional librarian or information specialist in one or two service areas, previously agreed with the faculty supervising the clinic.

CINF 6807 Reference Products and Services

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Introduction to the use of reference sources and the organization and provision of reference services in libraries and other information units. Aimed at students of Information Sciences, with the purpose of making them capable of working as referents or making decisions for the organization of the reference service in different contexts. Reference policies, the formation of a reference collection, as well as the types, uses, and evaluation criteria of sources are discussed. The use of technologies in the virtual reference service and the ethical aspects for good professional performance are addressed. Face-to-face, hybrid and online course.

CINF 6810 Organization and Retrieval of Information and Knowledge (Advanced)

Three credits. Three hours of lecture a week.

Prerequisite: CINF 6806, CINF 6705, CINF 6706, CINF 6707, CINF 6808 In-depth and extensive discussion and analysis of the description of and access to electronic and other multitype resources. It includes bibliographic control of electronic serials, e-books, video recordings, among others, and their description using professional standards such as RAAC2 and RDA. The control of authorities in the subjects and the classification of the Library of Congress (LCC) is discussed at length. In addition, metadata schemas such as Dublin Core and Metadata Object Description (MODS) are explored. Practice will be provided in the use of the different tools so that students can perform effectively in the new work environments. Face-to-face, hybrid and online course.

CINF 6816 Information Services Administration

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Lecture and discussion on the basic concepts of library and documentation and information center administration, aimed at students of information-related professions, so that they can make informed decisions in their future areas of work. It includes terminology, planning process, organization, development, innovation, and continuous evaluation. Concepts of management, leadership, human resources, physical facilities, technological applications, finance, and services are discussed.

CINF 6905 Fundamentals and Applications of Knowledge Management

Three credits: three hours of lecture per week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Introduction to the discipline and professional field of knowledge management. The most important theoretical concepts and models are studied, and the most common strategies for managing knowledge in organizations and companies are addressed, in order to develop a deeper understanding of this new discipline. The course provides students of the Master of Information Sciences with an emphasis on knowledge management with a holistic approach to the principles and practices that affect this field.

CINF 6906 Strategies, Innovations and Techniques for Knowledge Management

Three credits. Three hours of lecture a week.

This course, aimed at students of Information Sciences, examines practical strategies and techniques for enhancing intellectual capital in organizations and businesses. The procedures and technologies required to implement the techniques are discussed, and examples in various contexts are studied. Students will carry out exercises to design and implement the most commonly used techniques and strategies in the discipline in order to provide them with the basic skills that allow them to perform in the labor field. Face-to-face, hybrid and online course.

CINF 6907 Knowledge Generation, Communication and Organizational Learning

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 This course addresses the processes of knowledge generation in organizations, from its discovery and capture, to its communication and exchange in its tacit and explicit form. Emphasis on communication and leadership strategies that foster organizational learning and the development of a culture of collaboration supported by technology. Face-to-face and hybrid course.

CINF 6908 Innovation Management: Idea-to-Implementation/Commercialization Cycle

Three credits. Three hours of lecture a week.

This course, aimed at students of Information Sciences, analyzes dimensions and processes of creation and protection of knowledge and intellectual property in organizational innovation initiatives. Strategies and techniques are identified to stimulate innovation and

best practices in order to increase the competitiveness of the organization or company.

CINF 6995 Special Topics in Information Science and Technology

One to three credits.

Prerequisite: Basic courses Advanced seminar dealing with various topics of current interest in the field of information. Its duration varies according to the number of credits. Can be repeated with credits

CINF 6996 Independent Study

One to three credits.

Prerequisite: Core Courses Intensive one-on-one study of a topic or problem in the field of information under the supervision of a faculty member. As a final result, you will submit a written paper that meets the requirements of a research paper.

CINF 6997 Workshop on Information Science and Technology

One to three credits.

Prerequisite: Core courses.

Intensive study on an aspect of library and information science under the direction of an expert in that field. The duration varies according to the number of credits. Can be repeated with credit.

CINF 6998 Research Seminar: Application of Knowledge (Capstone)

Three credits. Three hours of seminar per week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708.

The Capstone is aimed at students in the Master's program. It is an exercise in the application of knowledge in which students are integrated into the lines of research established by the professors. The process can be done in one or several stages: academic research projects could include, but are not limited to, literature review, instrument design, fieldwork, analysis or evaluation of results. Projects to create solutions to information and knowledge problems could include, but are not limited to, results analysis or innovation, documentation of best practices, and case studies. The course is aimed at producing a presentation or publication in which the results of the research or creation project are reported. Distance learning course.



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<https://faci.uprrp.edu/programas/administrador-documentos-archivos/>

DEGREE: Post Baccalaureate Certificate in Records and Archives Administrator

The Post-Baccalaureate Certificate in Records and Archives Administrator allows you to take courses with the flexibility and comfort of distance learning to become certified in this specialty. Their courses are occasionally complemented by some face-to-face sessions or through videoconference. The use of chat rooms or discussion forums and emails provide students with constant interaction with their professors and fellow students to participate in their learning process.

ACCREDITATIONS: American Library Association (Committee on Accreditation)

TEACHERS:

Claudia D. De Souza, Ph.D., Universidad Carlos Tercero in Madrid, 2018. Assistant Professor. Open Science in the Caribbean.

Noraida Dominguez Flores, Ph.D., Nova South Eastern University, 2010. Associate Professor. Integration of technology in teaching; Teaching information competencies and technological skills; Knowledge Management; Qualitative research; Communities of Practice

Eliut Flores Caraballo, Ph.D., University of Texas, 1991. Professor. Integration of information technology into education; Distributed learning; Knowledge Management; Information Services Consulting

José A. Sánchez Lugo, Ed.D., Pennsylvania State University, 1998, Professor. Effective integration of technology into education and information services; Creation of online learning communities; Qualitative research; Evaluation of processes and products; Creation of information products

Carlos Suárez Balseiro, Ph.D., Universidad Carlos III, Madrid, 2004, Professor. Information management as a strategic resource; Basic principles of knowledge management; Evaluative bibliometrics; Quantitative methods applied to the management of information units

Betsaida Vélez Natal, D.L.S., Columbia University, 1999. Associate Professor. Information needs of bank managers; Legal information; Archival and Records Management; Production and use of information; Qualitative research

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Program-Specific Requirements

1. Have a general index of 3.00 points.
2. Possess a bachelor's degree in education or basic teacher's license or possess a bachelor's degree in any discipline, with library work experience.

GRADUATION REQUIREMENTS:

Complete 18 credits with an average of 3.00 points.

PROGRAM OF STUDY:

Program Requirements	Credits
CINF 6208 Computerized Systems for Integrated Document Management	3
CINF 6209 Organization and Management of Documents and Access to Information	3
CINF 6417 Document Manager	3
CINF 6419 The Archives: Organization, Development, and Legislation	2
CINF 6507 Conservation, Preservation and Restoration of Documents	3
CINF 6707 Information and Knowledge Technologies	3
CINF 6800 Clinical Experiences in Information Services	1
Total Credits	18

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

CINF 6208 Computerized Systems for Integrated Document Management

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of the technologies available to manage documents in an integrated way using computerized technologies. The complexity of many organizations' operational models requires the implementation of technologies that simplify and automate transaction processing and information flow. Information specialists must know the technologies needed to organize and retrieve digital information, manage the flow of information in document management systems, and manage an organization's electronic documents. Face-to-face, hybrid and online course.

CINF 6209 Organization and Management of Documents and Access to Information

Three credits. Three hours of discussion a week.

Prerequisites: Have completed the information skills modules offered by EGCTI.

Correquisite: CINF 6705 This course examines concepts and practices related to the organization and management of records in archives, libraries and documentation centers and other organizations. It includes the study of access systems and methods of description and dissemination of information. Among the topics to be discussed are: organization and description of collections, documentary funds and other materials, preparation of descriptive guides and inventories and systems for the management of funds and collections. The use of different information industry standards for the effective description and organization of documents will be highlighted. The student will have the opportunity to put into practice the methodologies presented through practical class work, assignments and a final project. The challenges presented by the different information technologies for the management of document preservation will also be discussed. Hybrid course.

CINF 6417 Document Manager

Three credits. Three hours of discussion a week.

This course introduces the effective administrative management of a document manager, in theory and practice with special emphasis on the reality of Puerto Rico, the United States and Latin America. The organizational structure of the organizational unit, the importance of systematic planning, management, and evaluation. It includes the study of the phases of the document life cycle and its reporting, creation, evaluation and retention. In addition, the description, organization, storage, prevention and management of disasters, dissemination and use, disposition or preservation of documents and the parameters that govern these decisions are considered. The planning, development and evaluation of public projects and strategies is presented and studied. Requires laboratory and an individual work project or collective. This course will be offered in hybrid mode.

CINF 6419 The Archives: Organization, Development, and Legislation

Two credits. Two hours of discussion a week.

The course will discuss the process of evaluating, selecting, and organizing public and private archives, the preparation of policies for the development, and the management of different types of public and private archive formats. The development and administration of public and private archives will be done within a historical perspective. Face-to-face, hybrid and online course.

CINF 6507 Conservation, Preservation and Restoration of Documents

Three credits. Three hours of discussion a week.

This is an introductory course to the administration of conservation services and preservation in information centres. It presents an overview of the fundamental aspects of preventive conservation, mainly in libraries and archives, and establishes evaluation parameters for decision-making regarding the intervention of documentary materials by affiliated professionals. The course addresses the complexities of preservation planning by taking into account the intrinsic needs of the most common supports and media, in light of the agents of deterioration that most affect documentary collections in the tropics. Face-to-face, hybrid and online course.

CINF 6707 Information and Knowledge Technologies

Three credits. Three hours of lecture a week.

Corerequisite: CINF 6705 This course aimed at students of Information Sciences introduces information and communication technologies for information and knowledge management. The processes of technological convergence and the nature of the digital technology industry are addressed. It includes the study of computer technologies, networks, databases, the Internet, Web 2.0+ and other emerging technologies. Students will have the opportunity to become familiar with various technological and programmed applications and platforms used in information and knowledge units to enable them to enter the world of work with broad knowledge about trends in the field. It could be offered in the hybrid modality to expand the student experience with virtual education technologies. It can be offered in-person, online, or hybrid.

CINF 6800 Clinical Experiences in Information Services

A credit. One hour of workshop per week.

The student will be assigned to a library, documentation and information center, or archive for three hours, once a week. You will work under the supervision of a professional librarian or information specialist in one or two service areas, previously agreed with the faculty supervising the clinic.

OTHER COURSE DESCRIPTIONS:

CINF 6015 The Public Library: Its Clients and Services

Three credits. Three hours of lecture a week.

Prerequisite: CINF 6000 This course will discuss the history, goals, and functions of the public library as an essential element in the information world and as an integral part of the community it serves. The various elements that make it up and how to manage them in the most effective way will be presented. These include: the types of clients in a multicultural society, the services they offer and cooperative arrangements, library systems, the public librarian, and trends and innovations in this field. It also includes practical experiences.

CINF 6017 School Library Programs Integrated into the Curriculum

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6413 and 6000.

This course will detail the goals of the service programs offered by the school library. The various planning and organizational strategies, including their integration into the school curriculum, will be discussed. It also includes practical experiences in the implementation, development and evaluation of programmes and their activities. Distance learning course y online.

CINF 6019 The Role of the Librarian in Higher Education

Three credits. Three hours of discussion a week.

This course emphasizes the role of the librarian in institutions of higher education. It will briefly describe the origins of universities and their development in various parts of the world. It will emphasize the evolution and development of public and private higher education in Puerto Rico. Special attention will be paid to the administrative responsibilities of the academic librarian in public and private post-secondary educational institutions. Face-to-face and hybrid course.

CINF 6105 Production and Use of Information in the Humanities

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6005, 6100 and 6010.

The structure of information in the different fields of the humanities, including religion, philosophy, mythology, languages, literature, music, and other performing arts and visual arts. Access to this information and important tools. Specialized information services in the humanities. Applications y users of information in the humanities.

CINF 6107 Production and Use of Information in the Social Sciences

Three credits. Three hours of discussion a week.

The course deals with developments and trends in the social sciences. An analysis of the research and professional methodologies used in the aforementioned disciplines. Challenges representing the creation and use of information resources in the social

sciences. An analysis of these resources. Fundamental aspects of the development, management, organization and dissemination of the aforementioned resources. The challenges of libraries, information centres and information services for the social sciences.

CINF 6109 Production and Use of Information on the Economy and Trade

Three credits. Three hours of discussion a week.

Study of sources of information related to the business world. General sources for economic and demographic statistics are discussed. In addition, specific sources for various industries, such as construction, financial institutions, and tourism, are studied. The sources are discussed within the context of each sector and their relative importance for the economy, professional organizations, research centers, and major publishers, among other aspects, are analyzed. Printed and electronic fonts are included.

CINF 6110 Production and Use of Legal Information

Three credits. Three hours of discussion a week.

Study of the main sources of information on the legal sciences of the United States, Puerto Rico and Spain. The origin and context in which they are developed are studied through the analysis of legislative, executive and judicial processes. The research process, the main publishers and providers of legal information, print and electronic in the field, the various types of libraries and the role of the legal information specialist are also the subject of study.

CINF 6115 Production and Use of Information on Latin America and the Caribbean

Three credits. Three hours of discussion a week.

The course deals with developments and trends in the area of information in Latin America and the Caribbean. Evaluation and weighting of research methodologies and research in the field. Challenges in the creation and use of information resources on Latin America and the Caribbean. Evaluation, analysis and weighting of these resources. Fundamental aspects of the development, management, organization and dissemination of the aforementioned resources. The challenges of libraries, information centres, archives and information services for studies on Latin America and the Caribbean.

CINF 6117 Production and Use of Legal Information (Advanced)

Three credits. Three hours of discussion a week.

Prerequisite: CINF 6110 Study of the main sources of information in particular areas with entitlement. Such as labor law, tax law, environmental law, securities, and financial institutions, with emphasis on sources produced in Puerto Rico and the United States. Study of the origin of the main sources of legislation and regulations and their characteristics, differences and similarities.

CINF 6118 Production and Use of Information in Science and Technology

Three credits. Three hours of discussion a week.

Study of the development, current trends and methodology of science and technology; the research process and problems; information resources in their various formats and

supports; the information habits and needs of experimental scientists and technologists; and education of information professionals specializing in science and technology.

CINF 6119 Production and Use of Government Information

Three credits. Three hours of discussion a week.

It introduces the special nature and scope of multi-type government information resources as basic information and reference material for different clients. It points to the availability of access to such information in the electronic age. It presents government infrastructures and corresponding units, at the federal, state, local, regional and international levels, in order to know the documentation that is generated. It considers how to evaluate, select, acquire, organize and develop such collections, and develop value-added products, in order to meet the needs of the clientele.

CINF 6127 Production and Use of Information from International Organizations

Three credits. Three hours of discussion a week.

Study of the sources of legal information generated by non-governmental organizations and their affiliated agencies. Their origin and the context in which they develop are studied through the analysis of the structure and functions of organizations. The process of selection and acquisition of resources is also studied. It includes organizations such as the United Nations, the Association of Caribbean States, and CARICOM.

CINF 6215 Introduction to Computerized Database Design

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of conceptualizing computerized databases. Each student will apply this knowledge by designing and programming a database and its corresponding documentation. Students will learn this skill in the context of their work as information specialists and with a view to enabling them to design or evaluate databases for libraries and other information centres.

CINF 6216 Technical Services in Law Libraries

Three credits. Three hours of discussion a week.

Study of the various phases of technical services-development and management of collections, organization of information resources in the context of legal libraries. The particularities of printed and electronic legal collections, the most important publishing houses, and the influence of information technology on development are discussed.
y collection management.

CINF 6217 Advanced Computerized Database Design

Three credits. Three hours of discussion a week.

In this course, students will have the opportunity to deepen the conceptualization of and computerized database programming. Each student will develop an advanced project, designing and programming a related database and its corresponding documentation. Students will learn these skills in the context of their work as information specialists and with

a view to training them to design or evaluate databases for libraries and other information centres.

CINF 6300 Information Technology I

Two credits. Two hours of discussion a week.

Introduction to information technologies, the value of information in different eras, the basic elements of this science, its development and its projections.

CINF 6410 Development of an Information Services Consulting Practice

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of consulting practice in information systems and services and will have the opportunity to apply these principles in the development of a project for a particular client.

CINF 6415 Strategic Planning (Workshop)

A credit. One hour of discussion a week.

Prerequisite: CINF 6000 This workshop will familiarize the student with the procedures and techniques of strategic planning.

CINF 6416 The School Library

Three credits. Three hours of discussion a week.

This course will discuss the objectives and functions of the school library as an essential element in the world of information and an integral part of education. The various elements that make it up and how to manage them in the most effective way will be presented. It will include hands-on experiences. Distance learning course.

CINF 6426 Library Administration

Three credits. Three hours of discussion a week.

It introduces the student to various administrative environments of academic and public libraries and information centers; and it offers the opportunity to acquire knowledge and skills to select appropriate and effective strategies for planning, organization, development and continuous evaluation for the different typologies, in the face of the challenges of the 21st century. It aims at the development of proactive attitudes for change management, with frameworks and direction for problem solving and responsible decision-making. It highlights the importance of integration, of group work, for the staff working in the information entity. Face-to-face, hybrid and online course.

CINF 6427 Information Management as a Strategic Resource

Three credits. Three hours of discussion a week.

This course will emphasize the strategic value of information to organizations. It will describe the processes aimed at identifying, categorizing, and evaluating information resources in an organization. It will examine the use of these resources by the various components of the organization and the results that are generated from that use. The use of information resources will be evaluated with a view to developing effective strategies to improve the management of these resources.

CINF 6429 The Special Library

Three credits. Three hours of discussion a week.

Study of special libraries and information centres and their various manifestations. Discussion of historical and contemporary developments, including the most important elements of special libraries, such as management, budgeting, types of clientele, development of collections, both print and electronic, customer services, professional ethics, and the role of the information specialist

CINF 6705 Information, Knowledge and Society

Three credits. Three hours of discussion a week.

Study of the evolution in the processes of creation, recording, processing and transmission of information and knowledge from the emergence of the first civilizations to the present day, aimed at students of Library and Information Sciences, in order to have a general and logical understanding of the characteristics and importance of information and knowledge flows. with special emphasis on contemporary society. Epistemological issues and disciplinary development, the functions of libraries and other information units, as well as the role of the information professional in society are discussed. It is offered in face-to-face, hybrid, and online modalities.

CINF 6706 Research Methods in Information Sciences

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6808 Offers the opportunity to learn about the theoretical foundations of scientific research and its application in librarianship, information sciences, and knowledge management. Students are expected to develop knowledge, skills, and appreciation for research to get started in this activity and contribute to the development of the field from an interdisciplinary perspective. Opportunities will be provided to explore various quantitative and qualitative research techniques. Students will develop the theoretical and methodological bases to apply what they have learned as they advance their study program. Finally, the need and value of research in Library and Information Sciences will be analyzed, as well as its benefits in the search for solutions to specific problems in society. It includes the study of new research trends, such as evidence-based practice. It can be offered in-person, hybrid, and online.

CINF 6708 Fundamentals of Information and Knowledge Organization

Three credits. Three hours of lecture a week.

Correquisite: CINF 6705 This course aims to prepare students of the Information Science program to understand the principles, norms, and tools used for the organization of information in various media and in diverse organizational environments. These manifestations are illustrated by the study of catalogues, indexes, bibliographic networks, inventories of documents and archives, and other organizational entities. It includes the analysis of cataloguing and indexing structures, thematic representations with controlled vocabularies, bibliographic description, metadata, authority control, taxonomies, and

classification systems. Relevant applicable standards are examined and discussed to alert students to trends in the field. It can be offered in-person, hybrid, and online.

CINF 6805 Clinical Experiences in the School Library

A credit. One hour of workshop per week.

The main purpose of this course is to provide students with hands-on experience in offering school library services integrated into the curriculum. Students will develop activities of the Reading Orientation Program and the Program for the Development of Information and Critical Thinking Skills within the aforementioned context. Other library services will also be offered by students. Distance learning and online course.

CINF 6806 Organization and Retrieval of Information and Knowledge (Basic)

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6705, 6706, 6707, 6708 Discussion and analysis of the principles of information organization in theory and practice, as an important factor for its access and effective use. Through lectures, discussions, and internships, students aspiring to the Master of Information Science degree will be exposed to an in-depth examination of industry standards for intaglio and documentary description, the selection of access points, including subject descriptors and headings; and classification systems. It studies the storage of integrated information in computerized databases. Assesses the importance of knowing the community to be served in order to organize information, facilitate its rapid access and use; and meet their information needs. Reflection on the importance of the information specialist in the organization of information and the need to develop the information and the need to develop information in the workplace. Distance learning and online course.

CINF 6807 Reference Products and Services

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Introduction to the use of reference sources and the organization and provision of reference services in libraries and other information units. Aimed at students of Information Sciences, with the purpose of making them capable of working as referents or making decisions for the organization of the reference service in different contexts. Reference policies, the formation of a reference collection, as well as the types, uses, and evaluation criteria of sources are discussed. The use of technologies in the virtual reference service and the ethical aspects for good professional performance are addressed. Face-to-face, hybrid and online course.

CINF 6905 Fundamentals and Applications of Knowledge Management

Three credits: three hours of lecture per week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Introduction to the discipline and professional field of knowledge management. The most important theoretical concepts and models are studied, and the most common strategies for managing knowledge in

organizations and companies are addressed, in order to develop a deeper understanding of this new discipline. The course provides students of the Master of Information Sciences with an emphasis on knowledge management with a holistic approach to the principles and practices that affect this field.

CINF 6906 Strategies, Innovations and Techniques for Knowledge Management

Three credits. Three hours of lecture a week.

This course, aimed at students of Information Sciences, examines practical strategies and techniques for enhancing intellectual capital in organizations and businesses. The procedures and technologies required to implement the techniques are discussed, and examples in various contexts are studied. Students will carry out exercises to design and implement the most commonly used techniques and strategies in the discipline in order to provide them with the basic skills that allow them to perform in the labor field. Face-to-face, hybrid and online course.

CINF 6907 Knowledge Generation, Communication and Organizational Learning

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 This course addresses the processes of knowledge generation in organizations, from its discovery and capture, to its communication and exchange in its tacit and explicit form. Emphasis on communication and leadership strategies that foster organizational learning and the development of a culture of collaboration supported by technology. Face-to-face and hybrid course.

CINF 6908 Innovation Management: Idea-to-Implementation/Commercialization Cycle

Three credits. Three hours of lecture a week.

This course, aimed at students of Information Sciences, analyzes dimensions and processes of creation and protection of knowledge and intellectual property in organizational innovation initiatives. Strategies and techniques are identified to stimulate innovation and best practices in order to increase the competitiveness of the organization or company.

CINF 6808 User and Information Needs Studies

Three credits. Three hours of discussion a week.

Corequisites: CINF 6705, CINF 6706 Introduction to concepts, methods, and techniques related to user studies

and the diagnosis of information needs. The study of information behavior and use of information is considered in an important way. The evolution of user studies and some of the models used for the study of information behavior are analyzed. The needs and habits of using information of different user communities are exposed in the context of different information units. The importance of these studies for a library practice focused on the needs of users and the research activity that generates the necessary evidence for such practice is emphasized. Distance learning course.

CINF 6809 Selection and Acquisition of Knowledge Information Resources.

Three credits. Three lecture hours per week Prerequisites: CINF 6706, 6707, 6708, CINF 6806, 6807 This course introduces students in the Information Science program, to topics about the process of collection development, including the preparation of collection development policy, selection, censorship, and intellectual freedom, the evaluation and discarding of collections, the sharing of information resources, the negotiation of licenses for use, the maintenance, preservation and conservation of collections. The course examines the book market and the information industry; Organizations

y related partnerships; awards and sources of information in this area. Exposes students to the processes of purchase, exchange, donations and legal deposit; and examines the role of vendors and suppliers of information resources. It presents procurement automation as a working model. This course can be offered in both face-to-face and distance learning modalities.

CINF 6810 Organization and Retrieval of Information and Knowledge (Advanced)

Three credits. Three hours of lecture a week.

Prerequisite: CINF 6806, CINF 6705, CINF 6706, CINF 6707, CINF 6808 In-depth and extensive discussion and analysis of the description of and access to electronic and other multitype resources. It includes bibliographic control of electronic serials, e-books, video recordings, among others, and their description using professional standards such as RAAC2 and RDA. The control of authorities in the subjects and the classification of the Library of Congress (LCC) is discussed at length. In addition, metadata schemas such as Dublin Core and Metadata Object Description (MODS) are explored. Practice will be provided in the use of the different tools so that students can perform effectively in the new work environments. Face-to-face, hybrid and online course.

CINF 6815 Information and Technological Competencies

Three credits. Three hours of lecture a week.

Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708 This course discusses the process and strategies for the development of informational and technological competencies Aimed at students of Library and Information Sciences, so that they are able to design a program of information skills and critical thinking. It also includes how to evaluate whether the aforementioned skills were achieved and, as well as, practical experiences in the different models. It can be offered in person or remotely.

CINF 6816 Information Services Administration

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Lecture and discussion on the basic concepts of library and documentation and information center administration, aimed at students of information-related professions, so that they can make informed decisions in their future areas of work. It includes terminology, planning process, organization, development, innovation, and continuous evaluation. Concepts of

management, leadership, human resources, physical facilities, technological applications, finance, and services are discussed.

CINF 6995 Special Topics in Information Science and Technology

One to three credits.

Prerequisite: Basic courses Advanced seminar dealing with various topics of current interest in the field of information. Its duration varies according to the number of credits. Can be repeated with credits.

CINF 6996 Independent Study

One to three credits.

Prerequisite: Core Courses Intensive one-on-one study of a topic or problem in the field of information under the supervision of a faculty member. As a final result, you will submit a written paper that meets the requirements of a research paper.

CINF 6997 Workshop on Information Science and Technology

One to three credits.

Prerequisite: Core courses.

Intensive study on an aspect of library and information science under the direction of an expert in that field. The duration varies according to the number of credits. Can be repeated with credit.

CINF 6998 Research Seminar: Application of Knowledge (Capstone)

Three credits. Three hours of seminar per week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708.

The Capstone is aimed at students in the Master's program. It is an exercise in the application of knowledge in which students are integrated into the lines of research established by the professors. The process can be done in one or several stages: academic research projects could include, but are not limited to, literature review, instrument design, fieldwork, analysis or evaluation of results. Projects to create solutions to information and knowledge problems could include, but are not limited to, results analysis or innovation, documentation of best practices, and case studies. The course is aimed at producing a presentation or publication in which the results of the research or creation project are reported. Distance learning course.



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DEGREE:

Post Master's Certificate in Public and Special Academic Library Administrator

The Post Master's Certificate in Public and Special Academic Library Administration allows you to take courses with the flexibility and comfort of distance learning to become certified in this specialty. Their courses are occasionally complemented by some face-to-face sessions or through videoconference. The use of chat rooms or discussion forums and emails provide students with constant interaction with their professors and fellow students to participate in their learning process.

ACCREDITATIONS: American Library Association (Committee on Accreditation)

TEACHERS:

Claudia D. De Souza, Ph.D., Universidad Carlos Tercero in Madrid, 2018. Assistant Professor. Open Science in the Caribbean.

Noraida Dominguez Flores, Ph.D., Nova South Eastern University, 2010. Associate Professor. Integration of technology in teaching; Teaching information competencies and technological skills; Knowledge Management; Qualitative research; Communities of Practice

Eliut Flores Caraballo, Ph.D., University of Texas, 1991. Professor. Integration of information technology into education; Distributed learning; Knowledge Management; Information Services Consulting

José A. Sánchez Lugo, Ed.D., Pennsylvania State University, 1998, Professor. Effective integration of technology into education and information services; Creation of online learning communities; Qualitative research; Evaluation of processes and products; Creation of information products

Carlos Suárez Balseiro, Ph.D., Universidad Carlos III, Madrid, 2004, Professor. Information management as a strategic resource; Basic principles of knowledge management; Evaluative bibliometrics; Quantitative methods applied to the management of information units

Betsaida Vélez Natal, D.L.S ., Columbia University, 1999. Associate Professor. Information needs of bank managers; Legal information; Archival and Records Management; Production and use of information; Qualitative research.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Program-Specific Requirements

1. Possess a Master's Degree in Library and Information Science (MLS) or a Master's Degree in Information Science and Technology (MIS)
2. Academic index of 3.00 points.

GRADUATION REQUIREMENTS:

Complete 16 credits with an average of 3.00 points.

PROGRAM OF STUDY:

Program Requirements	Credits
CINF 6019 The Role of the Librarian in Higher Education	3
CINF 6415 Strategic Planning (Workshop)	1
CINF 6426 Library Administration	3
Course on Higher Education to be taken at the Faculty of Education	3
Elective	6
Total Credits	16

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

CINF 6019 The Role of the Librarian in Higher Education

Three credits. Three hours of discussion a week.

This course emphasizes the role of the librarian in institutions of higher education. It will briefly describe the origins of universities and their development in various parts of the world. It will emphasize the evolution and development of public and private higher education in Puerto Rico. Special attention will be paid to the administrative responsibilities of the academic librarian in public and private post-secondary educational institutions. Face-to-face and hybrid course.

CINF 6415 Strategic Planning (Workshop)

A credit. One hour of discussion a week.

Prerequisite: CINF 6000 This workshop will familiarize the student with the procedures and techniques of strategic planning.

CINF 6426 Library Administration

Three credits. Three hours of discussion a week.

It introduces the student to various administrative environments of academic and public libraries and information centers; and it offers the opportunity to acquire knowledge and skills to select appropriate and effective strategies for planning, organization, development and continuous evaluation for the different typologies, in the face of the challenges of the 21st century. It aims at the development of proactive attitudes for change management, with frameworks and direction for problem solving and responsible decision-making. It highlights the importance of integration, of group work, for the staff working in the information entity. Face-to-face, hybrid and online course.

OTHER COURSE DESCRIPTIONS:

CINF 6015 The Public Library: Its Clients and Services

Three credits. Three hours of lecture a week.

Prerequisite: CINF 6000 This course will discuss the history, goals, and functions of the public library as an essential element in the information world and as an integral part of the community it serves. The various elements that make it up and how to manage them in the most effective way will be presented. These include: the types of clients in a multicultural society, the services they offer and cooperative arrangements, library systems, the public librarian, and trends and innovations in this field. It also includes practical experiences.

CINF 6017 School Library Programs Integrated into the Curriculum

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6413 and 6000.

This course will detail the goals of the service programs offered by the school library. The various planning and organizational strategies, including their integration into the school curriculum, will be discussed. It also includes practical experiences in the implementation, development and evaluation of programmes and their activities. Distance learning course y online.

CINF 6105 Production and Use of Information in the Humanities

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6005, 6100 and 6010.

The structure of information in the different fields of the humanities, including religion, philosophy, mythology, languages, literature, music, and other performing arts and visual arts. Access to this information and important tools. Specialized information services in the humanities. Applications y users of information in the humanities.

CINF 6107 Production and Use of Information in the Social Sciences

Three credits. Three hours of discussion a week.

The course deals with developments and trends in the social sciences. An analysis of the research and professional methodologies used in the aforementioned disciplines. Challenges representing the creation and use of information resources in the social sciences. An analysis of these resources. Fundamental aspects of the development, management, organization and dissemination of the aforementioned resources. The challenges of libraries, information centres and information services for the social sciences.

CINF 6109 Production and Use of Information on the Economy and Trade

Three credits. Three hours of discussion a week.

Study of sources of information related to the business world. General sources for economic and demographic statistics are discussed. In addition, specific sources for various industries, such as construction, financial institutions, and tourism, are studied. The sources are discussed within the context of each sector and their relative importance for the economy, professional organizations, research centers, and major publishers, among other aspects, are analyzed. Printed and electronic fonts are included.

CINF 6110 Production and Use of Legal Information

Three credits. Three hours of discussion a week.

Study of the main sources of information on the legal sciences of the United States, Puerto Rico and Spain. The origin and context in which they are developed are studied through the analysis of legislative, executive and judicial processes. The research process, the main publishers and providers of legal information, print and electronic in the field, the various types of libraries and the role of the legal information specialist are also the subject of study.

CINF 6115 Production and Use of Information on Latin America and the Caribbean

Three credits. Three hours of discussion a week.

The course deals with developments and trends in the area of information in Latin America and the Caribbean. Evaluation and weighting of research methodologies and research in the field. Challenges in the creation and use of information resources on Latin America and the Caribbean. Evaluation, analysis and weighting of these resources. Fundamental aspects of the development, management, organization and dissemination of the aforementioned resources. The challenges of libraries, information centres, archives and information services for studies on Latin America and the Caribbean.

CINF 6117 Production and Use of Legal Information (Advanced)

Three credits. Three hours of discussion a week.

Prerequisite: CINF 6110 Study of the main sources of information in particular areas with entitlement. Such as labor law, tax law, environmental law, securities, and financial institutions, with emphasis on sources produced in Puerto Rico and the United States. Study of the origin of the main sources of legislation and regulations and their characteristics, differences and similarities.

CINF 6118 Production and Use of Information in Science and Technology

Three credits. Three hours of discussion a week.

Study of the development, current trends and methodology of science and technology; the research process and problems; information resources in their various formats and supports; the information habits and needs of experimental scientists and technologists; and education of information professionals specializing in science and technology.

CINF 6119 Production and Use of Government Information

Three credits. Three hours of discussion a week.

It introduces the special nature and scope of multi-type government information resources as basic information and reference material for different clients. It points to the availability of access to such information in the electronic age. It presents government infrastructures and corresponding units, at the federal, state, local, regional and international levels, in order to know the documentation that is generated. It considers how to evaluate, select, acquire, organize and develop such collections, and develop value-added products, in order to meet the needs of the clientele.

CINF 6127 Production and Use of Information from International Organizations

Three credits. Three hours of discussion a week.

Study of the sources of legal information generated by non-governmental organizations and their affiliated agencies. Their origin and the context in which they develop are studied through the analysis of the structure and functions of organizations. The process of selection and acquisition of resources is also studied. It includes organizations such as the United Nations, the Association of Caribbean States, and CARICOM.

CINF 6208 Computerized Systems for Integrated Document Management

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of the technologies available to manage documents in an integrated way using computerized technologies. The complexity of many organizations' operational models requires the implementation of technologies that simplify and automate transaction processing and information flow. Information specialists must know the technologies needed to organize and retrieve digital information, manage the flow of information in document management systems, and manage an organization's electronic documents. Face-to-face, hybrid and online course.

CINF 6209 Organization and Management of Documents and Access to Information

Three credits. Three hours of discussion a week.

Prerequisites: Have completed the information skills modules offered by EGCTI.

Corerequisite: CINF 6705 This course examines concepts and practices related to the organization and management of records in archives, libraries and documentation centers and other organizations. It includes the study of access systems and methods of description and dissemination of information. Among the topics to be discussed are: organization and description of collections, documentary funds and other materials, preparation of descriptive guides and inventories and systems for the management of funds and collections. The use of different information industry standards for the effective description and organization of documents will be highlighted. The student will have the opportunity to put into practice the methodologies presented through practical class work, assignments and a final project. The challenges presented by the different information technologies for the management of document preservation will also be discussed. Hybrid course.

CINF 6215 Introduction to Computerized Database Design

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of conceptualizing computerized databases. Each student will apply this knowledge by designing and programming a database and its corresponding documentation. Students will learn this skill in the context of their work as information specialists and with a view to enabling them to design or evaluate databases for libraries and other information centres.

CINF 6216 Technical Services in Law Libraries

Three credits. Three hours of discussion a week.

Study of the various phases of technical services-development and management of collections, organization of information resources in the context of legal libraries. The particularities of printed and electronic legal collections, the most important publishing houses, and the influence of information technology on development are discussed. y collection management.

CINF 6217 Advanced Computerized Database Design

Three credits. Three hours of discussion a week.

In this course, students will have the opportunity to deepen the conceptualization of and computerized database programming. Each student will develop an advanced project, designing and programming a related database and its corresponding documentation. Students will learn these skills in the context of their work as information specialists and with a view to training them to design or evaluate databases for libraries and other information centres.

CINF 6300 Information Technology I

Two credits. Two hours of discussion a week.

Introduction to information technologies, the value of information in different eras, the basic elements of this science, its development and its projections.

CINF 6410 Development of an Information Services Consulting Practice

Three credits. Three hours of discussion a week.

In this course, students will learn the fundamentals of consulting practice in information systems and services and will have the opportunity to apply these principles in the development of a project for a particular client.

CINF 6416 The School Library

Three credits. Three hours of discussion a week.

This course will discuss the objectives and functions of the school library as an essential element in the world of information and an integral part of education. The various elements that make it up and how to manage them in the most effective way will be presented. It will include hands-on experiences. Distance learning course.

CINF 6417 Document Manager

Three credits. Three hours of discussion a week.

This course introduces the effective administrative management of a document manager, in theory and practice with special emphasis on the reality of Puerto Rico, the United States and Latin America. The organizational structure of the organizational unit, the importance of systematic planning, management, and evaluation. It includes the study of the phases of the document life cycle and its reporting, creation, evaluation and retention. In addition, the description, organization, storage, prevention and management of disasters, dissemination and use, disposition or preservation of documents and the parameters that govern these decisions are considered. The planning, development and evaluation of public projects and strategies is presented and studied. Requires laboratory and an individual work project or collective. This course will be offered in hybrid mode.

CINF 6419 The Archives: Organization, Development, and Legislation

Two credits. Two hours of discussion a week.

The course will discuss the process of evaluating, selecting, and organizing public and private archives, the preparation of policies for the development, and the management of different types of public and private archive formats. The development and administration of public and private archives will be done within a historical perspective. Face-to-face, hybrid and online course.

CINF 6427 Information Management as a Strategic Resource

Three credits. Three hours of discussion a week.

This course will emphasize the strategic value of information to organizations. It will describe the processes aimed at identifying, categorizing, and evaluating information resources in an organization. It will examine the use of these resources by the various components of the organization and the results that are generated from that use. The use of information resources will be evaluated with a view to developing effective strategies to improve the management of these resources.

CINF 6429 The Special Library

Three credits. Three hours of discussion a week.

Study of special libraries and information centres and their various manifestations. Discussion of historical and contemporary development, including the most important elements of special libraries, such as management, budgeting, types of clientele, development of collections, both print and electronic, customer services, professional ethics, and the role of the information specialist.

CINF 6507 Conservation, Preservation and Restoration of Documents

Three credits. Three hours of discussion a week.

This is an introductory course to the administration of conservation and preservation services in information centers. It presents an overview of the fundamental aspects of preventive conservation, mainly in libraries and archives, and establishes evaluation parameters for decision-making regarding the intervention of documentary materials by affiliated professionals. The course addresses the complexities of preservation planning by taking into account the intrinsic needs of the most common supports and media, in light of the agents of deterioration that most affect documentary collections in the tropics. Face-to-face, hybrid and online course.

CINF 6705 Information, Knowledge and Society

Three credits. Three hours of discussion a week.

Study of the evolution in the processes of creation, recording, processing and transmission of information and knowledge from the emergence of the first civilizations to the present day, aimed at students of Library and Information Sciences, in order to have a general and logical understanding of the characteristics and importance of information and knowledge flows, with special emphasis on contemporary society. Epistemological issues and disciplinary development, the functions of libraries and other information units, as well as the role of the information professional in society are discussed. It is offered in face-to-face, hybrid, and online modalities.

CINF 6706 Research Methods in Information Sciences

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6808 Offers the opportunity to learn about the theoretical foundations of scientific research and its application in librarianship, information sciences, and knowledge management. Students are expected to develop knowledge, skills, and appreciation for research to get started in this activity and contribute to the development of

the field from an interdisciplinary perspective. Opportunities will be provided to explore various quantitative and qualitative research techniques. Students will develop the theoretical and methodological bases to apply what they have learned as they advance their study program. Finally, the need and value of research in Library and Information Sciences will be analyzed, as well as its benefits in the search for solutions to specific problems in society. It includes the study of new research trends, such as evidence-based practice. It can be offered in-person, hybrid, and online.

CINF 6707 Information and Knowledge Technologies

Three credits. Three hours of lecture a week.

Corerequisite: CINF 6705 This course aimed at students of Information Sciences introduces information and communication technologies for information and knowledge management. The processes of technological convergence and the nature of the digital technology industry are addressed. It includes the study of computer technologies, networks, databases, the Internet, Web 2.0+ and other emerging technologies. Students will have the opportunity to become familiar with various technological and programmed applications and platforms used in information and knowledge units to enable them to enter the world of work with broad knowledge about trends in the field. It could be offered in the hybrid modality to expand the student experience with virtual education technologies. It can be offered in-person, online, or hybrid.

CINF 6708 Fundamentals of Information and Knowledge Organization

Three credits. Three hours of lecture a week.

Corerequisite: CINF 6705 This course aims to prepare students of the Information Science program to understand the principles, norms, and tools used for the organization of information in various media and in diverse organizational environments. These manifestations are illustrated by the study of catalogues, indexes, bibliographic networks, inventories of documents and archives, and other organizational entities. It includes the analysis of cataloguing and indexing structures, thematic representations with controlled vocabularies, bibliographic description, metadata, authority control, taxonomies, and classification systems. Relevant applicable standards are examined and discussed to alert students to trends in the field. It can be offered in-person, hybrid, and online.

CINF 6800 Clinical Experiences in Information Services

A credit. One hour of workshop per week.

The student will be assigned to a library, documentation and information center, or archive for three hours, once a week. You will work under the supervision of a professional librarian or information specialist in one or two service areas, previously agreed with the faculty supervising the clinic.

CINF 6805 Clinical Experiences in the School Library

A credit. One hour of workshop per week.

The main purpose of this course is to provide students with hands-on experience in offering school library services integrated into the curriculum. Students will develop activities of the Reading Orientation Program and the Program for the Development of Information and Critical Thinking Skills within the aforementioned context. Other library services will also be offered by students. Distance learning and online course.

CINF 6806 Organization and Retrieval of Information and Knowledge (Basic)

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6705, 6706, 6707, 6708 Discussion and analysis of the principles of information organization in theory and practice, as an important factor for its access and effective use. Through lectures, discussions, and internships, students aspiring to the Master of Information Science degree will be exposed to an in-depth examination of industry standards for intaglio and documentary description, the selection of access points, including subject descriptors and headings; and classification systems. It studies the storage of integrated information in computerized databases. Assesses the importance of knowing the community to be served in order to organize information, facilitate its rapid access and use; and meet their information needs. Reflection on the importance of the information specialist in the organization of information and the need to develop the information and the need to develop information in the workplace. Distance learning and online course.

CINF 6807 Reference Products and Services

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Introduction to the use of reference sources and the organization and provision of reference services in libraries and other information units. Aimed at students of Information Sciences, with the purpose of making them capable of working as referents or making decisions for the organization of the reference service in different contexts. Reference policies, the formation of a reference collection, as well as the types, uses, and evaluation criteria of sources are discussed. The use of technologies in the virtual reference service and the ethical aspects for good professional performance are addressed. Face-to-face, hybrid and online course.

CINF 6808 User and Information Needs Studies

Three credits. Three hours of discussion a week.

Corequisites: CINF 6705, CINF 6706 Introduction to concepts, methods, and techniques related to user studies

and the diagnosis of information needs. The study of information behavior and use of information is considered in an important way. The evolution of user studies and some of the models used for the study of information behavior are analyzed. The needs and habits of using information of different user communities are exposed in the context of different

information units. The importance of these studies for a library practice focused on the needs of users and the research activity that generates the necessary evidence for such practice is emphasized. Distance learning course.

CINF 6809 Selection and Acquisition of Knowledge Information Resources.

Three credits. Three lecture hours per week Prerequisites: CINF 6706, 6707, 6708, CINF 6806, 6807 This course introduces students in the Information Science program, to topics about the process of collection development, including the preparation of collection development policy, selection, censorship, and intellectual freedom, the evaluation and discarding of collections, the sharing of information resources, the negotiation of licenses for use, the maintenance, preservation and conservation of collections. The course examines the book market and the information industry; Organizations

y related partnerships; awards and sources of information in this area. Exposes students to the processes of purchase, exchange, donations and legal deposit; and examines the role of vendors and suppliers of information resources. It presents procurement automation as a working model. This course can be offered in both face-to-face and distance learning modalities.

CINF 6810 Organization and Retrieval of Information and Knowledge (Advanced)

Three credits. Three hours of lecture a week.

Prerequisite: CINF 6806, CINF 6705, CINF 6706, CINF 6707, CINF 6808 In-depth and extensive discussion and analysis of the description of and access to electronic and other multitype resources. It includes bibliographic control of electronic serials, e-books, video recordings, among others, and their description using professional standards such as RAAC2 and RDA. The control of authorities in the subjects and the classification of the Library of Congress (LCC) is discussed at length. In addition, metadata schemas such as Dublin Core and Metadata Object Description (MODS) are explored. Practice will be provided in the use of the different tools so that students can perform effectively in the new work environments. Face-to-face, hybrid and online course.

CINF 6815 Information and Technological Competencies

Three credits. Three hours of lecture a week.

Prerequisites: CINF6705, CINF6706, CINF6707, CINF6708 This course discusses the process and strategies for the development of informational and technological competencies Aimed at students of Library and Information Sciences, so that they are able to design a program of information skills and critical thinking. It also includes how to evaluate whether the aforementioned skills were achieved and, as well as, practical experiences in the different models. It can be offered in person or remotely.

CINF 6816 Information Services Administration

Three credits. Three hours of discussion a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Lecture and discussion on the basic concepts of library and documentation and information center administration, aimed at students of information-related professions, so that they can make informed decisions in their future areas of work. It includes terminology, planning process, organization, development, innovation, and continuous evaluation. Concepts of management, leadership, human resources, physical facilities, technological applications, finance, and services are discussed.

CINF 6905 Fundamentals and Applications of Knowledge Management

Three credits: three hours of lecture per week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 Introduction to the discipline and professional field of knowledge management. The most important theoretical concepts and models are studied, and the most common strategies for managing knowledge in organizations and companies are addressed, in order to develop a deeper understanding of this new discipline. The course provides students of the Master of Information Sciences with an emphasis on knowledge management with a holistic approach to the principles and practices that affect this field.

CINF 6906 Strategies, Innovations and Techniques for Knowledge Management

Three credits. Three hours of lecture a week.

This course, aimed at students of Information Sciences, examines practical strategies and techniques for enhancing intellectual capital in organizations and businesses. The procedures and technologies required to implement the techniques are discussed, and examples in various contexts are studied. Students will carry out exercises to design and implement the most commonly used techniques and strategies in the discipline in order to provide them with the basic skills that allow them to perform in the labor field. Face-to-face, hybrid, and online course

CINF 6907 Knowledge Generation, Communication and Organizational Learning

Three credits. Three hours of lecture a week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708 This course addresses the processes of knowledge generation in organizations, from its discovery and capture, to its communication and exchange in its tacit and explicit form. Emphasis on communication and leadership strategies that foster organizational learning and the development of a culture of collaboration supported by technology. Face-to-face and hybrid course.

CINF 6908 Innovation Management: Idea-to-Implementation/Commercialization Cycle

Three credits. Three hours of lecture a week.

This course, aimed at students of Information Sciences, analyzes dimensions and processes of creation and protection of knowledge and intellectual property in organizational innovation initiatives. Strategies and techniques are identified to stimulate innovation and

best practices in order to increase the competitiveness of the organization or company.

CINF 6995 Special Topics in Information Science and Technology

One to three credits.

Prerequisite: Basic courses Advanced seminar dealing with various topics of current interest in the field of information. Its duration varies according to the number of credits. Can be repeated with credits

CINF 6996 Independent Study

One to three credits.

Prerequisite: Core Courses Intensive one-on-one study of a topic or problem in the field of information under the supervision of a faculty member. As a final result, you will submit a written paper that meets the requirements of a research paper.

CINF 6997 Workshop on Information Science and Technology

One to three credits.

Prerequisite: Core courses.

Intensive study on an aspect of library and information science under the direction of an expert in that field. The duration varies according to the number of credits. Can be repeated with credit.

CINF 6998 Research Seminar: Application of Knowledge (Capstone)

Three credits. Three hours of seminar per week.

Prerequisites: CINF 6705, CINF 6706, CINF 6707, CINF 6708.

The Capstone is aimed at students in the Master's program. It is an exercise in the application of knowledge in which students are integrated into the lines of research established by the professors. The process can be done in one or several stages: academic research projects could include, but are not limited to, literature review, instrument design, fieldwork, analysis or evaluation of results. Projects to create solutions to information and knowledge problems could include, but are not limited to, results analysis or innovation, documentation of best practices, and case studies. The course is aimed at producing a presentation or publication in which the results of the research or creation project are reported. Distance learning course.

Faculty of Education





Interim Dean: Dr. Grace Marie Carro Nieves
Director of the Department: Dr. José Soto Sonera
Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi
Exercise Science Area Coordinator: Dr. Lucía del R. Martínez **Phone and extensions:** (787) 764-0000, ext. 89205, 89196, 89203, 89253

DEGREE:

Master of Science in Exercise Science with a specialty in Exercise Physiology

TEACHERS:

Marta Amaral Figueroa, PhD, Louisiana State University, 1998, Professor.
Effect of Physical Activity/Exercise on Different Special Populations; Effect of Psychological and Physiological Stress on the Cardiovascular System, Diabetes, Chronic Kidney Disease and Breast Cancer

Lucía R. Martínez Colón, PhD, Florida State University, 1991, Professor.
Cardiorespiratory and metabolic characteristics and responses to exercise in children at different stages of maturation; Health Characteristics and Physiological Assessment of Physical Fitness in Diverse Populations,

Farah A. Ramírez Marrero, PhD, Ohio State University, 1997, Professor. Post-doctorate at University of Puerto Rico, Medical Sciences Campus, 2006 Post-doctorate at Mayo Clinic, Rochester, Minnesota, 2010 Physical activity and health characteristics in HIV, diabetes, cancer, and obesity; Physical activity and health characteristics in children and adolescents.

José C. Vicente Cernuda, Ph.D ., Florida State University, 1971, Professor. Post-doctorate in Cardiology Services, University of Wisconsin, La Crosse, 1982 Body composition: anthropometric density prediction. Cardiovascular evaluation.

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ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Bachelor's degree or its equivalent from an accredited university
2. Minimum academic index of 3.00 points on a scale of 4.00

3. Twelve (12) credits in specialization courses in the area of Exercise Science including: Anatomy and Kinesiology and Exercise Physiology

Documents and other requirements for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format
2. Two (2) official copies of Baccalaureate credit transcripts
3. Three (3) letters of recommendation for Graduate Studies in electronic format
o on paper
4. Essay on Experiences and Academic Background and Their Relationship to Career Goals (500-1500 words)
5. Interview with Faculty of the Area

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass the courses of the specialty with a grade of no less than "B" and obtain a grade of no less than "C" in the other courses.
3. Have an academic index of no less than 3.00 in the courses that are considered for graduation.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	6
EDUC 6390 Applied Statistics in Education	3
CIEJ 6007 Research Methods in Exercise Science	3
Specialty Courses	16
CIJE 6015 Exercise Physiology at the Intermediate Level	3
CIEJ 6016 Laboratory Techniques in Exercise Physiology	2
CIEJ 6035 Physiological Assessment of Physical Fitness	3
CIEJ 6045 Prescription and Exercise Scheduling	3
EDUC 6627 Stress Testing: Methods and Procedures	3
CIEJ 6205 Seminar on Administrative Aspects in Exercise Sciences	1
CIEJ 6206 Seminar on Psychological Aspects of Physical Activity and Exercise	1
Other Required Courses:	6
CIEJ 6069 Practicum in Exercise Science	3
CIEJ 6207 Seminar on Research and Creation in the Sciences	3

Program Requirements	Credits
CIEJ 6208 Continuation of the Seminar on Research and Creation in Exercise Sciences	0
EDUC 6511 Master's Thesis or Project	6
EDUC 6512 Continuation of Thesis or Master's Project	0
Elective Courses	6
Total Credits	34

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6390 Applied Statistics in Education I

Three credits. Three hours of lecture a week.

Application of various statistical analyses in education, with emphasis on their assumptions, their justification, the processing of data on the computer and the interpretation of the results. Includes frequency distributions with its measures of central tendency and variability, probability distributions, correlation (parametric and non-parametric), regression, and hypothesis testing (z, t, Chi-squared, and one-way ANOVA). Computer use is required. Face-to-face, hybrid and online course.

CIEJ 6007 Research Methods in Exercise Science

Three credits.

The course introduces the research methods used for the discovery of resources, knowledge, and data related to the development of research in exercise science. Management of computerized statistical programs to streamline the procedures of the application of basic statistical methods, search for information, use of library resources, evaluation procedures and experimental research methods.

CIEJ 6015 Exercise Physiology at the Intermediate Level

Three credits. Three hours of lecture a week.

This course describes, explains, and revises at a more advanced level the effect of physical activity and exercise (acute and chronic) on the functions of the human body. Students will apply their knowledge to the evaluation of the most recent scientific research on the responses and adaptations of bioenergetic, neuromuscular, pulmonary, circulatory and endocrine function as a consequence of physical activity, exercise and sports training in humans. In addition, considerations in children, women and men are discussed. The ageing population and the effect of the environment on athletic performance.

CIEJ 6016 Laboratory Techniques in Exercise Physiology

Two credits. One hour of lecture and two hours of laboratory time per week. Co-requisite: CIEJ 6015 Study and practice in the administration and supervision of laboratory techniques to evaluate the acute and chronic effects of exercise on human body functions. Development of observation skills, taking measurements, analyzing results and developing conclusions on topics of interest in Exercise Physiology. Includes equipment calibration and writing of lab reports.

CIEJ 6035 Physiological Assessment of Physical Fitness

Three credits.

Prerequisites: CIEJ 6015, 6016 Study of field and laboratory tests designed to evaluate the components of physical fitness related to health and motor skills. It includes the evaluation, selection, administration, and interpretation of test results to determine cardiorespiratory tolerance, strength, muscle tolerance and power, flexibility, agility, balance, and body composition.

CIEJ 6045 Prescription and Scheduling of Exercises

Three credits. Three hours of lecture a week.

Prerequisites: CIEJ 6015, CIEJ 6016, and CIEJ 6035 The application of physiological principles in the prescription of physical exercise and administration of physical activity programs for people of different ages, gender, health statuses, and physical condition. Emphasis will be placed on designing safe physical activity programs using scientific principles with creative programming.

EDUC 6627 Stress Testing: Methods and Procedures

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission The fundamentals of physiology, anatomy, pathophysiology, and human psychology necessary for the effective administration of stress tests will be discussed. The following topics will be included: electrocardiography, equipment calibration, patient screening, protocol selection, recording and summarizing the data obtained from the test, basic cardiopulmonary resuscitation techniques, management of emergency situations, and exercise prescription.

CIEJ 6205 Seminar on Administrative Aspects in Exercise Sciences

A credit. Three hours of seminar per week.

Seminar with emphasis on the application of management theories and approaches in the exercise science industry. It integrates essential issues for the management of exercise science programs such as human resources, facilities and equipment management, legal and risk management aspects, program and personnel evaluation, and budget basics.

CIEJ 6206: Seminar on Psychological Aspects of Physical Activity and Exercise

A credit. Three hours of seminar per week.

It integrates concepts, theories, and methodologies related to counseling into the process of adopting and maintaining the habit of physical activity and regular exercise. Psychological aspects related to advocacy and counseling on physical activity and exercise programs for individuals, communities, and populations with special needs are discussed, in the context of exercise science.

CIEJ 6069 Practicum in Exercise Science

Three credits. One hour of seminar and 9 hours of supervised practice.

Prerequisites: CIEJ 6015- 6016, CIEJ 6035, CIEJ 6045 Course designed to offer a work-educational experience in an organization, company or agency that provides its clientele with services in the field of exercise science. The student obtains professional, administrative, supervisory and leadership experience, of a practical nature, under the supervision of the qualified staff of the center and the university.

CIEJ 6207 Seminar on Research and Creation in the Sciences

Three credits. Three hours of research a week.

Prerequisite: Pass all core and specialty courses. Receive approval from the instructor offering the course.

Application of research methods in exercise science. Development of a research or creation project. Writing a publishable article or a creative project. Depending on the nature of the research or creation project, the course will be offered in face-to-face, hybrid, distance or online mode. It constitutes a full load for the student.

CIEJ 6208 Continuation of the Seminar on Research and Creation in Exercise Sciences

No credit. Three hours of research a week.

Prerequisite: CIEJ 6207.

Continuation of the application of the methods in exercise sciences. Development of a research or creation project. Writing a research article or a creative project. Depending on the nature of the research or creative projects. The course will be offered in face-to-face, hybrid or online modalities. It constitutes a full academic load for the student.

EDUC 6511 Master's Thesis or Project

Three to six credits. Contact hours by arrangement.

Prerequisites: Have Passed the Master's Degree Exam (if applicable). Present a certificate of completion of the information competencies workshop granted by the Gerardo Selles Solá Library, and present evidence of having completed the online module of Responsible Conduct in Research of the CITI Program, according to the requirements of certification 029 (202-2013) of the Administrative Board of P.R. Preparation of thesis or master's project, emphasizing the proposal and the study of the procedures for writing the thesis or project.

EDUC 6512 Continuation of Thesis or Master's Project

No credit. Three hours of lecture a week.

Prerequisite: EDUC 6511 Continuation of the preparation of the thesis or master's project, emphasizing the conduct of the research or project and its defense.

OTHER COURSE DESCRIPTIONS:

CIEJ 6005 Seminar on Contemporary Issues in Exercise Science

Three credits.

Presentation, analysis and discussion of contemporary issues in Exercise Science. It includes discussion of recent publications, proposals, and research projects by students, professors, and guests. Flexibility in identifying topics is central to course design.

CIEJ 6010 Seminar on Physical Activity and Public Health

A credit. Face-to-face course. One hour of seminar per week.

Discussion of the importance of physical activity and prevention of sedentary lifestyles in the control and prevention of diseases of individuals and the population and their impact on public health. Analysis of different methods and instruments to assess physical activity and sedentary lifestyle. It includes hands-on experiences in collecting and interpreting information on physical activity and health in individuals and populations.

CIEJ 6011 Seminar on Interpretation and Writing in Exercise Sciences

A credit. One hour of seminar per week Discussion of the importance of oral and written communication in exercise science and its variants, depending on the audience receiving the information. Analysis of published studies and possible variations in the interpretation and application of the results. It includes hands-on experiences in writing writing, oral communication, and interpreting the information being conveyed.

CIEJ 6019 Independent Study in Exercise Science

Three credits. Three hours of independent study per week.

Prerequisites: CIEJ 6007- Research Methods in EDFI and RECR, EDUC 6399 - Statistics Applied to Education or its Equivalent, CIEJ 6015- Intermediate Exercise Physiology, CIEJ 6016 - Laboratory Techniques in Exercise Physiology.

Application of research methodology in exercise science. It includes literature review, identification of the problem or question to be investigated, formulation of the hypothesis, development of the methodology, and writing of a research proposal.

CIEJ 6020 Nutritional Aspects of Physical Activity

Three credits. Three hours of lecture a week.

Study of the role of macro and micronutrients in relation to health, physical activity, exercise and sports performance. It includes the study of ergogenic nutritional aids, the athlete's diet and the pre-competition diet, eating disorders and considerations on body composition and optimal weight.

CIEJ 6026 Introduction to the Biochemistry of Exercise

Three credits. Three hours of lecture a week.

Prerequisite: QUIM 3001 or its equivalent Introduction to the study of the biochemistry of carbohydrates, fats and proteins and their relationship to physical activity, exercise and sports training. It includes the analysis of human metabolism, muscle action, enzyme activity, and regulation of nucleotides and hormones during exercise, how these affect the ability to perform muscle work, and how they adapt to exercise and sports training.

CIEJ 6067 Human Movement Analysis

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

The study of biomechanical principles and the interaction of mechanical factors and the physical sciences in human movement. Analysis of fundamental activities in exercise sciences and their variations that include: balance, jumping, walking, running, throwing, manipulating objects, aerial maneuvers, among others. Analysis of the predisposing factors to physical injuries and those that influence sports performance. Integration of the fundamental principles of the human body and the manipulation of biomechanical variables for the prescription of training programs in healthy and disease states.

CIEJ 6105 Psychosocial Foundations of Exercise

Three credits. Three hours of lecture a week.

Study of the fundamentals of exercise psychology. Integration of theory and research with application and intervention, helping the student to understand and develop the competencies to modify behavior in and towards exercise (adoption and adherence). Review of psychosocial aspects related to physical activity, exercise and physical training.

CIEJ 6106 Application and Management of Informatics for Research in Exercise Sciences

Three credits. Three hours of lecture a week.

This course examines the theoretical and practical study of the application and management of computer science for research in exercise science. The most common uses of computers, computer science and telematics in research and in the provision of evaluative services in exercise sciences will be studied. It includes the analysis of some of the most common computerized programs for the development of research and protocols where knowledge is accessed, processed and constructed, evaluation and intervention instruments that facilitate the writing of scientific reports and articles with emphasis on the management of international communication networks, access to scientific databases, the use of electronic bibliographic resources and the ethics regarding their use.

EDUC 8995 Specialized Directed Study

One to three credits. One to three hours contact.

Prerequisite: Authorization from the Department Exploration of specialized topics or problems of particular interest to groups of graduate students under the direction of a faculty member or visiting professor. This course may be taken up to a maximum of nine credits.

Interim Dean: Dr. Grace Marie Carro Nieves **Director of the Department:** Dr. José Soto



Sonera

Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi
Curriculum and Teaching Coordinator: Dr. Omar Hernandez **Phone &**
Extensions: (787) 764-0000, ext. 89205, 89196, 89252, 89253
Portal: <http://ege.uprrp.edu/>

DEGREE:

**Master of Education with a specialty in Curriculum and Teaching
Plan A (30 credits)**

The Department of Graduate Studies of the Faculty of Education offers the Master of Education (Plan A) programs with a specialty in Curriculum and Teaching. The subspecialties are:

**Curriculum and Teaching in Science Education Curriculum and
Teaching in Physical Education Curriculum and Teaching in
Mathematics Education Curriculum and Teaching in Spanish
Curriculum and Teaching in History and Social Studies
Curriculum and Teaching in Learning Technology Curriculum and
Teaching in Curriculum Theory, Design and Evaluation**

TEACHERS:

Gladys R. Capella Noya, Ed.D. Harvard University, 1995. Professor. Power relations within learning environments; curriculum and culture; Democracy and Educational Practice.

Joseph F. Carroll Miranda, Ph.D. New Mexico State University, 2006. Assistant Professor. Technology adoption, learning technologies, critical pedagogy, emergent curriculum, youth culture, school effectiveness, computer science education, big data, emergent research methods.

Kevin S. Carroll, Ph.D. University of Arizona, 2009. Associate Professor. Language planning and policy, translanguaging, bilingual education, and teachers of English to speakers of other languages.

Omar A. Hernández Rodríguez, Ed.D. University of Puerto Rico, 2002. Associate Professor. Study of conceptual development in mathematics, cognitive and metacognitive processes in the solution of mathematical problems; Incorporation of new technologies in mathematics teaching and teacher professional development.

Edwin Martinez Hernandez, Ed.D. University of Puerto Rico, 2000. Associate Professor. Integration of technologies in instructional events and their effect on learning.

María Soledad Martínez Miranda, Ph.D. University of Wisconsin-Madison, 1991. Professor. Curricular Theory and Research; critical pedagogy; study of curriculum design; educational policies.

Rose Marie Santiago Villafañe, Ph.D. University of Murcia, 2005. Associate Professor. Sociolinguistic analysis of texts; the development of linguistic awareness; writing and reading as cognitive processes; curriculum design in the area of Spanish; students as language researchers; teachers' linguistic attitudes towards the language they teach; competency-based curriculum development.

José Soto Sonera, Ed.D. University of Puerto Rico, 2006. Associate Professor. Curriculum design and evaluation; science teaching and learning; cognitive processes and conceptual development from historical-cultural and anthropological perspectives.

María del Carmen Zorrilla Lassus, Ed.D. University of Puerto Rico, 1998. Professor. Perception of geographical spaces, didactics of geography; Neurodidactic considerations in geography through the use of emerging technologies.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

Master's Degree in Education with a specialty in Curriculum and Teaching (Plan A):

Minimum Requirements of the Master of Education Program with a Specialty in Curriculum and Teaching (Plan A) with a subspecialty in Science Education, Physical Education, Mathematics Education, Spanish, History and Social Studies, Learning Technology, y Curriculum Theory, Design and Evaluation:

1. Bachelor's degree from an accredited university or its equivalent
2. Minimum academic index of 3.00 on a scale of 4.00 in

Baccalaureate Specific requirements for subspecialties in Science Education, Physical Education, Mathematics Education, Spanish, History and Social Studies:

1. Eighteen (18) credits at the baccalaureate level in the subspecialty

Specific requirements for the Learning Technology subspecialty:

1. Competence in the management of Information and Communication Technologies (ICT). This will be confirmed in the interview process.
2. Three (3) credits at the baccalaureate level in learning technology.

Documents and Other Requirements for the Application for Admission

1. Application for Admission to Graduate Studies through the "ApplyYourself" platform
2. Two Official Copies of Baccalaureate Credit Transcripts
3. Two (2) letters of recommendation for Graduate Studies in electronic format or on paper
4. Interview
5. Proficiency in Spanish and English

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of no less than 3.00 in the courses considered in the Curriculum for graduation.
4. Meet all of the above requirements within a period of four (4) years from the date you begin your graduate studies. To this end, it is very important that the student prepares a study plan with his/her academic advisor.

PROGRAM OF STUDY:

The program of study of the Master of Education with a specialty in Curriculum and Teaching (Plan A) comprises courses in **four (4) Components**: General Professional Area, Specialized Professional Area, Subspecialty Area, and Elective Course Area. Students take courses in the subspecialty area of their interest. Subspecialty courses consist of required courses and elective-directed courses. The table below describes the general syllabus of the Master's Degree (Plan A):

PLAN A

Distribution of Credits by Components/Areas of Study	Credits
Component: General Professional Area	
Fundamentals	3
EDUC 6509 - Research Methods in Education	3
Component: Specialized Professional Area	
Core Curriculum	3
EDUC 6517: Curriculum Principles	
EDUC 6900: Subject Exam	0
EDUC 6551: Research and Creation Seminar	3
Component: Subspecialty	
Required Courses	6
Elective-Directed Courses	6
Component: Elective Courses Area	
Free Electives	6
Total Credits	30

CORE CURRICULUM COURSE

- EDUC 6517 Principles of Curriculum

REQUIRED COURSES BY SUBSPECIALTY

Required Courses: Curriculum and Teaching in Science Education Subspecialty

- EDUC 6370 Seminar Teaching Science in High School
- EDUC 6599 Programmatic Trends in Science Education at the Secondary and Graduate Levels

Required Courses: Curriculum and Teaching in Physical Education Subspecialty

- EDUC 6620 Fundamentals of Physical Education
- EDUC 6456 Assessment in Physical Education: Analysis and Practice in the School Environment

Required Courses: Curriculum and Teaching in Mathematics Education
Subspecialty

Choose two (2) courses from the following:

- EDUC 6058 Calculators and Computers in the Teaching of Mathematics at the Intermediate and Higher Level
- EDUC 6128 Teaching and Learning Mathematics in Elementary School: Theory and Practice
- EDUC 6528 Curricular Innovations in the Teaching of Mathematics
- EDUC 6530 Workshop for the preparation of new materials for the teaching of mathematics

Required Courses: Curriculum and Teaching in Spanish Subspecialty

- EDUC 6280 Study and design of curricular content in the area of Spanish
- EDUC 6520 Reading in High School

Required Courses: Curriculum and Teaching Minor in History and Social Studies.

- EDUC 6290 Innovative Approaches to Social Studies Teaching
- EDUC 6300 Programmatic Trends in Social Studies Curriculum

Required Courses: Curriculum and Teaching in Learning Technology Subspecialty

- EDUC 6645 Principles of Instructional Design
- EDUC 6720 Learning Technologies

Required Courses: Curriculum and Teaching Subspecialty in Curriculum Theory, Design, and Evaluation

- EDUC 6730 Curriculum Design of Educational Programs

Choose one (1) course from the following:

- EDUC 6735 Seminar on Practices, Trends and Controversial Issues
- In curriculum design
- EDUC 8048 Theories of Curriculum Development
- EDUC 8160 Theory and Conceptualization of the Integrated Curriculum

ELECTIVE-SUBSPECIALTY-LED COURSES

Elective-Directed Courses: Curriculum and Teaching in Science Education
Subspecialty

- Graduate courses in scientific disciplines

Elective-directed courses; Curriculum and Teaching in Physical Education Subspecialty

- Graduate courses in Physical Education or related areas related to the student's academic interests and professional projections, with the prior approval of the academic advisor

Elective-Directed Courses: Curriculum and Teaching in Mathematics Education Subspecialty

- Courses coded with MATE 5000, MATE 6000, MATE 8000
- Graduate courses whose contents are of a panoramic nature, and not of concentration, or of certain subjects or authors. These should include courses in literature and linguistics.

Elective-Directed Courses: Curriculum and Teaching Subspecialty in History and Social Studies

- Graduate courses in history, social sciences offered in the Department of History, in the Faculty of Social Sciences

Elective-Directed Courses: Curriculum and Teaching in Learning Technology Subspecialty

- Graduate courses in learning technology or related areas related to the student's academic interests and career prospects, with prior approval from the academic advisor.

Elective-Directed Courses: Curriculum and Teaching Subspecialty in Curriculum Theory, Design, and Evaluation

- Graduate courses defined according to the student's academic interests and professional projections, with the prior approval of the academic advisor.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6509: Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6517 Principles of Curriculum

Three credits. Three hours of lecture a week.

Discussion of problems and issues related to curriculum development and improvement,

study of curricular decisions, and the theoretical basis for making and testing such decisions. Particular consideration will be given to the need for changes in the curriculum and for research in this field.

EDUC 6900 Subject Exam

Credits: 0

EDUC 6551 Curriculum and Teaching Research Seminar

Three credits. Three hours of seminar per week.

Prerequisites: Have passed the subject exam.

Integrative experience through which the student demonstrates his/her research and creation competencies in Curriculum and Teaching. This experience revolves around the academic and professional interests of the student.

OTHER COURSE DESCRIPTIONS:

EDUC 6008 The Written Language in Spanish: Teaching, Processes and Approaches

Three credits. Three hours of lecture a week.

Critical study of the acquisition and development of written language from a cognitive and social perspective. The relationships between writing and the subject (learner) are examined by analysing the implications of existing theories, curricular practices and methodological approaches. Based on the fieldwork carried out by the students, units will be designed that articulate the elements in the process of acquisition and development of writing skills.

EDUC 6009 Writing Academic Articles

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

This course examines and incorporates the processes and resources of academic writing while the student writes an article in which they research and develop a topic in their discipline. Research and writing strategies are applied and contextualized through the basic components of the academic discourse that seeks to be published: functionality, purpose, typologies, depth of content, and reader profile.

EDUC 6036 Methods for Adult Education

Three credits. Three hours of lecture a week.

Theories and methodologies that facilitate adult learning will be reviewed. Emphasis will be placed on the application of the systematic approach to teaching and on the competencies of the adult educator. Existing research will be used.

EDUC 6037 Trends in Adult Education

Three credits. Three hours of lecture a week.

Demographic, social and technological trends justifying adult education will be analysed; the scope and projection of the programmes and the factors that condition adult learning. Emphasis will be placed on existing statistics and research.

EDUC 6038 Teaching, Learning, and Creativity Through the Natural Sciences Curriculum

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

Critical analysis of perspectives and theoretical proposals that account for human learning and creativity in the natural sciences. The theoretical and empirical basis that sustains these perspectives is investigated, as well as the analysis of their implications for the teaching of natural sciences at the various school levels. Analysis of the factors that promote learning and creativity-genetics, socio-cultural environment, ideologies and misconceptions, among others, and how to address them through the educational process. Evaluation of educational programs and teaching models according to theoretical frameworks.

EDUC 6045 The Curriculum in Adult Education

Three credits. Three hours of lecture a week.

Critical examination of problems inherent in the curriculum in adult education programmes. It includes an analysis and evaluation of the literature, research, and studies related to curriculum design for adults. Study of the bases of the curriculum for adults and analysis of the basic factors for its planning. Study and discussion of factors that affect adults and alternatives for the current curriculum. Visits to schools where adult education programmes exist.

EDUC 6046 The Role of the Adult Educator

Three credits. Three hours of lecture a week.

Analysis of the role of the adult educator. Emphasis will be placed on the competencies that adult educators should possess and on the application of these competencies in accordance with the role they play. Existing research will be used.

EDUC 6047 In-Service Education in Educational Settings: Theory, Research, and Action

Three credits. Three hours of lecture and fifteen hours of supervised practice per week.

Critical analysis of the in-service education process to facilitate the professional development of teaching staff in educational settings. Development of conceptual, technical and social competencies to facilitate the design, implementation, evaluation and review of in-service education programmes in various educational settings.

EDUC 6048 Didactic Reflection: Theory, Research and Action

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

Conceptualization, demonstration, and practice of options and processes aimed at providing support and facilitating educators' reflection on their practice, based on the analysis of research, controversies, challenges, and possibilities.

EDUC 6055 Microcomputers in Education

Three credits. Three hours of lecture a week. Introduction to the use of the microcomputer in education. Develop attitudes and skills in the appropriate use of the microcomputer (literacy). Participants are expected to use it in their professional roles as teachers, supervisors, administrators, counselors, and researchers.

EDUC 6058 Calculators and Computers in the Teaching of Mathematics at the Intermediate and Higher Levels

Three credits. Three hours of lecture a week.

Applications of pocket calculators and microcomputers in mathematics teaching. The instrumentation of scientific calculators and microcomputers of several classics of mathematics. Problems of statistics and probability and the Monte Carlo method are discussed.

EDUC 6059 The Design of Computerized Instruction

Three credits. Three hours of discussion a week.

Discussion of models and techniques for the design, development, and evaluation of computerized instruction. Analysis of the different computerized systems for the development of educational application programs. Discussion of the research literature relevant to the design of educational computer programs. Design of a computer program for educational purposes.

EDUC 6061 Development of Computerized Instruction

Three credits. Three hours of discussion a week.

Prerequisites: EDUC 6055, Practice in the Development of Computerized Instruction.

Discussion of the different types of systems for the development of computerized instruction and other resources such as software for the creation of graphics, animations, and films, and equipment such as digitizers, CD-ROMs, and video machines. Development of the programming skills necessary for the development of educational programs.

EDUC 6063 Design and Production of Computerized Multimedia Presentations

Three credits. Two hours of discussion and two hours of lab time per week. Prerequisites: EDUC 6055, 6059 Analysis of the process of planning and production of computerized multimedia presentations. Emphasis on the relationship that must exist between the objectives, the materials and the clientele for whom they are designed, as well as the learning theories relevant to them. Discussion of the literature on the design and development of graphic material. Analysis of the characteristics of the equipment and programs available for the development of multimedia applications. Development of an application that makes use of peripherals such as videodisc machines, CD-ROMs and compact discs, among others.

EDUC 6068 Discipline Models and Strategies in Teaching Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permit Study and analysis of discipline models and strategies in the teaching-learning process.

EDUC 6069 Alternative Conceptions in Chemistry: Educational Implications and Didactic Approaches

Three credits. Three hours of lecture, discussion and seminar per week. Prerequisites: QUIM 3001-3002 Study of the mental formulation of students' alternative conceptions in chemistry. The contributions of different philosophical, psychological, and neurobiological currents to the understanding of the mental processes that guide the construction of scientific knowledge are identified, seminal studies are analyzed to explore the alternative conceptions that students have about scientific concepts, and the methodologies used for these purposes are examined, among others: heat, temperature, the participatory nature of matter, covalent bonding, chemical kinetics, chemical equilibrium, and electrochemistry. Ways to explore the initial conceptions that students bring into the classroom and methodologies that contribute to conceptual change are addressed based on the analysis of the relevant research literature.

EDUC 6085 Computer Programming in the BASIC Language for Teaching

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6056 Knowledge of the BASIC programming language is expanded from a pedagogical point of view so that participants can create computerized educational programs in which they make use of the capabilities of microcomputers to facilitate the teaching-learning process.

EDUC 6105 Study, Analysis and Design of the Curricular Content of School Theatre

Three credits. Three hours of lecture a week.

Study and analysis of different processes, methods and techniques inherent to drama as an academic discipline, with emphasis on theatrical animation. Design of the curricular content of school theatre programmes.

EDUC 6106 Supervision of School Theatre Teaching

Three credits. Three hours of lecture a week.

Processes, methods and techniques for teaching theatre from an educational perspective by supervision.

EDUC 6127 Teaching-Learning Science at the Elementary Level: Theory and Practice

Three credits. Three hours of lecture a week.

Seminar aimed at the analysis and evaluation of research on the development of knowledge and learning in the natural sciences. Application of relevant theoretical frameworks in instructional design and effective teaching of the elementary learner based on the educational objectives of science at the island and school district levels. It requires clinical, laboratory, and field experiences.

**EDUC 6128 Elementary School Mathematics Teaching and Learning: Theory
y Practice**

Three credits. Three hours of seminar per week.

Analysis and evaluation of research around the construction of knowledge and learning of mathematics in elementary school. Research and application of relevant theoretical frameworks to the design and effective teaching of elementary students, based on educational objectives and standards of the discipline.

**EDUC 6135 Development of Scientific and Logical-Mathematical Thinking in Early
Childhood**

Three credits. Three hours of lecture a week.

Analysis of the sequence of cognitive development that results in the construction of scientific and logical-mathematical knowledge. Relevant research studies and their application in the classroom. Clinical field and laboratory experiences will be planned to observe, analyze and carry out educational activities aimed at the development of logical-mathematical and scientific thinking in educational contexts at home and at school.

**EDUC 6140 The Role of Puerto Rican Historical and Cultural Experience in Bilingual
and Bicultural Education**

Three credits. Three hours of lecture a week.

Course designed to provide knowledge about the cultural and historical heritage of the Puerto Rican child; the role of bilingual, bicultural children in the learning process of the bilingual and bicultural child and in the development of the curriculum-relationship of this heritage in transitional schools; Field trips may be included, role of ethnic studies. This course will be offered in face-to-face, hybrid and online modalities.

EDUC 6155 Modern Trends in Social Studies at the Elementary Level

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6095 Review of the literature and recent research on social studies at the elementary level.

EDUC 6280 Study, analysis and design of curricular content in the area of Spanish

Three credits. Three hours of lecture a week.

Study and analysis of different ways of designing curriculum in the area of Spanish. Discussion of new twists and approaches that enable the student to present programmatic alternatives to the Spanish curriculum based on observation, analysis, and evaluation of a curriculum with an emphasis on systematic analysis of instruction. Students will visit classrooms and educational projects. They will present innovative projects.

EDUC 6285 Pragmatic Teaching of Spanish Grammar

Three credits. Three hours of lecture a week.

The development of the skills of identifying, producing and teaching the grammatical elements and structures of the Spanish language through the use of a modern methodology of a pragmatic nature. To achieve these objectives, various practical exercises inspired by a pragmatic synthesis of various grammatical theories are offered.

EDUC 6290 Innovative Approaches to Social Studies Teaching

Three credits. Three hours of lecture a week.

Analysis of innovations related to teaching and strategies in history and other fields of social studies. Emphasis on laboratory experience where the theories being discussed are exemplified, the use of educational technology, and analysis of relevant Puerto Rican literature. Face-to-face, hybrid and online course.

EDUC 6300 Programmatic Trends in Social Studies Curriculum Teaching

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005 or its equivalent Study and analysis of the different ways of designing curriculum in history and other areas of social studies with emphasis on the most recent approaches. Basic elements such as philosophy, courses, programs, experiences, orientation processes, student activities, etc., and the procedure for updating them will be analyzed. It will be conducted in the form of a seminar and the student will produce a work in which the concepts studied will be applied. Face-to-face, hybrid and online course.

EDUC 6356 Literary Genres: Innovative Approaches to Teaching Them

Three credits. Three hours of lecture a week.

Analysis of research on trends and approaches in literary production and its pedagogical perspective. Application of new trends for text analysis. The development and implementation of innovative teaching strategies and techniques will be encouraged. Clinical experiences. Preparation of daily plans, testing of materials, demonstration classes.

EDUC 6370 Seminar on Strategies and Resources in High School Science Teaching

Three credits. Three hours of lecture a week.

Study of selected topics with reference to the teaching of science in secondary school. The following aspects are considered, among others: technical strategies and resources for the teaching of science, assessment of learning in this area, and problems related to the adoption and teaching of new resources.

EDUC 6380 Workshop for Curriculum Design

Three credits. Three hours of lecture or three hours of lab time per week Prerequisite: EDUC 6501-6502, and 6517 Emphasis on curriculum design and production of instructional materials in a variety of disciplines based on systematic analysis of instruction. Curricular material such as guides, manuals, textbooks, and audiovisual and programmed materials

are analyzed, selected, and evaluated. General and small group sessions are conducted by a disciplined team to explore and discuss issues and problems in the curriculum. Innovations in education, active learning modules, extended school year patterns, scheduled instruction, audio-visual materials, behavioral goals as they relate to the curriculum receive due attention.

EDUC 6395 Workshop on Computerized Data Processing in Education - Part I

Three credits. An hour and a half of lectures and three hours of laboratory work a week. Prerequisite: EDUC 6509 and EDUC 6390, The course is conducted in the form of a workshop, divided into three parts or units of study in which the content, organization and integral operation of the programs that make up the *Statistical Package for the Social Sciences (SPSS)* are discussed. It considers in its initial part, by way of introduction and review, the process of scientific research; the levels of measurement, the appropriate statistical techniques, the conceptualization of a research problem, the collection and coding of data.

EDUC 6430 Educational Technology in Curriculum Design

Three credits. Three hours of lecture a week.

She studies educational technology and the role it plays in curriculum design.

Develop skills in technological resources, their use, evaluation, selection and systematic application to the curriculum. It will provide the opportunity for students to apply this knowledge in the design and production of a project in the area of their specialization.

EDUC 6450 Advanced Course in Physical Education for the Disabled (Practicum)

Six credits. Twelve hours of lab time and three hours of seminar time per week. The course offers laboratory experiences and advanced practice in teaching physical education to children with disabilities. Emphasis will be placed on the areas of teaching motor skills, theories and through seminars or workshops for normal and disabled children. The course will be based on the mastery of execution criteria and the development of specific competencies.

EDUC 6500 Institute on Bilingualism in Puerto Rico

Six credits. Twenty-five hours a week.

Prerequisite: Baccalaureate Its sociological, cultural and historical background. Identity development in the New Rican child. Its linguistic characteristics. Strategies for teaching Spanish and English to these children. Evaluation of existing materials and preparation of new strategies for evaluation and research.

EDUC 6516 Linguistics and the Teaching of English Readings to Spanish-Speaking Children

Three credits. Three hours of lecture a week.

Analysis of the elements of language; examination of teaching-learning in the development of (bi)literacy; oral and written expression in English with an emphasis on capitalizing on students' linguistic and cultural resources; Comparative linguistic analysis of Spanish and

English. This course will be offered in face-to-face, hybrid and online modalities.

EDUC 6518 Teaching Reading in Spanish to Bilingual and Bicultural Children Whose Language is English

Three credits. Three hours of lecture a week.

Analysis of teaching-learning problems in evolutionary reading, oral and written expression in Spanish, analysis of the elements of language and cognitive style, relationship of audio-linguistic perception with bilingualism and language development, comparative linguistic analysis of Spanish and English.

EDUC 6519 High School Curriculum

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6517; Discussion of the major developments in the curricular field from the period 1890 (the Committee of Ten) to the present. The conditions that affect curricular change will be analyzed and the "issues" in the construction of the curriculum will be examined, as well as the consideration of trends in curriculum design. Special attention will be given to the work done by recent committees to improve the curriculum

EDUC 6526 Strategies for Curriculum Change

Three credits. Three hours of lecture a week.

The contribution of research in the curricular field. The role of the educational leader in changing and improving the curriculum. The need for and use of the laboratory and research as a means to produce innovations related to curricular change.

EDUC 6528 Curricular Innovations in Mathematics Teaching

Three credits. Three hours of lecture a week.

Focus and appreciation of curricular innovations that have applications in the field of mathematics teaching. The student will have the opportunity to prepare and evaluate curricular designs.

EDUC 6530 Seminar: Workshop on the Production of New Materials for the Teaching of Mathematics

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005 or its equivalent Includes the creation and elaboration of appropriate models for the establishment of communication channels and techniques for individualization in mathematics teaching. It will be based on a systematic approach to instruction and students will develop projects applying the theory analyzed. Face-to-face, hybrid and online course.

EDUC 6535 The Elementary School Curriculum

Three credits. Six and a half hours of lecture per week.

Prerequisite: EDUC 6517 Study of curriculum development in elementary school, with emphasis on controversial issues and trends in their structuring. Analysis of the conditions influencing curricular change.

EDUC 6550 History of Pedagogical Ideas in Puerto Rico, Nineteenth and Twentieth Centuries

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005, or its equivalent Research and discussion of the pedagogical ideas that have guided the educational system in Puerto Rico from the nineteenth century to the present. It begins with an overview of the state of education in Latin America during the nineteenth century. This overview includes the analysis of philosophical and educational trends during the nineteenth century and compares them with the orientation of education in the Spanish colonial era. In the case of Puerto Rico, the contribution to history of the pedagogical ideas made by teachers and thinkers, such as Baldorioty, Tapia, Eugenio María de Hostos and others, stands out. The 20th century in Puerto Rico is analyzed in terms of the encounter of Anglo-Saxon culture with Hispanic and Puerto Rican culture. The course studies the management of the commissioners and secretaries of public instruction and rectors of the University of Puerto Rico, specifically highlighting the ideas that have served as educational policy in our education system during the present century.

EDUC 6566 Diagnosis and Correction of Deficiencies in Mathematics at the Elementary Level

Three credits. Three hours of seminar per week.

Seminar aimed at the diagnosis and identification of deficiencies in mathematics at the elementary level, analysis of errors and the design of corrective teaching-learning strategies. It will include a hands-on laboratory with elementary school children.

EDUC 6569 Educational Innovations and Strategies for Their Implementation

Three credits. Three hours of lecture a week.

Study and analysis of educational innovations and strategies for their implementation in educational organizations. Course to be offered hybrid.

EDUC 6570 Design of Materials to Facilitate Teaching-Learning in Elementary School

Three credits. Three hours of workshop per week.

Prerequisite: Concentration in preschool education: EDUC 6115, Concentration in elementary education: EDUC 6535 Workshop for the preparation of teaching materials that facilitate the acquisition of concepts and the development of skills in the curricular areas. Recent research on how children learn will be taken as a foundation.

EDUC 6576 Curriculum Development in its Relation to Learning within the Social, Cultural and Philosophical Framework

Six credits. Six hours of lecture per week.

In-depth study of the theory and design of the curriculum, considering the philosophical, social and cultural bases applied to our reality and educational needs. Special attention is given to the analysis and research of problems related to curriculum development. Provides experiences for the development of skills necessary for the preparation of individualized curriculum designs and materials.

EDUC 6588 Writing and Style in Technical Research Language

Three credits. Three hours of lecture a week.

The purpose of this course is to develop skills in the use of written language for research. It will emphasize the structure, tone and style of research papers with application to the preparation of dissertations, monographs, reports and theses.

EDUC 6596 Classroom Assessment

Three credits. Three hours of lecture a week.

Study of the theory and methodology of student learning assessment. Emphasis on the development, adaptation, and use of techniques and tools. It includes the analysis and interpretation of data aimed at making judgments about student achievement.

EDUC 6607 Education in Rural Areas

Three credits. Three hours of lecture a week.

This course is offered for school administrators, supervisors, guidance counselors, and teachers who work or aspire to work in rural areas. It tries to offer these personnel the opportunity to understand the concept of ruralia as an area that arises from an area of low population density, that lives mostly from agriculture, that remains attached to traditional cultural values and practices and for whom the rapid social changes of the modern era represent a challenge. The mission of the school is studied and its relationship with the organization and social processes of the rural population, with the social problems faced by this population, and with rural planning and development programs in Puerto Rico.

EDUC 6615 Vocational and Technical Education: Principles and Practice.

Three credits. Three hours of lecture a week.

Analysis of the development of vocational education with special attention to its projections e implications for preparing personnel for the world of work.

EDUC 6617 Curriculum Development in Vocational Education

Three credits. Three hours of lecture a week.

Analysis and application of curricular models for vocational education, including its parts. Special attention to competency-based curricular models.

EDUC 6618 Educational Leadership in Vocational Education

Three credits. Three hours of lecture a week.

Study and analysis of the theory and practice of vocational educational leadership. Examination of the specific problems faced by the vocational administrator in carrying out his duties in technical-vocational schools.

EDUC 6620 Fundamentals of Physical Education

Three credits. Three hours of lecture a week.

Analysis and study of the fundamentals of physical education and its relationship with the physical education program. Face-to-face, hybrid and online course.

EDUC 6625 History of Physical Education

Three credits. Three hours of lecture a week.

The role of physical education in people's lives throughout history to the present, with an emphasis on the events, movements, and people that have influenced the development of physical education. Greek and Roman concepts compared to the Renaissance and reformism. Important events in the history of Physical Education in Puerto Rico.

EDUC 6627 Stress Testing: Methods and Procedures

Three credits. Three hours of lecture a week.

The fundamentals of physiology, anatomy, pathophysiology, and human psychology necessary for the effective administration of stress tests are discussed. The following topics will be included: electrocardiography, equipment calibration, patient screening, protocol selection, recording and summarizing test data, basic cardiopulmonary resuscitation techniques, emergency management, and exercise prescription.

EDUC 6629 Organization and Administration of Secondary and Post-Secondary Physical Education and Sports Administration Programs

Three credits. Three hours of lecture a week.

The study of the nature and importance of the administration and organization of Physical Education programs – academic and extracurricular. Emphasis on the application of administrative theories, concepts, and skills in the development of Physical Education programs in the K-12 and postsecondary education system.

EDUC 6645 Principles of Instructional Design

Three credits. Three hours of lecture a week.

The essential characteristics that instruction must have for the teaching-learning process to be successful. External events of instruction and how they affect internal learning processes are analyzed, based on learning theories. Different models of systematic instructional design and their contribution to the improvement of learning and teaching processes sustained by research in this field are studied. Hybrid Course.

EDUC 6646 Design, Implementation, and Evaluation of Educational Technology Programs

Three credits. Three hours of lecture a week.

Skills in designing, developing, implementing, and evaluating instructional technology programs at different levels and in different educational contexts. It analyzes social, human, philosophical and economic factors that affect the processes of integration of technology into the educational system. It includes the analysis of the components of the system such as use, evaluation and selection, cataloguing, production, maintenance and repair of equipment, based on the analysis of instruction and curriculum. It emphasizes new technologies such as computer-based teaching, as well as other teaching systems and their implications. Identify paradigms that can be used in program development and implementation.

EDUC 6647 Design and Production of Multisensory Materials

Three credits. Three hours of lecture a week.

This course develops skills and knowledge in the design and production of multisensory materials. It emphasizes the relationship that must exist between the objectives, the materials and the clientele for whom they are designed.

EDUC 6649 Contemporary Issues in Technology: Children's Television

Three credits. Three hours of lecture a week.

A review of the literature on the subject of children's television. It covers the history of children's television and discusses key issues such as stereotypes, violence, advertisements, consumerism, regulations and future trends. The symbolic message of some children's programs is analyzed in order to know its influence on the child's behavior.

EDUC 6650 Online Course Preparation

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

This course studies how to prepare courses that can be taken in whole or in part through the internet. Design and production aspects are examined using commercial computer programs. Face-to-face and hybrid course.

EDUC 6659 Telecommunication by Means of the Computer and its Application in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6055 Study of the general aspects of telecommunication through local networks and external networks (internet). Use of Internet resources. Discussion of educational projects and applications of telecommunication through the computer. Development of documents to be published on the *World Wide Web*. Analysis of ethical issues, trends and other issues of interest related to the use of computer communication.

EDUC 6660 Technical Analysis of Needs in Education

Three credits. Three hours of lecture a week.

Study of the process for the design and production of the technical needs analysis ("new Assessment") in the field of education.

EDUC 6666 The Study of Needs and Educational Planning

Three credits. Three hours of lecture a week.

Study of needs and their role in educational planning and their implications for the administrator. The student, as a future administrator, will relate to the types, models, strategies, techniques, instruments, tasks and activities of the needs study. You will integrate all of these experiences when planning and conducting a needs study in an educational institution.

EDUC 6668 Seminar on Planning Techniques

Three credits. Three hours of lecture a week.

A more in-depth and comprehensive study of educational planning techniques. It includes the description, advantages, disadvantages and guidelines for the implementation of these techniques. The course also provides experiences for the application of planning techniques to real situations within the context of education in Puerto Rico.

EDUC 6675 Instructional Message Design

Three credits. Three hours of lecture a week.

Prerequisite: EDFU 3001-3002 Study and analysis of instructional material design principles based on research in the areas of learning psychology and development of educational materials. Face-to-face and hybrid course.

EDUC 6915 Production and Textualization of Knowledge

Three credits. Three hours of seminar per week.

Prerequisite: EDUC6588 The processes and resources of expository-argumentative writing are examined and applied in the final phase of the research text. The student analyzes and interprets their data in relation to writing strategies that transform and textualize knowledge. The coherence and cohesion of the text is sought after its final revision.

EDUC 6995 Independent Study

One to three credits. One to three hours contact.

Prerequisite: Teacher's approval.

It provides graduate students with individual, independent work in a particular area of interest or field of specialty, which will not duplicate the course offerings of the Department of Graduate Studies. Course activities could include cooperative projects, monographic papers, and others, the purpose of which is to make the curriculum more flexible and serve the interests of students. Requires teacher approval to enroll. This course can be taken up to a maximum of nine credits.

EDUC 6997 Curriculum Construction and Design

Two to three credits. Two to three hours of lecture and workshop per week.

Issues and problems in the design of teaching programs. Emphasis on the development of theories and research in the field of curriculum design. The course will consist of three main parts: 1. The rationale for curriculum design; 2. Curriculum design for the elementary level; 3. Curriculum design for the secondary level. This course will be taught by team.

EDUC 6998 Fieldwork for Curriculum Design and Instructional Strategies

From two to six credits. Two to six hours of lecture or laboratory time alternated per week.

The student will dedicate a portion of his/her weekly time to one or more educational centers, public or private school, other educational centers such as Head Start, colleges, universities, or others, with an emphasis on identifying and examining problems related to the curriculum. You will then work on new curriculum designs, instructional strategies, and strategies for curriculum change.

EDUC 8007 Teaching Points of Contention in Social Studies

Three credits. Three hours of lecture a week.

Analysis and discussion of pertinent issues in social studies for which there are opposing positions. It includes the study of strategies for thematic presentation in the classroom. Face-to-face, hybrid and online course.

EDUC 8028 Curriculum Evaluation

Three credits. Three hours of lecture a week.

Advanced study and analysis of the principles that guide the different curricular evaluation strategies, both in the formative and summative aspects. The recommended methodology for curricular evaluation, the selection and application of curricular evaluation strategies and models.

EDUC 8029 Curriculum Construction and Design

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6517 Study and analysis of the principles that guide the elaboration and development of curricular designs and their application to our environment. Issues and problems in the design of teaching programs; Emphasis on the development of curriculum theory and research in the area.

EDUC 8030 Evaluation of Educational Programs

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6509 and EDUC 6390 or equivalent Study of the foundations, models and methods for evaluating educational programs. Face-to-face, hybrid and online course.

EDUC 8031 Seminar: Paradigms, Changes and Trends in Educational Technology I

A credit. Three hours of seminars per week.

Reflective and critical study of paradigms of theoretical or practical interest in the field of educational technology. It emphasizes the study of the historical background, philosophy, paradigm, resources, theoretical frameworks, and research in the field of educational technology. This seminar is the first in a sequence of three seminars offered during consecutive semesters in order to provide the opportunity for further enrichment to the student as he or she progresses through his or her curriculum. Hybrid course.

EDUC 8032 Seminar: Paradigms, Changes and Trends in Educational Technology II

A credit. Three hours of seminar per week.

Reflective and critical study of changes in the professional practice of educational technology. It emphasizes the study of the role of professional associations in the development of educational technology and its ethical and legal implications for teacher teaching. This course is the second in a sequence of three seminars offered over three consecutive semesters in order to provide the opportunity for further enrichment to the student as they progress through their curriculum. Face-to-face and hybrid course.

EDUC 8033 Seminar: Paradigms, Changes and Trends in Educational Technology III

A credit. Three hours of seminar per week.

Reflective and critical study of future trends and projections of theoretical or practical interest in the field of educational technology. The seminar is part of a sequence of three seminars offered during consecutive semesters in order to provide the opportunity for further enrichment to the student as he or she progresses through his or her curriculum. Face-to-face and hybrid course.

EDUC 8045 Advanced Course on Teaching Reading

Three credits. Three hours of lecture a week.

Critical analysis of contemporary theories and practices, trends, problems and controversial issues in reading education from an interdisciplinary perspective. Research methods and techniques in cognitive-conceptual psychology, reading and comprehension processes in relation to curriculum design and teaching practices.

EDUC 8048 Theories of Curriculum Development

Three credits. Three hours of lecture a week.

Study and analysis of theories, models and research that guide curriculum development in various dimensions and from different points of view for the process of planning and organizing the curriculum at different levels of education.

EDUC 8049 Models for Teaching the Natural Sciences at the Secondary and Post-Secondary Levels

Three credits. Three hours of lecture a week.

Analysis of the most relevant theories of human knowledge that have implications for instruction in the branches of natural sciences; analysis of instructional events in terms of the promotion of learning; evaluation on the theoretical basis. Students are expected to learn how to describe theories, apply them in the design and development of instruction in traditional natural science subjects, and formulate models that support effective learning and the development of thinking skills.

EDUC 8050 Educational Implications of Science Theories

Three credits. Three hours of lecture a week.

The study of concepts about the nature and philosophy of science through the critical analysis of different theories of thought, knowledge, and scientific inquiry. The development and evolution of theories is traced in the social-historical context. In addition, the implications of the theories for science education are studied and research projects are conducted on problems pertinent to the topics of study.

EDUC 8057 Linguistic Theory and Didactics of Language

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the principal Application of linguistic theories to the teaching of Spanish as a mother tongue. The general principles of mother tongue acquisition are considered and attention will be focused on the lexical, morphosyntactic and discursive aspects of the language and its incorporation into the curriculum.

EDUC 8059 Models for Teaching Mathematics at the Secondary and Postsecondary Level

Three credits. Three hours of lecture a week.

Study, analysis and evaluation of models used in the teaching of mathematics, with emphasis on the creation, preparation and adaptation of appropriate teaching material for the secondary and post-secondary levels.

EDUC 8060 Education as Science: A Critique

Three credits. Three hours of lecture a week.

It identifies the human image common to all the sciences of man. It identifies the generic properties of this image and examines its implications for education.

EDUC 8065 Research Techniques: Linguistics in Education and Curriculum

Three credits. Three hours of lecture a week.

Linguistic research, its current diversification and its applications to the pedagogical field. Emphasis on the Puerto Rican reality.

EDUC 8066 Public and Private Post-Secondary Educational Institutions in Puerto Rico

Three credits. Three hours of lecture a week.

The course covers the historical development of public and private post-secondary education institutions in Puerto Rico. It analyzes the various types of post-secondary institutions in Puerto Rico and compares them from the point of view of their philosophy, administrative structure, educational programs, student services, type of faculty, and costs. Finally, some of the central problems of these institutions are analyzed.

EDUC 8078 Telecommunication by Means of the Computer and its Application in Education

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

Prerequisites: EDUC 6055 or Equivalent.

Study of telecommunications through local and external networks. Evaluation of research, projects and educational applications of telecommunication through the microcomputer. Analysis of ethical-legal aspects, trends and other issues related to the use of communication through the computer. Face-to-face and hybrid course.

EDUC 8079 Technology, Technology, Society and Education

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

Study of the relationship between technology, society and education from a historical, philosophical and ethical perspective. Analysis of the impact of technology on education and its comparison with advances in other professional fields, as well as the role of research in the integration of technology in education. Face-to-face and hybrid course.

EDUC 8087 Physical Education Teacher Preparation Programs

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

Prerequisites: EDUC 6620 Study of the philosophical, theoretical, and curricular foundations of programs aimed at preparing teachers in physical education. Comprehensive design and evaluation of programs for teacher preparation in this area.

EDUC 8130 Models for Teaching, Monitoring, and Evaluating English as a Second Language Programs

Three credits. Three hours of lecture a week.

Analysis of topics and principles of first and second language teaching. Models of the methods and techniques used in teaching and supervising the curriculum development of English as a second language will be an integral part of the course. It will also include the analysis and design of assessment instruments in the teaching of English as a second language.

EDUC 8135 Seminar: Controversies in Education

Three credits. Three hours of lecture a week.

Analysis of controversial issues faced by administrators of public and private education systems in Puerto Rico and other countries of great educational development. Specific issues may vary from country to country and from time to time, but broad areas of knowledge will be identified and studied, such as the social function of education, education, the purposes of education and the educator and his or her role in the educational process, among others.

EDUC 8137 History Teaching as a Dynamic Process

Three credits. Three hours of lecture a week.

Study of the interrelation of current events and personalities that impact the development of humanity framed in a historical approach. Include characters as a historical modification variable. The methodology and strategies to carry out these events in an educational setting are discussed, analyzed and exemplified. The course requires constant and instant review. Face-to-face, hybrid and online course.

EDUC 8138 Educational Implications in Historiography

Three credits. Three hours of lecture a week.

Study and analysis of new trends in historiography and their interrelation with education. Emphasis will be given to the importance of this field of study for the different areas of social studies, especially history. Face-to-face, hybrid and online course.

EDUC 8139 Education, History and Culture About Africa and the Black

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

Educational processes related to African and black history and culture are studied, including their impact on our society. Analysis of African problems framed in different historical periods and the present evolution of the continent. The impact of African history on present-day Puerto Rico and the consideration of educational strategies to develop curricular material in the classroom.

EDUC 8140 Language Learning and Acquisition

Three credits. Three hours of lecture a week.

Intensive analysis and application of theories of learning and intellectual development proposed by Thorndike, Skinner, Piaget, Brunner, Bandura, and others to the teaching and learning of English as a second language. The principles underlying the acquisition and learning of a language will be an integral part of the course. Dependent and independent cognitive styles and their implications for second language learning will also be included.

EDUC 8145 Implications of Modern Linguistic Theories in the Teaching of English as a Second Language

Three credits. Three hours of lecture a week.

Study and analysis of linguistic schools, such as Traditional, Structuralism and Transformational. Basic considerations of traditional grammar will be included. The core of the course will be the analysis of the impact of these grammar schools on the teaching of English as a second language.

EDUC 8205 Teaching Models for the Analysis of Literary Text

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6280 or 8029 Study of the teaching models that support the traditional, structural, semiotic and sociological techniques of literary analysis. Relationship of experiences in the analysis of literary texts with curricular knowledge and experiences.

Design of curricular materials that enable the development of literary analysis skills in secondary and post-secondary school.

EDUC 8206 Teaching Spanish in Puerto Rico

Three credits. Three hours of lecture a week.

Documentary research and analysis of the methods used in the teaching of Spanish in Puerto Rico at the elementary, secondary and post-secondary levels. Definition and analysis of problems related to the teaching of Spanish. Critical evaluation of theory and practice.

EDUC 8215 Technical Needs Analysis: Context Assessment

Three credits. Three hours of lecture a week.

Study of the process of identifying and analyzing needs in order to translate them into goals, objectives and plans through the analysis of gaps or gaps between the current state of a scenario, project or program and the desired state in the planning and design, implementation and evaluation of educational systems.

EDUC 8235 Seminar: Practices, Trends, and Controversial Issues in Mathematics Teaching

Three credits.

Study and critical analysis of special topics or specific problems, trends, controversial issues, research results, and contemporary theories and practices in the area of mathematics education with emphasis on the secondary and postsecondary levels. Face-to-face, hybrid and online course.

EDUC 8237 Seminar: Research Topics in Mathematics Education

Three credits. Three hours of seminar per week.

Critical analysis of research on the curriculum and teaching of mathematics and its educational implications.

EDUC 8245 Interdisciplinary Study of Educational Issues

A credit. An hour and a half of lecture a week.

Prerequisite: Permission of the teacher Interdisciplinary study of educational and cultural issues as a result of intellectual historical thought. It includes the critical analysis of theory and concepts, as well as the definition and identification of problems, alternatives and educational practices.

EDUC 8305 Sociology of Scientific and Technological Knowledge: Educational Consequences

Three credits. Three hours of lecture a week.

Students and teachers examine scientific and technological development from the perspective of the sociology of science and its social impact. Together, they analyze the socio-cultural foundation of the natural sciences, considering it as a substantive complement to the epistemology and history of science and its educational consequences. They also study controversies about the sociological meanings of natural science and technology, as well as teaching-learning models that allow the design of units to put the topics examined into educational practice.

EDUC 8308 African Presence in Puerto Rico: Impact on Education

Three credits. Three hours of lectures a week.

Study on the origin and development of the African presence in Puerto Rico. Its role and contributions to national identity, education, Puerto Rican customs and traditions, politics, economy, education, the media, visual arts, theater, music, dance, literature, and religion are critically analyzed. Analysis of the development of racial identity, "whitening", racism, oppression, exclusion and marginalization. The course is framed within educational research at all levels, in the analysis and awareness of African roots and racial issues that influence education in Puerto Rico.

EDUC 8309 Curricular Implications of African Geography

Three credits. Three hours of lecture a week.

Study of the geography of Africa and its curricular implications in order to compare the geographical reality of Africa and Puerto Rico. The student will conduct research and design relevant curricular strategies. The course will emphasize the use of the interdisciplinary method.

EDUC 8900 Candidacy Examination

Zero credits.

The exam is a requirement for students in the doctoral program. It is considered a full load.

EDUC 8981 Doctoral Dissertation

Six credits.

Prerequisite: Have passed the doctoral degree exam. Submit a certificate of completion of the information competency workshop granted by the Gerardo Selles Solá Library, and present evidence of having completed the online module of Responsible Conduct in Research of the CITI program, according to the requirements of Certification 029 of

2012-2013 of the UPRRP Administrative Board. Preparation of the doctoral dissertation, emphasizing the writing of the doctoral proposal and the study of the general procedures for writing a doctoral dissertation.

EDUC 8982 Continuation of Doctoral Dissertation

Zero credits. This course can be repeated three times.

Prerequisites: All courses leading to a degree in the specialty, have passed the degree exam.

Continuation of the preparation of the doctoral dissertation, emphasizing the implementation of the research and the writing of the dissertation.

EDUC 8995 Specialized Directed Study

One to three credits. One to three hours contact.

Prerequisite: Authorization from the Department.

Exploration of specialized topics or issues of particular interest to groups of graduate students under the direction of a faculty member or visiting professor. This course may be taken up to a maximum of nine credits. **Interim Dean:** Dr. Grace Marie Carro Nieves



Director of the Department: Dr. José Soto Sonera

Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi

Curriculum and Teaching Coordinator: Dr. Omar Hernandez **Phone &**

Extensions: (787) 764-0000, ext. 89205, 89196, 89252, 89253

Portal: <http://ege.uprrp.edu/>

DEGREE:

Doctorate in Education with a specialization in Curriculum and Teaching Plan B– Accelerated Path to Doctorate (75 credits)

The Department of Graduate Studies of the Faculty of Education offers the Doctorate in Education with a specialty in Curriculum and Teaching, through an accelerated route, in the following subspecialties:

Curriculum and Teaching in Science Education Curriculum and Teaching in Physical Education Curriculum and Teaching in Mathematics Education Curriculum and Teaching in Spanish Curriculum and Teaching in History and Social Studies Curriculum and Teaching in Learning Technology Curriculum and Teaching in Curriculum Theory, Design and Evaluation Curriculum and Teaching in Teaching English as a Second Language (TESL)

TEACHERS

Gladys R. Capella Noya, Ed.D. Harvard University, 1995. Professor. Power relations within learning environments; curriculum and culture; Democracy and Educational Practice.

Kevin S. Carroll, Ph.D. University of Arizona, 2009. Associate Professor. Language planning and policy, translanguaging, bilingual education, and *teachers of English to speakers of other languages*.

Omar A. Hernández Rodríguez, Ed.D. University of Puerto Rico, 2002. Associate Professor. Study of conceptual development in mathematics, cognitive and metacognitive processes in the solution of mathematical problems; Incorporation of new technologies in mathematics teaching and teacher professional development.

Edwin Martinez Hernandez, Ed.D. University of Puerto Rico, 2000. Associate Professor. Integration of technologies in instructional events and their effect on learning.

María Soledad Martínez Miranda, Ph.D. University of Wisconsin-Madison, 1991. Professor. Curricular Theory and Research; critical pedagogy; study of curriculum design; educational policies.

Rose Marie Santiago Villafañe, Ph.D. University of Murcia, 2005. Associate Professor. Sociolinguistic analysis of texts; the development of linguistic awareness; writing and reading as cognitive processes; curriculum design in the area of Spanish; students as language researchers; teachers' linguistic attitudes towards the language they teach; competency-based curriculum development.

José Soto Sonera, Ed.D. University of Puerto Rico, 2006. Associate Professor. Curriculum design and evaluation; science teaching and learning; cognitive processes and conceptual development from historical-cultural and anthropological perspectives.

María del Carmen Zorrilla Lassus, Ed.D. University of Puerto Rico, 1998. Professor. *Perception of geographical spaces, didactics of geography*; Neurodidactic considerations in geography through the use of emerging technologies.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

Minimum requirements of the Doctoral Programme in Education through an accelerated route (Plan B) for all subspecialties:

1. Bachelor's degree from an accredited university or its equivalent
2. Minimum academic index of 3.00 on a scale of 4.00 in Baccalaureate

Additional requirements for the subspecialties of Science Education, Physical Education, Mathematics Education, Spanish, History, and Social Studies:

1. Eighteen (18) credits at the baccalaureate level in the subspecialty

Requirements for the Physical Education subspecialty:

1. Eighteen (18) credits at the baccalaureate level in Physical Education

Specific requirements for the Teaching English as a Second Language subspecialty:

1. Eighteen (18) baccalaureate-level credits in the subspecialty (courses in TESL will be considered as courses that meet this requirement)

Specific requirements for the Learning Technology subspecialty:

1. Competence in the management of Information and Communication Technologies (ICT). It will be confirmed in the interview process
2. Three (3) credits in learning technology

Documents and Other Requirements for the Application for Admission

1. Application for Admission to Graduate Studies through the "ApplyYourself" platform
2. Two (2) official copies of Baccalaureate credit transcripts
3. Two (2) letters of recommendation for Graduate Studies in electronic format or on paper
4. Interview
5. Proficiency in Spanish and English

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Rio Piedras Campus
2. Pass courses with a grade of no less than "C"
3. Have an academic average of no less than 3.00 in the courses that are considered for graduation
4. Meet all of the above requirements within a period of four (4) years from the date you begin your graduate studies. To this end, it is very important that the student prepares a study plan with his/her academic advisor

PROGRAM OF STUDY:

The study program of the Doctorate in Education with a specialty in Curriculum and Teaching (Plan B) comprises courses in four (4) components: General Professional Area, Specialized Professional Area, Subspecialty Area, and Elective Courses Area. Students take courses in the subspecialty area of their interest. Subspecialty courses consist of required courses and directed electives. The table

The following describes the general curriculum of Plan B using the accelerated route:

PLAN B

Distribution of Credits by Components/Areas of Study	Credits
Component: General Professional Area	
Fundamentals	6
Research	12
Component: Specialized Professional Area	
Core Curriculum	9
EDUC 6905 Doctoral Qualifying Exam	0
EDUC 8900: Candidacy Exam	0
Dissertation	6
Component: Subspecialty	
Required Courses	15
Elective-Directed Courses	18
Component: Elective Courses Area	
Free Electives	9
Total Credits	75

CORE CURRICULUM COURSES

- EDUC 6517 Principles of Curriculum
- EDUC 8028 Curriculum Evaluation
- EDUC 8029 Curriculum Construction and Design

REQUIRED COURSES BY SUBSPECIALTY AREA

Required Courses for the Curriculum and Teaching in Science Education Subspecialty

- EDUC 6370 Seminar Teaching Science in High School
- EDUC 6599 Programmatic Trends in Science Education at the Secondary and Graduate Levels
- EDUC 8049 Models for the teaching of natural sciences at the secondary and postgraduate levels
- EDUC 8050 Educational Implications of Science Theories Choose one

(1) course from the following:

- EDUC 6127 Teaching-Learning of Science at the Elementary Level
- EDUC 8305 Sociology of Scientific and Technological Knowledge

Required Courses for the Curriculum and Teaching Subspecialty in Physical Education

- EDUC 6185 Teaching Styles in Physical Education
- EDUC 6620 Fundamentals of Physical Education
- EDUC 6456 Assessment in Physical Education: Analysis and Practice in the School Environment
- EDUC 8185 Seminar on Emerging Issues and Controversial Issues in Physical Education
- EDUC 8405 Curriculum Design in Physical Education

Choose two (2) courses from the following:

- EDUC 6456 Assessment in Physical Education: Analysis and Practice in the School Environment
- EDUC 6620 Fundamentals of Physical Education

Required Courses for the Curriculum and Teaching in Mathematics Education Subspecialty

- EDUC 8059 Model for the Teaching of Mathematics at the Secondary and Postsecondary Level
- EDUC 8235 Seminar: Practices, Trends, and Controversial Issues in Mathematics Teaching
- EDUC 8237 Research Topics in Mathematics Education Choose two (2) courses from the following:

- EDUC 6058 Calculators and Computers in the Teaching of Mathematics at the Intermediate and Higher Level
- EDUC 6128 Teaching and Learning Mathematics in Elementary School: Theory and Practice
- EDUC 6528 Curricular Innovations in the Teaching of Mathematics
- EDUC 6530 Workshop for the preparation of new materials for the teaching of mathematics

Required Courses for the Curriculum and Teaching in Teaching English as a Second Language Subspecialty

- EING 6565 Advanced Seminar: The Principles of the Teaching and Learning of English as a Second Language
- EING 6566 Seminar, Curriculum, Instruction, and Evaluation of English Programs
- EDUC 8130 Models of Teaching, Supervision and Evaluation in Programs of English as a Second Language

- EDUC 8140 Language Acquisition and Learning
- EDUC 8145 Implications for the Linguistics of English as a Second Language

Required Courses for the Spanish Curriculum and Teaching Subspecialty

- EDUC 6280 Study and design of curricular content in the area of Spanish
- EDUC 6520 Reading in High School
- EDUC 8045 Advanced Course on Teaching Reading
- EDUC 8057 Linguistic Theory and Didactics of Language
- EDUC 8205 Teaching Methods for the Analysis of Literary Text

Required Courses for the Curriculum and Teaching Subspecialty in History and Social Studies

- EDUC 6290 Innovative Approaches in the Teaching of History and Social Studies
- EDUC 6300 Programmatic Trends in Social Studies Curriculum
- EDUC 8007 Teaching Controversial Points in Social Studies Choose three (3) courses from the following:
 - EDUC 8137 The Teaching of History as a Dynamic Process
 - EDUC 8138 Educational Implications in Historiography
 - EDUC 8139 Education, History and Culture about Africa and the Black
 - EDUC 8308 African Presence in Puerto Rico: Impact on Education
 - EDUC 8309 Curricular Implications of African Geography

Required Courses for the Learning Technology Curriculum and Teaching Subspecialty

- EDUC 6645 Principles of Instructional Design
- EDUC 6720 Learning Technologies
- EDUC 8031 Seminar: Paradigms, Changes and Trends in Educational Technology I
- EDUC 8032 Seminar: Paradigms, Changes and Trends in Educational Technology II
- EDUC 8033 Seminar: Paradigms, Changes and Trends in Educational Technology III
- EDUC 8078 Telecommunication by Computer and Its Application in Education
- EDUC 8079 Technology, Technology, Society and Education

Required Courses for the Curriculum and Teaching Subspecialty in Curriculum Theory, Design, and Evaluation

- EDUC 6730 Curriculum Design of Educational Programs
- EDUC 8048 Theories of Curriculum Development

Choose three (3) courses from the following:

- EDUC 6735 Seminar on Practices, Trends and Controversial Issues in Curriculum Design
- EDUC 8160 Theory and Conceptualization of the Integrated Curriculum
- EDUC 8165 Integrated Curriculum Planning, Design, and Evaluation
- EDUC 8167 Curricular Changes and Educational Transformations
- EDUC 8169 Planning and Implementation of Curricular Projects
- EDUC 8170 Seminar: Curriculum Development

ELECTIVE-DIRECTED COURSES BY SUBSPECIALTY AREA

Elective-directed courses for the Curriculum and Teaching in Science Education Subspecialty

- Graduate courses in scientific disciplines

Elective-Directed Courses for the Curriculum and Teaching in Physical Education Subspecialty

- Graduate courses in Physical Education or related areas related to the student's academic interests and professional projections, with the prior approval of the academic advisor.

Elective-directed courses for the Curriculum and Teaching in Mathematics Education Subspecialty

- Six credits in MATE 5000 encoded courses
- Twelve credits in courses with MATE 6000, MATE 8000 coding

Elective-directed courses for the subspecialty of Teaching English as a Second Language

• Graduate content courses (in the areas of linguistics or English literature). This can also be EING 6420, EING 6575 or EING 6577. Elective-directed courses for the Curriculum and Teaching in Spanish Subspecialty

- Graduate courses that provide both a panoramic and a specialized or particular view of the content they serve. It should include, among these, courses in literature, linguistics, literary criticism and technology.

Elective-directed courses for the Curriculum and Teaching Subspecialty in History and Social Studies

- Graduate courses in history, social sciences offered in the Department of History, in the Faculty of Social Sciences.

Elective-directed courses for the Curriculum and Teaching in Learning Technology
Subspecialty

- Graduate courses in learning technology or related areas (e.g., cognition, computer science, technologies, and communications), related to the student's academic interests and career prospects, with prior approval from the academic advisor.

Elective-directed courses for the Curriculum and Teaching Subspecialty in Curriculum Theory, Design and Evaluation

- Graduate courses defined according to the student's academic interests and professional projections, with the prior approval of the academic advisor.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6008 The Written Language in Spanish: Teaching, Processes and Approaches

Three credits. Three hours of lecture a week.

Critical study of the acquisition and development of written language from a cognitive and social perspective. The relationships between writing and the subject (learner) are examined by analysing the implications of existing theories, curricular practices and methodological approaches. Based on the fieldwork carried out by the students, units will be designed that articulate the elements in the process of acquisition and development of writing skills.

EDUC6009 Writing Academic Articles

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

This course examines and incorporates the processes and resources of academic writing while the student writes an article in which they research and develop a topic in their discipline. Research and writing strategies are applied and contextualized through the basic components of the academic discourse that seeks to be published: functionality, purpose, typologies, depth of content, and reader profile.

EDUC 6036 Methods for Adult Education

Three credits. Three hours of lecture a week.

Theories and methodologies that facilitate adult learning will be reviewed. Emphasis will be placed on the application of the systematic approach to teaching and on the competencies of the adult educator. Existing research will be used.

EDUC 6037 Trends in Adult Education

Three credits. Three hours of lecture a week.

Demographic, social and technological trends justifying adult education will be analysed; the scope and projection of the programmes and the factors that condition adult learning. Emphasis will be placed on existing statistics and research.

EDUC 6038 Teaching, Learning, and Creativity Through the Natural Sciences Curriculum

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

Critical analysis of perspectives and theoretical proposals that account for human learning and creativity in the natural sciences. The theoretical and empirical basis that sustains these perspectives is investigated, as well as the analysis of their implications for the teaching of natural sciences at the various school levels. Analysis of the factors that promote learning and creativity-genetics, socio-cultural environment, ideologies and misconceptions, among others, and how to address them through the educational process. Evaluation of educational programs and teaching models according to theoretical frameworks.

EDUC 6045 The Curriculum in Adult Education

Three credits. Three hours of lecture a week.

Critical examination of problems inherent in the curriculum in adult education programmes. It includes an analysis and evaluation of the literature, research, and studies related to curriculum design for adults. Study of the bases of the curriculum for adults and analysis of the basic factors for its planning. Study and discussion of factors that affect adults and alternatives for the current curriculum. Visits to schools where adult education programmes exist.

EDUC 6046 The Role of the Adult Educator

Three credits. Three hours of lecture a week.

Analysis of the role of the adult educator. Emphasis will be placed on the competencies that adult educators should possess and on the application of these competencies in accordance with the role they play. Existing research will be used.

EDUC 6047 In-Service Education in Educational Settings: Theory, Research, and Action

Three credits. Three hours of lecture and fifteen hours of supervised practice per week.

Critical analysis of the in-service education process to facilitate the professional development of teaching staff in educational settings. Development of conceptual, technical and social competencies to facilitate the design, implementation, evaluation and review of in-service education programmes in various educational settings.

EDUC 6048 Didactic Reflection: Theory, Research and Action

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

Conceptualization, demonstration, and practice of options and processes aimed at providing support and facilitating educators' reflection on their practice, based on the analysis of research, controversies, challenges, and possibilities.

EDUC 6055 Microcomputers in Education

Three credits. Three hours of lecture a week. Introduction to the use of the microcomputer in education. Develop attitudes and skills in the appropriate use of the microcomputer (literacy). Participants are expected to use it in their professional roles as teachers, supervisors, administrators, counselors, and researchers.

EDUC 6058 Calculators and Computers in the Teaching of Mathematics at the Intermediate and Higher Levels

Three credits. Three hours of lecture a week.

Applications of pocket calculators and microcomputers in mathematics teaching. The instrumentation of scientific calculators and microcomputers of several classics of mathematics. Problems of statistics and probability and the Monte Carlo method are discussed.

EDUC 6059 The Design of Computerized Instruction

Three credits. Three hours of discussion a week.

Discussion of models and techniques for the design, development, and evaluation of computerized instruction. Analysis of the different computerized systems for the development of educational application programs. Discussion of the research literature relevant to the design of educational computer programs. Design of a computer program for educational purposes.

EDUC 6061 Development of Computerized Instruction

Three credits. Three hours of discussion a week.

Prerequisites: EDUC 6055, Practice in the Development of Computerized Instruction.

Discussion of the different types of systems for the development of computerized instruction and other resources such as software for the creation of graphics, animations, and films, and equipment such as digitizers, CD-ROMs, and video machines. Development of the programming skills necessary for the development of educational programs.

EDUC 6063 Design and Production of Computerized Multimedia Presentations

Three credits. Two hours of discussion and two hours of lab time per week. Prerequisites: EDUC 6055, 6059 Analysis of the process of planning and production of computerized multimedia presentations. Emphasis on the relationship that must exist between the objectives, the materials and the clientele for whom they are designed, as well as the learning theories relevant to them. Discussion of the literature on the design and development of graphic material. Analysis of the characteristics of the equipment and programs available for the development of multimedia applications. Development of an application that makes use of peripherals such as videodisc machines, CD-ROMs and compact discs, among others.

EDUC 6068 Discipline Models and Strategies in Teaching Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permit Study and analysis of discipline models and strategies in the teaching-learning process.

EDUC 6069 Alternative Conceptions in Chemistry: Educational Implications and Didactic Approaches

Three credits. Three hours of lecture, discussion and seminar per week. Prerequisites:

QUIM 3001-3002 Study of the mental formulation of students' alternative conceptions in chemistry. The contributions of different philosophical, psychological, and neurobiological currents to the understanding of the mental processes that guide the construction of scientific knowledge are identified, seminal studies are analyzed to explore the alternative conceptions that students have about scientific concepts, and the methodologies used for these purposes are examined, among others: heat, temperature, the participatory nature of matter, covalent bonding, chemical kinetics, chemical equilibrium, and electrochemistry.

Ways to explore the initial conceptions that students bring into the classroom and methodologies that contribute to conceptual change are addressed based on the analysis of the relevant research literature.

EDUC 6085 Computer Programming in the BASIC Language for Teaching

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6056 Knowledge of the BASIC programming language is expanded from a pedagogical point of view so that participants can create computerized educational programs in which they make use of the capabilities of microcomputers to facilitate the teaching-learning process.

EDUC 6105 Study, Analysis and Design of the Curricular Content of School Theatre

Three credits. Three hours of lecture a week.

Study and analysis of different processes, methods and techniques inherent to drama as an academic discipline, with emphasis on theatrical animation. Design of the curricular content of school theatre programmes.

EDUC 6106 Supervision of School Theatre Teaching

Three credits. Three hours of lecture a week.

Processes, methods and techniques for teaching theatre from an educational perspective y supervision.

EDUC 6127 Teaching-Learning Science at the Elementary Level: Theory and Practice

Three credits. Three hours of lecture a week.

Seminar aimed at the analysis and evaluation of research on the development of knowledge and learning in the natural sciences. Application of relevant theoretical frameworks in

instructional design and effective teaching of the elementary learner based on the educational objectives of science at the island and school district levels. It requires clinical, laboratory, and field experiences.

EDUC 6128 Elementary School Mathematics Teaching and Learning: Theory and Practice

Three credits. Three hours of seminar per week.

Analysis and evaluation of research around the construction of knowledge and learning of mathematics in elementary school. Research and application of relevant theoretical frameworks to the design and effective teaching of elementary students, based on educational objectives and standards of the discipline.

EDUC 6135 Development of Scientific and Logical-Mathematical Thinking in Early Childhood

Three credits. Three hours of lecture a week.

Analysis of the sequence of cognitive development that results in the construction of scientific and logical-mathematical knowledge. Relevant research studies and their application in the classroom. Clinical field and laboratory experiences will be planned to observe, analyze and carry out educational activities aimed at the development of logical-mathematical and scientific thinking in educational contexts at home and at school.

EDUC 6140 The Role of Puerto Rican Historical and Cultural Experience in Bilingual and Bicultural Education

Three credits. Three hours of lecture a week.

Course designed to provide knowledge about the cultural and historical heritage of the Puerto Rican child; the role of bilingual, bicultural children in the learning process of the bilingual and bicultural child and in the development of the curriculum-relationship of this heritage in transitional schools; Field trips may be included, role of ethnic studies. This course will be offered in face-to-face, hybrid and online modalities.

EDUC 6155 Modern Trends in Social Studies at the Elementary Level

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6095, Literature Analysis and Recent Research on Social Studies at the Elementary Level.

EDUC 6280 Study, analysis and design of curricular content in the area of Spanish

Three credits. Three hours of lecture a week.

Study and analysis of different ways of designing curriculum in the area of Spanish. Discussion of new twists and approaches that enable the student to present programmatic alternatives to the Spanish curriculum based on observation, analysis, and evaluation of a curriculum with an emphasis on systematic analysis of instruction. Students will visit classrooms and educational projects. They will present innovative projects.

EDUC 6285 Pragmatic Teaching of Spanish Grammar

Three credits. Three hours of lecture a week.

The development of the skills of identifying, producing and teaching the grammatical elements and structures of the Spanish language through the use of a modern methodology of a pragmatic nature. To achieve these objectives, various practical exercises inspired by a pragmatic synthesis of various grammatical theories are offered.

EDUC 6290 Innovative Approaches to Social Studies Teaching

Three credits. Three hours of lecture a week.

Analysis of innovations related to teaching and strategies in history and other fields of social studies. Emphasis on laboratory experience where the theories being discussed are exemplified, the use of educational technology, and analysis of relevant Puerto Rican literature. Face-to-face, hybrid and online course.

EDUC 6300 Programmatic Trends in Social Studies Curriculum Teaching

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005 or its equivalent Study and analysis of the different ways of designing curriculum in history and other areas of social studies with emphasis on the most recent approaches. Basic elements such as philosophy, courses, programs, experiences, orientation processes, student activities, etc., and the procedure for updating them will be analyzed. It will be conducted in the form of a seminar and the student will produce a work in which the concepts studied will be applied. Face-to-face, hybrid and online course.

EDUC 6356 Literary Genres: Innovative Approaches to Teaching Them

Three credits. Three hours of lecture a week.

Analysis of research on trends and approaches in literary production and its pedagogical perspective. Application of new trends for text analysis. The development and implementation of innovative teaching strategies and techniques will be encouraged. Clinical experiences. Preparation of daily plans, testing of materials, demonstration classes.

EDUC 6370 Seminar on Strategies and Resources in High School Science Teaching

Three credits. Three hours of lecture a week.

Study of selected topics with reference to the teaching of science in secondary school. The following aspects are considered, among others: technical strategies and resources for the teaching of science, assessment of learning in this area, and problems related to the adoption and teaching of new resources.

EDUC 6380 Workshop for Curriculum Design

Three credits. Three hours of lecture or three hours of lab time per week Prerequisite: EDUC 6501-6502, and 6517 Emphasis on curriculum design and production of instructional materials in a variety of disciplines based on systematic analysis of instruction. Curricular material such as guides, manuals, textbooks, and audiovisual and programmed materials

are analyzed, selected, and evaluated. General and small group sessions are conducted by a disciplined team to explore and discuss issues and problems in the curriculum. Innovations in education, active learning modules, extended school year patterns, scheduled instruction, audio-visual materials, behavioral goals as they relate to the curriculum receive due attention.

EDUC 6395 Workshop on Computerized Data Processing in Education - Part I

Three credits. An hour and a half of lectures and three hours of laboratory work a week. Prerequisite: EDUC 6509 and EDUC 6390, The course is conducted in the form of a workshop, divided into three parts or units of study in which the content, organization and integral operation of the programs that make up the *Statistical Package for the Social Sciences (SPSS)* are discussed. It considers in its initial part, by way of introduction and review, the process of scientific research; the levels of measurement, the appropriate statistical techniques, the conceptualization of a research problem, the collection and coding of data.

EDUC 6430 Educational Technology in Curriculum Design

Three credits. Three hours of lecture a week.

She studies educational technology and the role it plays in curriculum design.

Develop skills in technological resources, their use, evaluation, selection and systematic application to the curriculum. It will provide the opportunity for students to apply this knowledge in the design and production of a project in the area of their specialization.

EDUC 6450 Advanced Course in Physical Education for the Disabled (Practicum)

Six credits. Twelve hours of lab time and three hours of seminar time per week. The course offers laboratory experiences and advanced practice in teaching physical education to children with disabilities. Emphasis will be placed on the areas of teaching motor skills, theories and through seminars or workshops for normal and disabled children. The course will be based on the mastery of execution criteria and the development of specific competencies.

EDUC 6500 Institute on Bilingualism in Puerto Rico

Six credits. Twenty-five hours a week.

Prerequisite: Baccalaureate Its sociological, cultural and historical background. Identity development in the New Rican child. Its linguistic characteristics. Strategies for teaching Spanish and English to these children. Evaluation of existing materials and preparation of new strategies for evaluation and research.

EDUC 6509: Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6516 Linguistics and the Teaching of English Readings to Spanish-Speaking Children

Three credits. Three hours of lecture a week.

Analysis of the elements of language; examination of teaching-learning in the development of (bi)literacy; oral and written expression in English with an emphasis on capitalizing on students' linguistic and cultural resources; Comparative linguistic analysis of Spanish and English. This course will be offered in face-to-face, hybrid and online modalities.

EDUC 6517 Principles of Curriculum

Three credits. Three hours of lecture a week.

Discussion of problems and issues related to curriculum development and improvement, study of curricular decisions, and the theoretical basis for making and testing such decisions. Particular consideration will be given to the need for changes in the curriculum and for research in this field.

EDUC 6518 Teaching Reading in Spanish to Bilingual and Bicultural Children Whose Language is English

Three credits. Three hours of lecture a week.

Analysis of teaching-learning problems in evolutionary reading, oral and written expression in Spanish, analysis of the elements of language and cognitive style, relationship of audio-linguistic perception with bilingualism and language development, comparative linguistic analysis of Spanish and English.

EDUC 6519 High School Curriculum

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6517; Discussion of the major developments in the curricular field from the period 1890 (the Committee of Ten) to the present. The conditions that affect curricular change will be analyzed and the "issues" in the construction of the curriculum will be examined, as well as the consideration of trends in curriculum design. Special attention will be given to the work done by recent committees to improve the curriculum

EDUC 6526 Strategies for Curriculum Change

Three credits. Three hours of lecture a week.

The contribution of research in the curricular field. The role of the educational leader in changing and improving the curriculum. The need for and use of the laboratory and research as a means to produce innovations related to curricular change.

EDUC 6528 Curricular Innovations in Mathematics Teaching

Three credits. Three hours of lecture a week.

Focus and appreciation of curricular innovations that have applications in the field of mathematics teaching. The student will have the opportunity to prepare and evaluate curricular designs.

EDUC 6530 Seminar: Workshop on the Production of New Materials for the Teaching of Mathematics

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005 or its equivalent Includes the creation and elaboration of appropriate models for the establishment of communication channels and techniques for individualization in mathematics teaching. It will be based on a systematic approach to instruction and students will develop projects applying the theory analyzed. Face-to-face, hybrid and online course.

EDUC 6535 The Elementary School Curriculum

Three credits. Six and a half hours of lecture per week.

Prerequisite: EDUC 6517 Study of curriculum development in elementary school, with emphasis on controversial issues and trends in their structuring. Analysis of the conditions influencing curricular change.

EDUC 6550 History of Pedagogical Ideas in Puerto Rico, Nineteenth and Twentieth Centuries

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005, or its equivalent Research and discussion of the pedagogical ideas that have guided the educational system in Puerto Rico from the nineteenth century to the present. It begins with an overview of the state of education in Latin America during the nineteenth century. This overview includes the analysis of philosophical and educational trends during the nineteenth century and compares them with the orientation of education in the Spanish colonial era. In the case of Puerto Rico, the contribution to history of the pedagogical ideas made by teachers and thinkers, such as Baldorioty, Tapia, Eugenio María de Hostos and others, stands out. The 20th century in Puerto Rico is analyzed in terms of the encounter of Anglo-Saxon culture with Hispanic and Puerto Rican culture. The course studies the management of the commissioners and secretaries of public instruction and rectors of the University of Puerto Rico, specifically highlighting the ideas that have served as educational policy in our education system during the present century.

EDUC 6551 Curriculum and Teaching Research Seminar

Three credits. Three hours of seminar per week.

Prerequisites: Have passed the subject exam.

Integrative experience through which the student demonstrates his/her research and creation competencies in Curriculum and Teaching. This experience revolves around the academic and professional interests of the student.

EDUC 6566 Diagnosis and Correction of Deficiencies in Mathematics at the Elementary Level

Three credits. Three hours of seminar per week.

Seminar aimed at the diagnosis and identification of deficiencies in mathematics at the elementary level, analysis of errors and the design of corrective teaching-learning strategies. It will include a hands-on laboratory with elementary school children.

EDUC 6569 Educational Innovations and Strategies for Their Implementation

Three credits. Three hours of lecture a week.

Study and analysis of educational innovations and strategies for their implementation in educational organizations. Course to be offered hybrid.

EDUC 6570 Design of Materials to Facilitate Teaching-Learning in Elementary School

Three credits. Three hours of workshop per week.

Prerequisite: Concentration in preschool education: EDUC 6115, Concentration in elementary education: EDUC 6535 Workshop for the preparation of teaching materials that facilitate the acquisition of concepts and the development of skills in the curricular areas.

Recent research on how children learn will be taken as a foundation.

EDUC 6576 Curriculum Development in its Relation to Learning within the Social, Cultural and Philosophical Framework

Six credits. Six hours of lecture per week.

In-depth study of the theory and design of the curriculum, considering the philosophical, social and cultural bases applied to our reality and educational needs. Special attention is given to the analysis and research of problems related to curriculum development. Provides experiences for the development of skills necessary for the preparation of individualized curriculum designs and materials.

EDUC 6588 Writing and Style in Technical Research Language

Three credits. Three hours of lecture a week.

The purpose of this course is to develop skills in the use of written language for research. It will emphasize the structure, tone and style of research papers with application to the preparation of dissertations, monographs, reports and theses.

EDUC 6596 Classroom Assessment

Three credits. Three hours of lecture a week.

Study of the theory and methodology of student learning assessment. Emphasis on the development, adaptation, and use of techniques and tools. It includes the analysis and interpretation of data aimed at making judgments about student achievement.

EDUC 6607 Education in Rural Areas

Three credits. Three hours of lecture a week.

This course is offered for school administrators, supervisors, guidance counselors, and teachers who work or aspire to work in rural areas. It tries to offer these personnel the opportunity to understand the concept of ruralia as an area that arises from an area of low population density, that lives mostly from agriculture, that remains attached to traditional cultural values and practices and for whom the rapid social changes of the modern era represent a challenge. The mission of the school is studied and its relationship with the organization and social processes of the rural population, with the social problems faced by this population, and with rural planning and development programs in Puerto Rico.

EDUC 6615 Vocational and Technical Education: Principles and Practice.

Three credits. Three hours of lecture a week.

Analysis of the development of vocational education with special attention to its projections and implications for preparing personnel for the world of work.

EDUC 6617 Curriculum Development in Vocational Education

Three credits. Three hours of lecture a week.

Analysis and application of curricular models for vocational education, including its parts. Special attention to competency-based curricular models.

EDUC 6618 Educational Leadership in Vocational Education

Three credits. Three hours of lecture a week.

Study and analysis of the theory and practice of vocational educational leadership. Examination of the specific problems faced by the vocational administrator in carrying out his duties in technical-vocational schools.

EDUC 6620 Fundamentals of Physical Education

Three credits. Three hours of lecture a week.

Analysis and study of the fundamentals of physical education and its relationship with the physical education program. Face-to-face, hybrid and online course.

EDUC 6625 History of Physical Education

Three credits. Three hours of lecture a week.

The role of physical education in people's lives throughout history to the present, with an emphasis on the events, movements, and people that have influenced the development of physical education. Greek and Roman concepts compared to the Renaissance and reformism. Important events in the history of Physical Education in Puerto Rico.

EDUC 6627 Stress Testing: Methods and Procedures

Three credits. Three hours of lecture a week.

The fundamentals of physiology, anatomy, pathophysiology, and human psychology necessary for the effective administration of stress tests are discussed. The following topics will be included: electrocardiography, equipment calibration, patient screening, protocol selection, recording and summarizing test data, basic cardiopulmonary resuscitation techniques, emergency management, and exercise prescription.

EDUC 6629 Organization and Administration of Secondary and Post-Secondary Physical Education and Sports Administration Programs

Three credits. Three hours of lecture a week.

The study of the nature and importance of the administration and organization of Physical Education programs – academic and extracurricular. Emphasis on the application of administrative theories, concepts, and skills in the development of Physical Education programs in the K-12 and postsecondary education system.

EDUC 6645 Principles of Instructional Design

Three credits. Three hours of lecture a week.

The essential characteristics that instruction must have for the teaching-learning process to be successful. External events of instruction and how they affect internal learning processes are analyzed, based on learning theories. Different models of systematic instructional design and their contribution to the improvement of learning and teaching processes sustained by research in this field are studied. Hybrid course.

EDUC 6646 Design, Implementation, and Evaluation of Educational Technology Programs

Three credits. Three hours of lecture a week.

Skills in designing, developing, implementing, and evaluating instructional technology programs at different levels and in different educational contexts. It analyzes social, human, philosophical and economic factors that affect the processes of integration of technology into the educational system. It includes the analysis of the components of the system such as use, evaluation and selection, cataloguing, production, maintenance and repair of equipment, based on the analysis of instruction and curriculum. It emphasizes new technologies such as computer-based teaching, as well as other teaching systems and their implications. Identify paradigms that can be used in program development and implementation.

EDUC 6647 Design and Production of Multisensory Materials

Three credits. Three hours of lecture a week.

This course develops skills and knowledge in the design and production of multisensory materials. It emphasizes the relationship that must exist between the objectives, the materials and the clientele for whom they are designed.

EDUC 6649 Contemporary Issues in Technology: Children's Television

Three credits. Three hours of lecture a week.

A review of the literature on the subject of children's television. It covers the history of children's television and discusses key issues such as stereotypes, violence, advertisements, consumerism, regulations and future trends. The symbolic message of some children's programs is analyzed in order to know its influence on the child's behavior.

EDUC 6650 Online Course Preparation

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

This course studies how to prepare courses that can be taken in whole or in part through the internet. Design and production aspects are examined using commercial computer programs. Face-to-face and hybrid course.

EDUC 6659 Telecommunication by Means of the Computer and its Application in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6055 Study of the general aspects of telecommunication through local networks and external networks (internet). Use of Internet resources. Discussion of educational projects and applications of telecommunication through the computer. Development of documents to be published on the *World Wide Web*. Analysis of ethical issues, trends and other issues of interest related to the use of computer communication.

EDUC 6660 Technical Analysis of Needs in Education

Three credits. Three hours of lecture a week.

Study of the process for the design and production of the technical needs analysis ("New Assessment") in the field of education.

EDUC 6666 The Study of Needs and Educational Planning

Three credits. Three hours of lecture a week.

Study of needs and their role in educational planning and their implications for the administrator. The student, as a future administrator, will relate to the types, models, strategies, techniques, instruments, tasks and activities of the needs study. You will integrate all of these experiences when planning and conducting a needs study in an educational institution.

EDUC 6668 Seminar on Planning Techniques

Three credits. Three hours of lecture a week.

A more in-depth and comprehensive study of educational planning techniques. It includes the description, advantages, disadvantages and guidelines for the implementation of these techniques. The course also provides experiences for the application of planning techniques to real situations within the context of education in Puerto Rico.

EDUC 6675 Instructional Message Design

Three credits. Three hours of lecture a week.

Prerequisite: EDFU 3001-3002 Study and analysis of instructional material design principles based on research in the areas of learning psychology and development of educational materials. Face-to-face and hybrid course.

EDUC 6900 Subject Exam

Credits: 0

EDUC 6905: Doctoral Qualifying Exam

Zero credits. Prerequisite: EDUC 6517, EDUC 6509, six credits in the subspecialty, three credits in Fundamentals of Education, three credits in the area of emphasis.

Passing the qualifying exam is required to continue in the continuing program from high school to doctoral (curriculum b) in curriculum and teaching. This program constitutes an

accelerated route to the PhD, which is offered to graduate students whose highest degree completion is baccalaureate. The objective is to qualify competencies in aspects of the curriculum; of the subspecialty; of fundamentals of research methods education; and the area of emphasis.

EDUC 6915 Production and Textualization of Knowledge

Three credits. Three hours of seminar per week.

Prerequisite: EDUC6588 The processes and resources of expository-argumentative writing are examined and applied in the final phase of the research text. The student analyzes and interprets their data in relation to writing strategies that transform and textualize knowledge. The coherence and cohesion of the text is sought after its final revision.

EDUC 6995 Independent Study

One to three credits. One to three hours contact.

Prerequisite: Teacher's approval.

It provides graduate students with individual, independent work in a particular area of interest or field of specialty, which will not duplicate the course offerings of the Department of Graduate Studies. Course activities could include cooperative projects, monographic papers, and others, the purpose of which is to make the curriculum more flexible and serve the interests of students. Requires teacher approval to enroll. This course can be taken up to a maximum of nine credits.

EDUC 6997 Curriculum Construction and Design

Two to three credits. Two to three hours of lecture and workshop per week.

Issues and problems in the design of teaching programs. Emphasis on the development of theories and research in the field of curriculum design. The course will consist of three main parts: 1. The rationale for curriculum design; 2. Curriculum design for the elementary level; 3. Curriculum design for the secondary level. This course will be taught by team.

EDUC 6998 Fieldwork for Curriculum Design and Instructional Strategies

From two to six credits. Two to six hours of lecture or laboratory time alternated per week.

The student will dedicate a portion of his/her weekly time to one or more educational centers, public or private school, other educational centers such as Head Start, colleges, universities, or others, with an emphasis on identifying and examining problems related to the curriculum. You will then work on new curriculum designs, instructional strategies, and strategies for curriculum change.

EDUC 8007 Teaching Points of Contention in Social Studies

Three credits. Three hours of lecture a week.

Analysis and discussion of pertinent issues in social studies for which there are opposing positions. It includes the study of strategies for thematic presentation in the classroom.

Face-to-face, hybrid and online course.

EDUC 8028 Curriculum Evaluation

Three credits. Three hours of lecture a week.

Advanced study and analysis of the principles that guide the different curricular evaluation strategies, both in the formative and summative aspects. The recommended methodology for curricular evaluation, the selection and application of curricular evaluation strategies and models.

EDUC 8029 Curriculum Construction and Design

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6517 Study and analysis of the principles that guide the elaboration and development of curricular designs and their application to our environment. Issues and problems in the design of teaching programs; Emphasis on the development of curriculum theory and research in the area.

EDUC 8030 Evaluation of Educational Programs

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6509 and EDUC 6390 OR equivalent Study of the foundations, models and methods for evaluating educational programs. Face-to-face, hybrid and online course.

EDUC 8031 Seminar: Paradigms, Changes and Trends in Educational Technology I

A credit. Three hours of seminars per week.

Reflective and critical study of paradigms of theoretical or practical interest in the field of educational technology. It emphasizes the study of the historical background, philosophy, paradigm, resources, theoretical frameworks, and research in the field of educational technology. This seminar is the first in a sequence of three seminars offered during consecutive semesters in order to provide the opportunity for further enrichment to the student as he or she progresses through his or her curriculum. Hybrid course.

EDUC 8032 Seminar: Paradigms, Changes and Trends in Educational Technology II

A credit. Three hours of seminar per week.

Reflective and critical study of changes in the professional practice of educational technology. It emphasizes the study of the role of professional associations in the development of educational technology and its ethical and legal implications for teacher teaching. This course is the second in a sequence of three seminars offered over three consecutive semesters in order to provide the opportunity for further enrichment to the student as they progress through their curriculum. Face-to-face and hybrid course.

EDUC 8033 Seminar: Paradigms, Changes and Trends in Educational Technology III

A credit. Three hours of seminar per week.

Reflective and critical study of future trends and projections of theoretical or practical interest in the field of educational technology. The seminar is part of a sequence of three seminars offered during consecutive semesters in order to provide the opportunity for further enrichment to the student as he or she progresses through his or her curriculum. Face-to-face and hybrid course.

EDUC 8045 Advanced Course on Teaching Reading

Three credits. Three hours of lecture a week.

Critical analysis of contemporary theories and practices, trends, problems and controversial issues in reading education from an interdisciplinary perspective. Research methods and techniques in cognitive-conceptual psychology, reading and comprehension processes in relation to curriculum design and teaching practices.

EDUC 8048 Theories of Curriculum Development

Three credits. Three hours of lecture a week.

Study and analysis of theories, models and research that guide curriculum development in various dimensions and from different points of view for the process of planning and organizing the curriculum at different levels of education.

EDUC 8049 Models for Teaching the Natural Sciences at the Secondary and Post-Secondary Levels

Three credits. Three hours of lecture a week.

Analysis of the most relevant theories of human knowledge that have implications for instruction in the branches of natural sciences; analysis of instructional events in terms of the promotion of learning; evaluation on the theoretical basis. Students are expected to learn how to describe theories, apply them in the design and development of instruction in traditional natural science subjects, and formulate models that support effective learning and the development of thinking skills.

EDUC 8050 Educational Implications of Science Theories

Three credits. Three hours of lecture a week.

The study of concepts about the nature and philosophy of science through the critical analysis of different theories of thought, knowledge, and scientific inquiry. The development and evolution of theories is traced in the social-historical context. In addition, the implications of the theories for science education are studied and research projects are conducted on problems pertinent to the topics of study.

EDUC 8057 Linguistic Theory and Didactics of Language

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the principal Application of linguistic theories to the teaching of Spanish as a mother tongue. The general principles of mother tongue acquisition are considered and attention will be focused on the lexical, morphosyntactic and discursive

aspects of the language and its incorporation into the curriculum.

EDUC 8059 Models for Teaching Mathematics at the Secondary and Postsecondary Level

Three credits. Three hours of lecture a week.

Study, analysis and evaluation of models used in the teaching of mathematics, with emphasis on the creation, preparation and adaptation of appropriate teaching material for the secondary and post-secondary levels.

EDUC 8060 Education as Science: A Critique

Three credits. Three hours of lecture a week.

It identifies the human image common to all the sciences of man. It identifies the generic properties of this image and examines its implications for education.

EDUC 8065 Research Techniques: Linguistics in Education and Curriculum

Three credits. Three hours of lecture a week.

Linguistic research, its current diversification and its applications to the pedagogical field. Emphasis on the Puerto Rican reality.

EDUC 8066 Public and Private Post-Secondary Educational Institutions in Puerto Rico

Three credits. Three hours of lecture a week.

The course covers the historical development of public and private post-secondary education institutions in Puerto Rico. It analyzes the various types of post-secondary institutions in Puerto Rico and compares them from the point of view of their philosophy, administrative structure, educational programs, student services, type of faculty, and costs. Finally, some of the central problems of these institutions are analyzed.

EDUC 8078 Telecommunication by Means of the Computer and its Application in Education

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

Prerequisites: EDUC 6055 or Equivalent.

Study of telecommunications through local and external networks. Evaluation of research, projects and educational applications of telecommunication through the microcomputer. Analysis of ethical-legal aspects, trends and other issues related to the use of communication through the computer. Face-to-face and hybrid course.

EDUC 8079 Technology, Technology, Society and Education

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

Study of the relationship between technology, society and education from a historical, philosophical and ethical perspective. Analysis of the impact of technology on education and its comparison with advances in other professional fields, as well as the role of research in the integration of technology in education. Face-to-face and hybrid course.

EDUC 8087 Physical Education Teacher Preparation Programs

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

Prerequisites: EDUC 6620 Study of the philosophical, theoretical, and curricular foundations of programs aimed at preparing teachers in physical education. Comprehensive design and evaluation of programs for teacher preparation in this area.

EDUC 8130 Models for Teaching, Monitoring, and Evaluating English as a Second Language Programs

Three credits. Three hours of lecture a week.

Analysis of topics and principles of first and second language teaching. Models of the methods and techniques used in teaching and supervising the curriculum development of English as a second language will be an integral part of the course. It will also include the analysis and design of assessment instruments in the teaching of English as a second language.

EDUC 8135 Seminar: Controversies in Education

Three credits. Three hours of lecture a week.

Analysis of controversial issues faced by administrators of public and private education systems in Puerto Rico and other countries of great educational development. Specific issues may vary from country to country and from time to time, but broad areas of knowledge will be identified and studied, such as the social function of education, education, the purposes of education and the educator and his or her role in the educational process, among others.

EDUC 8137 History Teaching as a Dynamic Process

Three credits. Three hours of lecture a week.

Study of the interrelation of current events and personalities that impact the development of humanity framed in a historical approach. Include characters as a historical modification variable. The methodology and strategies to carry out these events in an educational setting are discussed, analyzed and exemplified. The course requires constant and instant review. Face-to-face, hybrid and online course.

EDUC 8138 Educational Implications in Historiography

Three credits. Three hours of lecture a week.

Study and analysis of new trends in historiography and their interrelation with education. Emphasis will be given to the importance of this field of study for the different areas of social studies, especially history. Face-to-face, hybrid and online course.

EDUC 8139 Education, History and Culture About Africa and the Black

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

Educational processes related to African and black history and culture are studied, including their impact on our society. Analysis of African problems framed in different historical periods and the present evolution of the continent. The impact of African history on present-day Puerto Rico and the consideration of educational strategies to develop curricular material in the classroom.

EDUC 8140 Language Learning and Acquisition

Three credits. Three hours of lecture a week.

Intensive analysis and application of theories of learning and intellectual development proposed by Thorndike, Skinner, Piaget, Brunner, Bandura, and others to the teaching and learning of English as a second language. The principles underlying the acquisition and learning of a language will be an integral part of the course. Dependent and independent cognitive styles and their implications for second language learning will also be included.

EDUC 8145 Implications of Modern Linguistic Theories in the Teaching of English as a Second Language

Three credits. Three hours of lecture a week.

Study and analysis of linguistic schools, such as Traditional, Structuralism and Transformational. Basic considerations of traditional grammar will be included. The core of the course will be the analysis of the impact of these grammar schools on the teaching of English as a second language.

EDUC 8205 Teaching Models for the Analysis of Literary Text

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6280 or 8029 Study of the teaching models that support the traditional, structural, semiotic and sociological techniques of literary analysis. Relationship of experiences in the analysis of literary texts with curricular knowledge and experiences. Design of curricular materials that enable the development of literary analysis skills in secondary and post-secondary school.

EDUC 8206 Teaching Spanish in Puerto Rico

Three credits. Three hours of lecture a week.

Documentary research and analysis of the methods used in the teaching of Spanish in Puerto Rico at the elementary, secondary and post-secondary levels. Definition and analysis of problems related to the teaching of Spanish. Critical evaluation of theory and practice.

EDUC 8215 Technical Needs Analysis: Context Assessment

Three credits. Three hours of lecture a week.

Study of the process of identifying and analyzing needs in order to translate them into goals, objectives and plans through the analysis of gaps or gaps between the current state of a scenario, project or program and the desired state in the planning and design, implementation and evaluation of educational systems.

EDUC 8235 Seminar: Practices, Trends, and Controversial Issues in Mathematics Teaching

Three credits.

Study and critical analysis of special topics or specific problems, trends, controversial issues, research results, and contemporary theories and practices in the area of mathematics education with emphasis on the secondary and postsecondary levels. Face-to-face, hybrid and online course.

EDUC 8237 Seminar: Research Topics in Mathematics Education

Three credits. Three hours of seminar per week.

Critical analysis of research on the curriculum and teaching of mathematics and its educational implications.

EDUC 8245 Interdisciplinary Study of Educational Issues

A credit. An hour and a half of lecture a week.

Prerequisite: Permission of the teacher Interdisciplinary study of educational and cultural issues as a result of intellectual historical thought. It includes the critical analysis of theory and concepts, as well as the definition and identification of problems, alternatives and educational practices.

EDUC 8305 Sociology of Scientific and Technological Knowledge: Educational Consequences

Three credits. Three hours of lecture a week.

Students and teachers examine scientific and technological development from the perspective of the sociology of science and its social impact. Together, they analyze the socio-cultural foundation of the natural sciences, considering it as a substantive complement to the epistemology and history of science and its educational consequences. They also study controversies about the sociological meanings of natural science and technology, as well as teaching-learning models that allow the design of units to put the topics examined into educational practice.

EDUC 8308 African Presence in Puerto Rico: Impact on Education

Three credits. Three hours of lectures a week.

Study on the origin and development of the African presence in Puerto Rico. Its role and contributions to national identity, education, Puerto Rican customs and traditions, politics, economy, education, the media, visual arts, theater, music, dance, literature, and religion are critically analyzed. Analysis of the development of racial identity, "whitening", racism, oppression, exclusion and marginalization. The course is framed within educational research at all levels, in the analysis and awareness of African roots and racial issues that influence education in Puerto Rico.

EDUC 8309 Curricular Implications of African Geography

Three credits. Three hours of lecture a week.

Study of the geography of Africa and its curricular implications in order to compare the geographical reality of Africa and Puerto Rico. The student will conduct research and design relevant curricular strategies. The course will emphasize the use of the interdisciplinary method.

EDUC 8900 Candidacy Examination

Zero credits.

The exam is a requirement for students in the doctoral program. It is considered a full load.

EDUC 8981 Doctoral Dissertation

Six credits.

Prerequisite: Have passed the doctoral degree exam. Submit a certificate of completion of the information competency workshop granted by the Gerardo Selles Solá Library, and present evidence of having completed the online module of Responsible Conduct in Research of the CITI program, according to the requirements of Certification 029 of 2012-2013 of the UPRRP Administrative Board. Preparation of the doctoral dissertation, emphasizing the writing of the doctoral proposal and the study of the general procedures for writing a doctoral dissertation.

EDUC 8982 Continuation of Doctoral Dissertation

Zero credits. This course can be repeated three times.

Prerequisites: All courses leading to a degree in the specialty, have passed the degree exam.

Continuation of the preparation of the doctoral dissertation, emphasizing the implementation of the research and the writing of the dissertation.

EDUC 8995 Specialized Directed Study

One to three credits. One to three hours contact.

Prerequisite: Authorization from the Department.

Exploration of specialized topics or issues of particular interest to groups of graduate students under the direction of a faculty member or visiting professor. This course may be taken up to a maximum of nine credits. **Interim Dean:** Dr. Grace Marie Carro Nieves **Director of the**



Department: Dr. José Soto Sonera

Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi

Curriculum and Teaching Coordinator: Dr. Omar Hernandez **Phone &**

Extensions: (787) 764-0000, ext. 89205, 89196, 89252, 89253

Portal: <http://ege.uprrp.edu/>

DEGREE:

Doctorate in Education with a specialization in Curriculum and Teaching Plan C- (51 credits)

The Department of Graduate Studies of the Faculty of Education offers the Doctorate in Education with a specialty in Curriculum and Teaching in the following subspecialties:

Curriculum and Teaching in Science Education Curriculum and Teaching in Physical Education Curriculum and Teaching in Mathematics Education Curriculum and Teaching in Spanish Curriculum and Teaching in Teaching English as a Second Language Curriculum and Teaching in History and Social Studies Curriculum and Teaching in Learning Technology Curriculum and Teaching in Curriculum Theory, Design and Evaluation

TEACHERS:

Gladys R. Capella Noya, Ed.D. Harvard University, 1995. Professor. Power relations within learning environments; curriculum and culture; Democracy and Educational Practice.

Joseph F. Carroll Miranda, Ph.D. New Mexico State University, 2006. Assistant Professor. Technology adoption, learning technologies, critical pedagogy, emergent curriculum, youth culture, school effectiveness, computer science education, big data, emergent research methods.

Kevin S. Carroll, Ph.D. University of Arizona, 2009. Associate Professor. Language planning and policy, translanguaging, bilingual education, and *teachers of English to speakers of other languages*.

Omar A. Hernández Rodríguez, Ed.D. University of Puerto Rico, 2002. Associate Professor. Study of conceptual development in mathematics, cognitive and metacognitive processes in the solution of mathematical problems; Incorporation of new technologies in mathematics teaching and teacher professional development.

Edwin Martinez Hernandez, Ed.D. University of Puerto Rico, 2000. Associate Professor. Integration of technologies in instructional events and their effect on learning.

María Soledad Martínez Miranda, Ph.D. University of Wisconsin-Madison, 1991. Professor. Curricular Theory and Research; critical pedagogy; study of curriculum design; educational policies.

Rose Marie Santiago Villafañe, Ph.D. University of Murcia, 2005. Associate Professor. Sociolinguistic analysis of texts; the development of linguistic awareness; writing and reading as cognitive processes; curriculum design in the area of Spanish; students as language researchers; teachers' linguistic attitudes towards the language they teach; competency-based curriculum development.

José Soto Sonera, Ed.D. University of Puerto Rico, 2006. Associate Professor. Curriculum design and evaluation; science teaching and learning; cognitive processes and conceptual development from historical-cultural and anthropological perspectives.

María del Carmen Zorrilla Lassus, Ed.D. University of Puerto Rico, 1998. Professor. *Perception of geographical spaces, didactics of geography*; Neurodidactic considerations in geography through the use of emerging technologies.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

Doctorate in Education (Plan C):

Minimum requirements of the Doctoral Programme in Education (Plan C) for all subspecialties:

1. Bachelor's degree from an accredited university or its equivalent
2. Master's degree from an accredited university or its equivalent
3. Minimum academic index of 3.00 on a scale of 4.00 in Master's Degree

Additional requirements by subspecialty:

Science Education

1. Three (3) graduate credits in Curriculum
2. Three (3) graduate credits in Research
3. Three (3) graduate credits in Statistics
4. Twelve (12) credits at the master's level in the subspecialty

Physical education

1. Three (3) graduate credits in Curriculum
2. Three (3) graduate credits in Research
3. Six (6) credits at the master's level in Physical Education
4. Six (6) additional credits at the master's level in Physical Education or related areas

Mathematics Education

1. Three (3) graduate credits in Curriculum
2. Three (3) graduate credits in Research
3. Three (3) graduate credits in Statistics
4. Twelve (12) credits at the master's level in the subspecialty

Teaching English as a Second Language

1. Three (3) graduate credits in Curriculum
2. Three (3) graduate credits in Research
3. Twelve (12) master's level credits in Teaching English as a Second Language or related field.

Spanish

1. Three (3) graduate credits in Curriculum
2. Three (3) graduate credits in Research
3. Twelve (12) master's level credits in the subspecialty

History and Social Studies

1. Three (3) graduate credits in Curriculum
2. Three (3) graduate credits in Research
3. Twelve (12) master's level credits in the subspecialty

Learning Technology

1. Three (3) graduate credits in Curriculum
2. Three (3) graduate credits in Research
3. Competence in the management of Information and Communication Technologies (ICT).

4. Six (6) credits in learning technology or related areas

Curricular Theory, Design and Evaluation

1. Three (3) graduate credits in Curriculum
2. Three (3) graduate credits in Research

Documents and Other Requirements for the Application for Admission

1. Application for Admission to Graduate Studies through the "ApplyYourself" platform
2. Two official copies of Bachelor's and Master's credit transcripts
3. Two (2) letters of recommendation for Graduate Studies in electronic format or on paper
4. Interview
5. Proficiency in Spanish and English

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of no less than 3.00 in the courses that are considered for graduation.
4. Meet all of the above requirements within a period of seven (7) years from the date you begin your graduate studies. To this end, it is very important that the student prepares a study plan with his/her academic advisor.

PROGRAM OF STUDY:

The study program of the Doctorate in Education with a specialty in Curriculum and Teaching (Plan C) consists of courses in four (4) components: General Professional Area, Specialized Professional Area, Subspecialty Area, and Elective Courses Area. Students take courses in the subspecialty area of their interest. Subspecialty courses consist of required courses and directed electives. The table, a then describes the general study programme of the Doctorate - Plan C.

PLAN C

Distribution of Credits by Components/Areas of Study	Credits
Component: General Professional Area	
Fundamentals	6
Research	9
Component: Specialized Professional Area	
Core Curriculum	6
EDUC 8900: Candidacy Exam	0
Dissertation	6
Component: Subspecialty	
Required Courses	9
Elective-Directed Courses	9
Component: Elective Courses Area	
Free Electives	6
Total Credits	51

CORE CURRICULUM COURSES

- EDUC 8028 Curriculum Evaluation
- EDUC 8029 Curriculum Construction and Design

REQUIRED COURSES BY SUBSPECIALTY AREA

Required Courses for the Curriculum and Teaching in Science Education Subspecialty

- EDUC 8049 Models for the Teaching of Natural Sciences at the Secondary and Graduate Levels
- EDUC 8050 Educational Implications of Science Theories

Choose one (1) course from the following:

- EDUC 6127 Teaching-Learning of Science at the Elementary Level
- EDUC 8305 Sociology of Scientific and Technological Knowledge

Required Courses for the Subspecialty of Curriculum and Teaching in Physical Education

- EDUC 6620 Fundamentals of Physical Education
- EDUC 8185 Seminar on Emerging Issues and Controversial Issues in Physical Education
- EDUC 8405 Curriculum Design in Physical Education

Required Courses for the Curriculum and Teaching in Mathematics Education Subspecialty

- EDUC 8059 Model for the Teaching of Mathematics at the Secondary and Postsecondary Level
- EDUC 8235 Seminar: Practices, Trends, and Controversial Issues in Mathematics Teaching
- EDUC 8237 Research Topics in Mathematics Education

Required Courses for the Curriculum and Teaching in Teaching English as a Second Language Subspecialty

- EDUC 8130 Models of Teaching, Supervision and Evaluation in Programs of English as a Second Language
- EDUC 8140 Language Acquisition and Learning
- EDUC 8145 Implications for the Linguistics of English as a Second Language

Required Courses for the Spanish Curriculum and Teaching Subspecialty

- EDUC 8045 Advanced Course on Teaching Reading
- EDUC 8057 Linguistic Theory and Didactics of Language
- EDUC 8205 Teaching Methods for the Analysis of Literary Text

Required Courses for the Curriculum and Teaching Subspecialty in History and Social Studies

- EDUC 8007 Teaching Controversial Points in Social Studies
- EDUC 8137 The Teaching of History as a Dynamic Process

Choose one (1) course from the following:

- EDUC 8138 Educational Implications in Historiography
- EDUC 8139 Education, History and Culture about Africa and the Black
- EDUC 8308 African Presence in Puerto Rico: Impact on Education
- EDUC 8309 Curricular Implications of African Geography

Required Courses for the Learning Technology Curriculum and Teaching Subspecialty

- EDUC 8079 Technology, Technology, Society and Education
- EDUC 8031 Seminar: Paradigms, Changes and Trends in Educational Technology I

- EDUC 8032 Seminar: Paradigms, Changes and Trends in Educational Technology II
- EDUC 8033 Seminar: Paradigms, Changes and Trends in Educational Technology III
- EDUC 8078 Telecommunication by Computer and Its Application in Education

Required Courses for the Curriculum and Teaching Subspecialty in Curriculum Theory, Design, and Evaluation

- EDUC 8048 Theories of Curriculum Development

Choose two (2) courses from the following:

- EDUC 6730 Curriculum Design of Educational Programs
- EDUC 6735 Seminar on Practices, Trends and Controversial Issues in Curriculum Design
- EDUC 8160 Theory and Conceptualization of the Integrated Curriculum
- EDUC 8165 Integrated Curriculum Planning, Design, and Evaluation
- EDUC 8167 Curricular Changes and Educational Transformations
- EDUC 8169 Planning and Implementation of Curricular Projects
- EDUC 8170 Seminar: Curriculum Development

ELECTIVE-DIRECTED COURSES BY SUBSPECIALTY AREA

Elective-directed courses for the Curriculum and Teaching in Science Education Subspecialty

- Graduate courses in scientific disciplines

Elective-Directed Courses for the Curriculum and Teaching in Physical Education Subspecialty

- Graduate courses in Physical Education or related areas related to the student's academic interests and professional projections, with the prior approval of the academic advisor.

Elective-directed courses for the Curriculum and Teaching in Mathematics Education Subspecialty

- Nine credits in courses with MATE 6000 - MATE 8000 coding

Elective-directed courses for the subspecialty of Teaching English as a Second Language

- Graduate content courses (in the areas of linguistics or English literature). This can also be EING 6420, EING 6575 or EING 6577.

Elective-directed courses for the Curriculum and Teaching in Spanish Subspecialty

- Specialized graduate courses. They can be literary criticism, linguistics, and literature, or any that the academic advisor recommends in harmony with the area of research.

Elective-directed courses for the Curriculum and Teaching Subspecialty in History and Social Studies

- Graduate courses in history, social sciences offered in the Department of History, in the Faculty of Social Sciences

Elective-directed courses for the Curriculum and Teaching in Learning Technology Subspecialty

- Graduate courses in learning technology or related areas related to the student's academic interests and career prospects, with prior approval from the academic advisor.

Elective-directed courses for the Curriculum and Teaching Subspecialty in Curriculum Theory, Design and Evaluation

- Graduate courses defined according to the student's academic interests and professional projections, with the prior approval of the academic advisor.

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6008 The Written Language in Spanish: Teaching, Processes and Approaches

Three credits. Three hours of lecture a week.

Critical study of the acquisition and development of written language from a cognitive and social perspective. The relationships between writing and the subject (learner) are examined by analysing the implications of existing theories, curricular practices and methodological approaches. Based on the fieldwork carried out by the students, units will be designed that articulate the elements in the process of acquisition and development of writing skills.

EDUC6009 Writing Academic Articles

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

This course examines and incorporates the processes and resources of academic writing while the student writes an article in which they research and develop a topic in their

discipline. Research and writing strategies are applied and contextualized through the basic components of the academic discourse that seeks to be published: functionality, purpose, typologies, depth of content, and reader profile.

EDUC 6036 Methods for Adult Education

Three credits. Three hours of lecture a week.

Theories and methodologies that facilitate adult learning will be reviewed. Emphasis will be placed on the application of the systematic approach to teaching and on the competencies of the adult educator. Existing research will be used.

EDUC 6037 Trends in Adult Education

Three credits. Three hours of lecture a week.

Demographic, social and technological trends justifying adult education will be analysed; the scope and projection of the programmes and the factors that condition adult learning. Emphasis will be placed on existing statistics and research.

EDUC 6038 Teaching, Learning, and Creativity Through the Natural Sciences Curriculum

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

Critical analysis of perspectives and theoretical proposals that account for human learning and creativity in the natural sciences. The theoretical and empirical basis that sustains these perspectives is investigated, as well as the analysis of their implications for the teaching of natural sciences at the various school levels. Analysis of the factors that promote learning and creativity-genetics, socio-cultural environment, ideologies and misconceptions, among others, and how to address them through the educational process. Evaluation of educational programs and teaching models according to theoretical frameworks.

EDUC 6045 The Curriculum in Adult Education

Three credits. Three hours of lecture a week.

Critical examination of problems inherent in the curriculum in adult education programmes. It includes an analysis and evaluation of the literature, research, and studies related to curriculum design for adults. Study of the bases of the curriculum for adults and analysis of the basic factors for its planning. Study and discussion of factors that affect adults and alternatives for the current curriculum. Visits to schools where adult education programmes exist.

EDUC 6046 The Role of the Adult Educator

Three credits. Three hours of lecture a week.

Analysis of the role of the adult educator. Emphasis will be placed on the competencies that adult educators should possess and on the application of these competencies in accordance with the role they play. Existing research will be used.

EDUC 6047 In-Service Education in Educational Settings: Theory, Research, and Action

Three credits. Three hours of lecture and fifteen hours of supervised practice per week. Critical analysis of the in-service education process to facilitate the professional development of teaching staff in educational settings. Development of conceptual, technical and social competencies to facilitate the design, implementation, evaluation and review of in-service education programmes in various educational settings.

EDUC 6048 Didactic Reflection: Theory, Research and Action

Three credits. An hour and a half of lecture and an hour and a half of discussion per week. Conceptualization, demonstration, and practice of options and processes aimed at providing support and facilitating educators' reflection on their practice, based on the analysis of research, controversies, challenges, and possibilities.

EDUC 6055 Microcomputers in Education

Three credits. Three hours of lecture a week. Introduction to the use of the microcomputer in education. Develop attitudes and skills in the appropriate use of the microcomputer (literacy). Participants are expected to use it in their professional roles as teachers, supervisors, administrators, counselors, and researchers.

EDUC 6058 Calculators and Computers in the Teaching of Mathematics at the Intermediate and Higher Levels

Three credits. Three hours of lecture a week. Applications of pocket calculators and microcomputers in mathematics teaching. The instrumentation of scientific calculators and microcomputers of several classics of mathematics. Problems of statistics and probability and the Monte Carlo method are discussed.

EDUC 6059 The Design of Computerized Instruction

Three credits. Three hours of discussion a week. Discussion of models and techniques for the design, development, and evaluation of computerized instruction. Analysis of the different computerized systems for the development of educational application programs. Discussion of the research literature relevant to the design of educational computer programs. Design of a computer program for educational purposes.

EDUC 6061 Development of Computerized Instruction

Three credits. Three hours of discussion a week.
Prerequisites: EDUC 6055, Practice in the Development of Computerized Instruction.
Discussion of the different types of systems for the development of computerized instruction and other resources such as software for the creation of graphics, animations, and films, and equipment such as digitizers, CD-ROMs, and video machines. Development of the programming skills necessary for the development of educational programs.

EDUC 6063 Design and Production of Computerized Multimedia Presentations

Three credits. Two hours of discussion and two hours of lab time per week. Prerequisites: EDUC 6055, 6059 Analysis of the process of planning and production of computerized multimedia presentations. Emphasis on the relationship that must exist between the objectives, the materials and the clientele for whom they are designed, as well as the learning theories relevant to them. Discussion of the literature on the design and development of graphic material. Analysis of the characteristics of the equipment and programs available for the development of multimedia applications. Development of an application that makes use of peripherals such as videodisc machines, CD-ROMs and compact discs, among others.

EDUC 6068 Discipline Models and Strategies in Teaching Processes

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permit Study and analysis of discipline models and strategies in the teaching-learning process.

EDUC 6069 Alternative Conceptions in Chemistry: Educational Implications and Didactic Approaches

Three credits. Three hours of lecture, discussion and seminar per week. Prerequisites: QUIM 3001-3002 Study of the mental formulation of students' alternative conceptions in chemistry. The contributions of different philosophical, psychological, and neurobiological currents to the understanding of the mental processes that guide the construction of scientific knowledge are identified, seminal studies are analyzed to explore the alternative conceptions that students have about scientific concepts, and the methodologies used for these purposes are examined, among others: heat, temperature, the participatory nature of matter, covalent bonding, chemical kinetics, chemical equilibrium, and electrochemistry. Ways to explore the initial conceptions that students bring into the classroom and methodologies that contribute to conceptual change are addressed based on the analysis of the relevant research literature.

EDUC 6085 Computer Programming in the BASIC Language for Teaching

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6056 Knowledge of the BASIC programming language is expanded from a pedagogical point of view so that participants can create computerized educational programs in which they make use of the capabilities of microcomputers to facilitate the teaching-learning process.

EDUC 6105 Study, Analysis and Design of the Curricular Content of School Theatre

Three credits. Three hours of lecture a week.

Study and analysis of different processes, methods and techniques inherent to drama as an academic discipline, with emphasis on theatrical animation. Design of the curricular content of school theatre programmes.

EDUC 6106 Supervision of School Theatre Teaching

Three credits. Three hours of lecture a week.

Processes, methods and techniques for teaching theatre from an educational perspective by supervision.

EDUC 6127 Teaching-Learning Science at the Elementary Level: Theory and Practice

Three credits. Three hours of lecture a week.

Seminar aimed at the analysis and evaluation of research on the development of knowledge and learning in the natural sciences. Application of relevant theoretical frameworks in instructional design and effective teaching of the elementary learner based on the educational objectives of science at the island and school district levels. It requires clinical, laboratory, and field experiences.

**EDUC 6128 Elementary School Mathematics Teaching and Learning: Theory
y Practice**

Three credits. Three hours of seminar per week.

Analysis and evaluation of research around the construction of knowledge and learning of mathematics in elementary school. Research and application of relevant theoretical frameworks to the design and effective teaching of elementary students, based on educational objectives and standards of the discipline.

**EDUC 6135 Development of Scientific and Logical-Mathematical Thinking in Early
Childhood**

Three credits. Three hours of lecture a week.

Analysis of the sequence of cognitive development that results in the construction of scientific and logical-mathematical knowledge. Relevant research studies and their application in the classroom. Clinical field and laboratory experiences will be planned to observe, analyze and carry out educational activities aimed at the development of logical-mathematical and scientific thinking in educational contexts at home and at school.

**EDUC 6140 The Role of Puerto Rican Historical and Cultural Experience in
Bilingual and Bicultural Education**

Three credits. Three hours of lecture a week.

Course designed to provide knowledge about the cultural and historical heritage of the Puerto Rican child; the role of bilingual, bicultural children in the learning process of the bilingual and bicultural child and in the development of the curriculum-relationship of this heritage in transitional schools; Field trips may be included, role of ethnic studies. This course will be offered in face-to-face, hybrid and online modalities.

EDUC 6155 Modern Trends in Social Studies at the Elementary Level

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6095, Literature Analysis and Recent Research on Social Studies at the Elementary Level.

EDUC 6280 Study, Analysis and Design of Curricular Content in the Area of Spanish

Three credits. Three hours of lecture a week.

Study and analysis of different ways of designing curriculum in the area of Spanish. Discussion of new twists and approaches that enable the student to present programmatic alternatives to the Spanish curriculum based on observation, analysis, and evaluation of a curriculum with an emphasis on systematic analysis of instruction. Students will visit classrooms and educational projects. They will present innovative projects.

EDUC 6285 Pragmatic Teaching of Spanish Grammar

Three credits. Three hours of lecture a week.

The development of the skills of identifying, producing and teaching the grammatical elements and structures of the Spanish language through the use of a modern methodology of a pragmatic nature. To achieve these objectives, various practical exercises inspired by a pragmatic synthesis of various grammatical theories are offered.

EDUC 6290 Innovative Approaches to Social Studies Teaching

Three credits. Three hours of lecture a week.

Analysis of innovations related to teaching and strategies in history and other fields of social studies. Emphasis on laboratory experience where the theories being discussed are exemplified, the use of educational technology, and analysis of relevant Puerto Rican literature. Face-to-face, hybrid and online course.

EDUC 6300 Programmatic Trends in Social Studies Curriculum Teaching

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005 or its equivalent Study and analysis of the different ways of designing curriculum in history and other areas of social studies with emphasis on the most recent approaches. Basic elements such as philosophy, courses, programs, experiences, orientation processes, student activities, etc., and the procedure for updating them will be analyzed. It will be conducted in the form of a seminar and the student will produce a work in which the concepts studied will be applied. Face-to-face, hybrid and online course.

EDUC 6356 Literary Genres: Innovative Approaches to Teaching Them

Three credits. Three hours of lecture a week.

Analysis of research on trends and approaches in literary production and its pedagogical perspective. Application of new trends for text analysis. The development and implementation of innovative teaching strategies and techniques will be encouraged. Clinical experiences. Preparation of daily plans, testing of materials, demonstration classes.

EDUC 6370 Seminar on Strategies and Resources in High School Science Teaching

Three credits. Three hours of lecture a week.

Study of selected topics with reference to the teaching of science in secondary school. The following aspects are considered, among others: technical strategies and resources for the teaching of science, assessment of learning in this area, and problems related to the adoption and teaching of new resources.

EDUC 6380 Workshop for Curriculum Design

Three credits. Three hours of lecture or three hours of lab time per week Prerequisite:

EDUC 6501-6502, and 6517 Emphasis on curriculum design and production of instructional materials in a variety of disciplines based on systematic analysis of instruction. Curricular material such as guides, manuals, textbooks, and audiovisual and programmed materials are analyzed, selected, and evaluated. General and small group sessions are conducted by a disciplined team to explore and discuss issues and problems in the curriculum.

Innovations in education, active learning modules, extended school year patterns, scheduled instruction, audio-visual materials, behavioral goals as they relate to the curriculum receive due attention.

EDUC 6395 Workshop on Computerized Data Processing in Education - Part I

Three credits. An hour and a half of lectures and three hours of laboratory work a week.

Prerequisite: EDUC 6509 and EDUC 6390, The course is conducted in the form of a workshop, divided into three parts or units of study in which the content, organization and integral operation of the programs that make up the *Statistical Package for the Social Sciences (SPSS)* are discussed. It considers in its initial part, by way of introduction and review, the process of scientific research; the levels of measurement, the appropriate statistical techniques, the conceptualization of a research problem, the collection and coding of data.

EDUC 6430 Educational Technology in Curriculum Design

Three credits. Three hours of lecture a week.

She studies educational technology and the role it plays in curriculum design.

Develop skills in technological resources, their use, evaluation, selection and systematic application to the curriculum. It will provide the opportunity for students to apply this knowledge in the design and production of a project in the area of their specialization.

EDUC 6450 Advanced Course in Physical Education for the Disabled (Practicum)

Six credits. Twelve hours of lab time and three hours of seminar time per week. The course offers laboratory experiences and advanced practice in teaching physical education to children with disabilities. Emphasis will be placed on the areas of teaching motor skills, theories and through seminars or workshops for normal and disabled children. The course will be based on the mastery of execution criteria and the development of specific competencies.

EDUC 6500 Institute on Bilingualism in Puerto Rico

Six credits. Twenty-five hours a week.

Prerequisite: Baccalaureate Its sociological, cultural and historical background. Identity development in the New Rican child. Its linguistic characteristics. Strategies for teaching Spanish and English to these children. Evaluation of existing materials and preparation of new strategies for evaluation and research.

EDUC 6509: Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6516 Linguistics and the Teaching of English Readings to Spanish-Speaking Children

Three credits. Three hours of lecture a week.

Analysis of the elements of language; examination of teaching-learning in the development of (bi)literacy; oral and written expression in English with an emphasis on capitalizing on students' linguistic and cultural resources; Comparative linguistic analysis of Spanish and English. This course will be offered in face-to-face, hybrid and online modalities.

EDUC 6517 Principles of Curriculum

Three credits. Three hours of lecture a week.

Discussion of problems and issues related to curriculum development and improvement, study of curricular decisions, and the theoretical basis for making and testing such decisions. Particular consideration will be given to the need for changes in the curriculum and for research in this field.

EDUC 6518 Teaching Reading in Spanish to Bilingual and Bicultural Children Whose Language is English

Three credits. Three hours of lecture a week.

Analysis of teaching-learning problems in evolutionary reading, oral and written expression in Spanish, analysis of the elements of language and cognitive style, relationship of audio-linguistic perception with bilingualism and language development, comparative linguistic analysis of Spanish and English.

EDUC 6519 High School Curriculum

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6517; Discussion of the major developments in the curricular field from the period 1890 (the Committee of Ten) to the present. The conditions that affect curricular change will be analyzed and the "issues" in the construction of the curriculum will be examined, as well as the consideration of trends in curriculum design. Special attention will be given to the work done by recent committees to improve the curriculum.

EDUC 6526 Strategies for Curriculum Change

Three credits. Three hours of lecture a week.

The contribution of research in the curricular field. The role of the educational leader in changing and improving the curriculum. The need for and use of the laboratory and research as a means to produce innovations related to curricular change.

EDUC 6528 Curricular Innovations in Mathematics Teaching

Three credits. Three hours of lecture a week.

Focus and appreciation of curricular innovations that have applications in the field of mathematics teaching. The student will have the opportunity to prepare and evaluate curricular designs.

EDUC 6530 Seminar: Workshop on the Production of New Materials for the Teaching of Mathematics

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005 or its equivalent Includes the creation and elaboration of appropriate models for the establishment of communication channels and techniques for individualization in mathematics teaching. It will be based on a systematic approach to instruction and students will develop projects applying the theory analyzed. Face-to-face, hybrid and online course.

EDUC 6535 The Elementary School Curriculum

Three credits. Six and a half hours of lecture per week.

Prerequisite: EDUC 6517 Study of curriculum development in elementary school, with emphasis on controversial issues and trends in their structuring. Analysis of the conditions influencing curricular change.

EDUC 6550 History of Pedagogical Ideas in Puerto Rico, Nineteenth and Twentieth Centuries

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005, or its equivalent Research and discussion of the pedagogical ideas that have guided the educational system in Puerto Rico from the nineteenth century to the present. It begins with an overview of the state of education in Latin America during the nineteenth century. This overview includes the analysis of philosophical and educational trends during the nineteenth century and compares them with the orientation of education in the Spanish colonial era. In the case of Puerto Rico, the contribution to history of the pedagogical ideas made by teachers and thinkers, such as Baldorioty, Tapia, Eugenio María de Hostos and others, stands out. The 20th century in Puerto Rico is analyzed in terms of the encounter of Anglo-Saxon culture with Hispanic and Puerto Rican culture. The course studies the management of the commissioners and secretaries of public instruction and rectors of the University of Puerto Rico, specifically the ideas that have served as educational policy in our education system during the present century.

EDUC 6551 Curriculum and Teaching Research Seminar

Three credits. Three hours of seminar per week.

Prerequisites: Have passed the subject exam.

Integrative experience through which the student demonstrates his/her research and creation competencies in Curriculum and Teaching. This experience revolves around the academic and professional interests of the student.

EDUC 6566 Diagnosis and Correction of Deficiencies in Mathematics at the Elementary Level

Three credits. Three hours of seminar per week.

Seminar aimed at the diagnosis and identification of deficiencies in mathematics at the elementary level, analysis of errors and the design of corrective teaching-learning strategies. It will include a hands-on laboratory with elementary school children.

EDUC 6569 Educational Innovations and Strategies for Their Implementation

Three credits. Three hours of lecture a week.

Study and analysis of educational innovations and strategies for their implementation in educational organizations. Course to be offered hybrid.

EDUC 6570 Design of Materials to Facilitate Teaching-Learning in Elementary School

Three credits. Three hours of workshop per week.

Prerequisite: Concentration in preschool education: EDUC 6115, Concentration in elementary education: EDUC 6535 Workshop for the preparation of teaching materials that facilitate the acquisition of concepts and the development of skills in the curricular areas. Recent research on how children learn will be taken as a foundation.

EDUC 6576 Curriculum Development in its Relation to Learning within the Social, Cultural and Philosophical Framework

Six credits. Six hours of lecture per week.

In-depth study of the theory and design of the curriculum, considering the philosophical, social and cultural bases applied to our reality and educational needs. Special attention is given to the analysis and research of problems related to curriculum development. Provides experiences for the development of skills necessary for the preparation of individualized curriculum designs and materials.

EDUC 6588 Writing and Style in Technical Research Language

Three credits. Three hours of lecture a week.

The purpose of this course is to develop skills in the use of written language for research. It will emphasize the structure, tone and style of research papers with application to the preparation of dissertations, monographs, reports and theses.

EDUC 6596 Classroom Assessment

Three credits. Three hours of lecture a week.

Study of the theory and methodology of student learning assessment. Emphasis on the development, adaptation, and use of techniques and tools. It includes the analysis and interpretation of data aimed at making judgments about student achievement.

EDUC 6607 Education in Rural Areas

Three credits. Three hours of lecture a week.

This course is offered for school administrators, supervisors, guidance counselors, and teachers who work or aspire to work in rural areas. It tries to offer these personnel the opportunity to understand the concept of ruralia as an area that arises from an area of low population density, that lives mostly from agriculture, that remains attached to traditional cultural values and practices and for whom the rapid social changes of the modern era represent a challenge. The mission of the school is studied and its relationship with the organization and social processes of the rural population, with the social problems faced by this population, and with rural planning and development programs in Puerto Rico.

EDUC 6615 Vocational and Technical Education: Principles and Practice.

Three credits. Three hours of lecture a week.

Analysis of the development of vocational education with special attention to its projections and implications for preparing personnel for the world of work.

EDUC 6617 Curriculum Development in Vocational Education

Three credits. Three hours of lecture a week.

Analysis and application of curricular models for vocational education, including its parts. Special attention to competency-based curricular models.

EDUC 6618 Educational Leadership in Vocational Education

Three credits. Three hours of lecture a week.

Study and analysis of the theory and practice of vocational educational leadership. Examination of the specific problems faced by the vocational administrator in carrying out his duties in technical-vocational schools.

EDUC 6620 Fundamentals of Physical Education

Three credits. Three hours of lecture a week.

Analysis and study of the fundamentals of physical education and its relationship with the physical education program. Face-to-face, hybrid and online course.

EDUC 6625 History of Physical Education

Three credits. Three hours of lecture a week.

The role of physical education in people's lives throughout history to the present, with an emphasis on the events, movements, and people that have influenced the development of physical education. Greek and Roman concepts compared to the Renaissance and reformism. Important events in the history of Physical Education in Puerto Rico.

EDUC 6627 Stress Testing: Methods and Procedures

Three credits. Three hours of lecture a week.

The fundamentals of physiology, anatomy, pathophysiology, and human psychology necessary for the effective administration of stress tests are discussed. The following topics will be included: electrocardiography, equipment calibration, patient screening, protocol selection, recording and summarizing test data, basic cardiopulmonary resuscitation techniques, emergency management, and exercise prescription.

EDUC 6629 Organization and Administration of Secondary and Post-Secondary Physical Education and Sports Administration Programs

Three credits. Three hours of lecture a week.

The study of the nature and importance of the administration and organization of Physical Education programs – academic and extracurricular. Emphasis on the application of administrative theories, concepts, and skills in the development of Physical Education programs in the K-12 and postsecondary education system.

EDUC 6645 Principles of Instructional Design

Three credits. Three hours of lecture a week.

The essential characteristics that instruction must have for the teaching-learning process to be successful. External events of instruction and how they affect internal learning processes are analyzed, based on learning theories. Different models of systematic instructional design and their contribution to the improvement of learning and teaching processes sustained by research in this field are studied. Hybrid Course.

EDUC 6646 Design, Implementation, and Evaluation of Educational Technology Programs

Three credits. Three hours of lecture a week.

Skills in designing, developing, implementing, and evaluating instructional technology programs at different levels and in different educational contexts. It analyzes social, human, philosophical and economic factors that affect the processes of integration of technology into the educational system. It includes the analysis of the components of the system such as use, evaluation and selection, cataloguing, production, maintenance and repair of equipment, based on the analysis of instruction and curriculum. It emphasizes new technologies such as computer-based teaching, as well as other teaching systems and their implications. Identify paradigms that can be used in program development and implementation.

EDUC 6647 Design and Production of Multisensory Materials

Three credits. Three hours of lecture a week.

This course develops skills and knowledge in the design and production of multisensory materials. It emphasizes the relationship that must exist between the objectives, the materials and the clientele for whom they are designed.

EDUC 6649 Contemporary Issues in Technology: Children's Television

Three credits. Three hours of lecture a week.

A review of the literature on the subject of children's television. It covers the history of children's television and discusses key issues such as stereotypes, violence, advertisements, consumerism, regulations and future trends. The symbolic message of some children's programs is analyzed in order to know its influence on the child's behavior.

EDUC 6650 Online Course Preparation

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

This course studies how to prepare courses that can be taken in whole or in part through the internet. Design and production aspects are examined using commercial computer programs. Face-to-face and hybrid course.

EDUC 6659 Telecommunication by Means of the Computer and its Application in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6055 Study of the general aspects of telecommunication through local networks and external networks (internet). Use of Internet resources. Discussion of educational projects and applications of telecommunication through the computer.

Development of documents to be published on the *World Wide Web*. Analysis of ethical issues, trends and other issues of interest related to the use of computer communication.

EDUC 6660 Technical Analysis of Needs in Education

Three credits. Three hours of lecture a week.

Study of the process for the design and production of the technical needs analysis ("New Assessment") in the field of education.

EDUC 6666 The Study of Needs and Educational Planning

Three credits. Three hours of lecture a week.

Study of needs and their role in educational planning and their implications for the administrator. The student, as a future administrator, will relate to the types, models, strategies, techniques, instruments, tasks and activities of the needs study. You will integrate all of these experiences when planning and conducting a needs study in an educational institution.

EDUC 6668 Seminar on Planning Techniques

Three credits. Three hours of lecture a week.

A more in-depth and comprehensive study of educational planning techniques. It includes the description, advantages, disadvantages and guidelines for the implementation of these techniques. The course also provides experiences for the application of planning techniques to real situations within the context of education in Puerto Rico.

EDUC 6675 Instructional Message Design

Three credits. Three hours of lecture a week.

Prerequisite: EDFU 3001-3002 Study and analysis of instructional material design principles based on research in the areas of learning psychology and development of educational materials. Face-to-face and hybrid course.

EDUC 6900 Subject Exam

Credits: 0

EDUC 6915 Production and Textualization of Knowledge

Three credits. Three hours of seminar per week.

Prerequisite: EDUC6588 The processes and resources of expository-argumentative writing are examined and applied in the final phase of the research text. The student analyzes and interprets their data in relation to writing strategies that transform and textualize knowledge. The coherence and cohesion of the text is sought after its final revision.

EDUC 6995 Independent Study

One to three credits. One to three hours contact.

Prerequisite: Teacher's approval.

It provides graduate students with individual, independent work in a particular area of interest or field of specialty, which will not duplicate the course offerings of the Department of Graduate Studies. Course activities could include cooperative projects, monographic papers, and others, the purpose of which is to make the curriculum more flexible and serve the interests of students. Requires teacher approval to enroll. This course can be taken up to a maximum of nine credits.

EDUC 6997 Curriculum Construction and Design

Two to three credits. Two to three hours of lecture and workshop per week.

Issues and problems in the design of teaching programs. Emphasis on the development of theories and research in the field of curriculum design. The course will consist of three main parts: 1. The rationale for curriculum design; 2. Curriculum design for the elementary level; 3. Curriculum design for the secondary level. This course will be taught by team.

EDUC 6998 Fieldwork for Curriculum Design and Instructional Strategies

From two to six credits. Two to six hours of lecture or laboratory time alternated per week.

The student will dedicate a portion of his/her weekly time to one or more educational centers, public or private school, other educational centers such as Head Start, colleges, universities, or others, with an emphasis on identifying and examining problems related to the curriculum. You will then work on new curriculum designs, instructional strategies, and strategies for curriculum change.

EDUC 8007 Teaching Points of Contention in Social Studies

Three credits. Three hours of lecture a week.

Analysis and discussion of pertinent issues in social studies for which there are opposing positions. It includes the study of strategies for thematic presentation in the classroom.

Face-to-face, hybrid and online course.

EDUC 8028 Curriculum Evaluation

Three credits. Three hours of lecture a week.

Advanced study and analysis of the principles that guide the different curricular evaluation strategies, both in the formative and summative aspects. The recommended methodology for curricular evaluation, the selection and application of curricular evaluation strategies and models.

EDUC 8029 Curriculum Construction and Design

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6517 Study and analysis of the principles that guide the elaboration and development of curricular designs and their application to our environment. Issues and problems in the design of teaching programs; Emphasis on the development of curriculum theory and research in the area.

EDUC 8030 Evaluation of Educational Programs

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6509 and EDUC 6390 OR equivalent Study of the foundations, models, and methods for evaluating educational programs and systems that operate continuously. Face-to-face, hybrid and online course.

EDUC 8031 Seminar: Paradigms, Changes and Trends in Educational Technology I

A credit. Three hours of seminars per week.

Reflective and critical study of paradigms of theoretical or practical interest in the field of educational technology. It emphasizes the study of the historical background, philosophy, paradigm, resources, theoretical frameworks, and research in the field of educational technology. This seminar is the first in a sequence of three seminars offered during consecutive semesters in order to provide the opportunity for further enrichment to the student

as you progress through your curriculum. Hybrid course.

EDUC 8032 Seminar: Paradigms, Changes and Trends in Educational Technology II

A credit. Three hours of seminar per week.

Reflective and critical study of changes in the professional practice of educational technology. It emphasizes the study of the role of professional associations in the development of educational technology and its ethical and legal implications for teacher teaching. This course is the second in a sequence of three seminars offered over three consecutive semesters in order to provide the opportunity for further enrichment to the student as they progress through their curriculum. Face-to-face and hybrid course.

EDUC 8033 Seminar: Paradigms, Changes and Trends in Educational Technology III

A credit. Three hours of seminar per week.

Reflective and critical study of future trends and projections of theoretical or practical interest in the field of educational technology. The seminar is part of a sequence of three seminars offered during consecutive semesters in order to provide the opportunity for further enrichment to the student as he or she progresses through his or her curriculum. Face-to-face and hybrid course.

EDUC 8045 Advanced Course on Teaching Reading

Three credits. Three hours of lecture a week.

Critical analysis of contemporary theories and practices, trends, problems and controversial issues in reading education from an interdisciplinary perspective. Research methods and techniques in cognitive-conceptual psychology, reading and comprehension processes in relation to curriculum design and teaching practices.

EDUC 8048 Theories of Curriculum Development

Three credits. Three hours of lecture a week.

Study and analysis of theories, models and research that guide curriculum development in various dimensions and from different points of view for the process of planning and organizing the curriculum at different levels of education.

EDUC 8049 Models for Teaching the Natural Sciences at the Secondary and Post-Secondary Levels

Three credits. Three hours of lecture a week.

Analysis of the most relevant theories of human knowledge that have implications for instruction in the branches of natural sciences; analysis of instructional events in terms of the promotion of learning; evaluation on the theoretical basis. Students are expected to learn how to describe theories, apply them in the design and development of instruction in traditional natural science subjects, and formulate models that support effective learning and the development of thinking skills.

EDUC 8050 Educational Implications of Science Theories

Three credits. Three hours of lecture a week.

The study of concepts about the nature and philosophy of science through the critical analysis of different theories of thought, knowledge, and scientific inquiry. The development and evolution of theories is traced in the social-historical context. In addition, the implications of the theories for science education are studied and research projects are conducted on problems pertinent to the topics of study.

EDUC 8057 Linguistic Theory and Didactics of Language

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the principal Application of linguistic theories to the teaching of Spanish as a mother tongue. The general principles of mother tongue acquisition are considered and attention will be focused on the lexical, morphosyntactic and discursive aspects of the language and its incorporation into the curriculum.

EDUC 8059 Models for Teaching Mathematics at the Secondary and Postsecondary Level

Three credits. Three hours of lecture a week.

Study, analysis and evaluation of models used in the teaching of mathematics, with emphasis on the creation, preparation and adaptation of appropriate teaching material for the secondary and post-secondary levels.

EDUC 8060 Education as Science: A Critique

Three credits. Three hours of lecture a week.

It identifies the human image common to all the sciences of man. It identifies the generic properties of this image and examines its implications for education.

EDUC 8065 Research Techniques: Linguistics in Education and Curriculum

Three credits. Three hours of lecture a week.

Linguistic research, its current diversification and its applications to the pedagogical field. Emphasis on the Puerto Rican reality.

EDUC 8066 Public and Private Post-Secondary Educational Institutions in Puerto Rico

Three credits. Three hours of lecture a week.

The course covers the historical development of public and private post-secondary education institutions in Puerto Rico. It analyzes the various types of post-secondary institutions in Puerto Rico and compares them from the point of view of their philosophy, administrative structure, educational programs, student services, type of faculty, and costs. Finally, some of the central problems of these institutions are analyzed.

EDUC 8078 Telecommunication by Means of the Computer and its Application in Education

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

Prerequisites: EDUC 6055 or Equivalent.

Study of telecommunications through local and external networks. Evaluation of research, projects and educational applications of telecommunication through the microcomputer. Analysis of ethical-legal aspects, trends and other issues related to the use of communication through the computer. Face-to-face and hybrid course.

EDUC 8079 Technology, Technology, Society and Education

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

Study of the relationship between technology, society and education from a historical, philosophical and ethical perspective. Analysis of the impact of technology on education and its comparison with advances in other professional fields, as well as the role of research in the integration of technology in education. Face-to-face and hybrid course.

EDUC 8087 Physical Education Teacher Preparation Programs

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

Prerequisites: EDUC 6620 Study of the philosophical, theoretical, and curricular foundations of programs aimed at preparing teachers in physical education. Comprehensive design and evaluation of programs for teacher preparation in this area.

EDUC 8130 Models for Teaching, Monitoring, and Evaluating English as a Second Language Programs

Three credits. Three hours of lecture a week.

Analysis of topics and principles of first and second language teaching. Models of the methods and techniques used in teaching and supervising the curriculum development of English as a second language will be an integral part of the course. It will also include the analysis and design of assessment instruments in the teaching of English as a second language.

EDUC 8135 Seminar: Controversies in Education

Three credits. Three hours of lecture a week.

Analysis of controversial issues faced by administrators of public and private education systems in Puerto Rico and other countries of great educational development. Specific issues may vary from country to country and from time to time, but broad areas of knowledge will be identified and studied, such as the social function of education, education, the purposes of education and the educator and his or her role in the educational process, among others.

EDUC 8137 History Teaching as a Dynamic Process

Three credits. Three hours of lecture a week.

Study of the interrelation of current events and personalities that impact the development of humanity framed in a historical approach. Include characters as a historical modification variable. The methodology and strategies to carry out these events in an educational setting are discussed, analyzed and exemplified. The course requires constant and instant review. Face-to-face, hybrid and online course.

EDUC 8138 Educational Implications in Historiography

Three credits. Three hours of lecture a week.

Study and analysis of new trends in historiography and their interrelation with education. Emphasis will be given to the importance of this field of study for the different areas of social studies, especially history. Face-to-face, hybrid and online course.

EDUC 8139 Education, History and Culture About Africa and the Black

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

Educational processes related to African and black history and culture are studied, including their impact on our society. Analysis of African problems framed in different historical periods and the present evolution of the continent. The impact of African history on present-day Puerto Rico and the consideration of educational strategies to develop curricular material in the classroom.

EDUC 8140 Language Learning and Acquisition

Three credits. Three hours of lecture a week.

Intensive analysis and application of theories of learning and intellectual development proposed by Thorndike, Skinner, Piaget, Brunner, Bandura, and others to the teaching and learning of English as a second language. The principles underlying the acquisition and learning of a language will be an integral part of the course. Dependent and independent cognitive styles and their implications for second language learning will also be included.

EDUC 8145 Implications of Modern Linguistic Theories in the Teaching of English as a Second Language

Three credits. Three hours of lecture a week.

Study and analysis of linguistic schools, such as Traditional, Structuralism and Transformational. Basic considerations of traditional grammar will be included. The core of the course will be the analysis of the impact of these grammar schools on the teaching of English as a second language.

EDUC 8205 Teaching Models for the Analysis of Literary Text

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6280 or 8029 Study of the teaching models that support the traditional, structural, semiotic and sociological techniques of literary analysis. Relationship of experiences in the analysis of literary texts with curricular knowledge and experiences. Design of curricular materials that enable the development of literary analysis skills in secondary and post-secondary school.

EDUC 8206 Teaching Spanish in Puerto Rico

Three credits. Three hours of lecture a week.

Documentary research and analysis of the methods used in the teaching of Spanish in Puerto Rico at the elementary, secondary and post-secondary levels. Definition and analysis of problems related to the teaching of Spanish. Critical evaluation of theory and practice.

EDUC 8215 Technical Needs Analysis: Context Assessment

Three credits. Three hours of lecture a week.

Study of the process of identifying and analyzing needs in order to translate them into goals, objectives and plans through the analysis of gaps or gaps between the current state of a

scenario, project or program and the desired state in the planning and design, implementation and evaluation of educational systems.

EDUC 8235 Seminar: Practices, Trends, and Controversial Issues in Mathematics Teaching

Three credits.

Study and critical analysis of special topics or specific problems, trends, controversial issues, research results, and contemporary theories and practices in the area of mathematics education with emphasis on the secondary and postsecondary levels. Face-to-face, hybrid and online course.

EDUC 8237 Seminar: Research Topics in Mathematics Education

Three credits. Three hours of seminar per week.

Critical analysis of research on the curriculum and teaching of mathematics and its educational implications.

EDUC 8245 Interdisciplinary Study of Educational Issues

A credit. An hour and a half of lecture a week.

Prerequisite: Permission of the teacher Interdisciplinary study of educational and cultural issues as a result of intellectual historical thought. It includes the critical analysis of theory and concepts, as well as the definition and identification of problems, alternatives and educational practices.

EDUC 8305 Sociology of Scientific and Technological Knowledge: Educational Consequences

Three credits. Three hours of lecture a week.

Students and teachers examine scientific and technological development from the perspective of the sociology of science and its social impact. Together, they analyze the socio-cultural foundation of the natural sciences, considering it as a substantive complement to the epistemology and history of science and its educational consequences. They also study controversies about the sociological meanings of natural science and technology, as well as teaching-learning models that allow the design of units to put the topics examined into educational practice.

EDUC 8308 African Presence in Puerto Rico: Impact on Education

Three credits. Three hours of lectures a week.

Study on the origin and development of the African presence in Puerto Rico. Its role and contributions to national identity, education, Puerto Rican customs and traditions, politics, economy, education, the media, visual arts, theater, music, dance, literature, and religion are critically analyzed. Analysis of the development of racial identity, "whitening", racism, oppression, exclusion and marginalization. The course is framed within educational research at all levels, in the analysis and awareness of African roots and racial issues that influence education in Puerto Rico.

EDUC 8309 Curricular Implications of African Geography

Three credits. Three hours of lecture a week.

Study of the geography of Africa and its curricular implications in order to compare the geographical reality of Africa and Puerto Rico. The student will conduct research and design relevant curricular strategies. The course will emphasize the use of the interdisciplinary method.

EDUC 8900 Candidacy Examination

Zero credits.

The exam is a requirement for students in the doctoral program. It is considered a full load.

EDUC 8981 Doctoral Dissertation

Six credits.

Prerequisite: Have passed the doctoral degree exam. Submit a certificate of completion of the information competency workshop granted by the Gerardo Selles Solá Library, and present evidence of having completed the online module of Responsible Conduct in Research of the CITI program, according to the requirements of Certification 029 of 2012-2013 of the UPRRP Administrative Board. Preparation of the doctoral dissertation, emphasizing the writing of the doctoral proposal and the study of the general procedures for writing a doctoral dissertation.

EDUC 8982 Continuation of Doctoral Dissertation

Zero credits. This course can be repeated three times.

Prerequisites: All courses leading to a degree in the specialty, have passed the degree exam.

Continuation of the preparation of the doctoral dissertation, emphasizing the implementation of the research and the writing of the dissertation.

EDUC 8995 Specialized Directed Study

One to three credits. One to three hours contact.

Prerequisite: Authorization from the Department.

Exploration of specialized topics or issues of particular interest to groups of graduate students under the direction of a faculty member or visiting professor. This course may be taken up to a maximum of nine credits. **Interim Dean**: Dr. Grace Marie Carro Nieves **Director of the**



Department: Dr. José Soto Sonera

Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi

Coordinator of the Children's Education Area: Dr. Lisandra Pedraza Burgos

Phone and extensions: (787) 764-0000, ext. 89205, 89196, 89203, 89253

Portal: https://ege.uprrp.edu/?page_id=361

DEGREE:

Master's Degree in Education with a specialty in Reading, Writing, and Children's Literature

TEACHERS:

Lisandra Pedraza Burgos, PhD, The Ohio State University, 2006, Assistant Professor.

Early education; multicultural education; Childhood, Family and Community Alliance; qualitative research; spirituality of children.

Ruth J. Sáez Vega, PhD, University of Arizona, 1996, Professor.

Reading as a process; early literacy; writing development; children's literature; teacher transformation; Qualitative research: ethnographic, case studies, teacher-researcher.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Recognized and accredited baccalaureate degree.
2. Minimum grade point average of 3.00.
3. Two letters of recommendation.
4. Interview with professors from the Department of Graduate Studies of the Faculty of Education - Children's Education Area.

Documents and Other Requirements for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format.
2. Two (2) official copies of Baccalaureate credit transcripts.
3. Essay on experiences and academic background and their relationship to career goals (500-1500 words).

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of no less than 3.00 in the courses that are considered for graduation.

PROGRAM OF STUDY:

Program Components 30 credits	
Components	Credits
Core Courses	9
Specialty Courses	15
Elective Courses	3
Degree Exam	0
Integrative Seminar	3

Core Courses - 9 credits		
Codification	Course Title	Credits
EDUC 6096	Theories of Childhood Development: Educational Implications	3
EDUC 6098	A Socio-Cultural Perspective of Children in Puerto Rico	3
EDUC 6509	Research Methods in Education	3

Specialty Courses -15 credits		
Codification	Course Title	Credits
EDUC 6116	Theoretical Perspectives on Reading and Writing	3
EDUC 6147	Reading and Writing Assessment	3
EDUC 6202	Pedagogical Practices for the Training of Readers and Writers	3
EDUC 6559	Children's Literature	3
EDUC 6201	Trends, Themes and Controversies in Contemporary Children's Literature	3

Electives - 3 credits		
Codification	Course Title	Credits
EDUC XXXX	Elective Course	3

Degree Exam		
Codification	Course Title	Credits
EDUC 6900	Degree Exam	0

Integrative Seminar		
Codification	Course Title	Credits
EDUC 6203	Integrative Seminar on Reading, Writing and Children's Literature	3

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6096 Theories of Child Development: Educational Implications

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

Analysis of theories on childhood development under the Psychoanalytic, Maturational-Normative, Behaviorist-Environmental and Cognitive-Interactionist paradigms. It will delve into topics such as cognition, learning, socio-moral cognition, metacognition, memory, and personality development, among others. Analysis of local and international research relevant to the paradigms studied, and their implications for educational practice with children aged 0-15 years in Puerto Rico. Field experiences with children in school and home environments.

EDUC 6098 A Socio-Cultural Perspective of Children in Puerto Rico

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

Study and analysis of childhood in Puerto Rico, highlighting the social and cultural factors that affect and determine behavior and learning styles in this period of life. Particular attention is paid to culture as an agent of social adaptation, to the social group as a socializing agent, to the implications and consequences derived from the expectations that the social group places on the child and their effects on the teaching-learning situation.

EDUC 6509 Research Methods in Education

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6116 Theoretical Perspectives on Reading and Writing.

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

Conceptualization of reading and writing from various theoretical perspectives throughout history. Study of theories and research in the field of reading and writing. Analysis of legislation that affects public policy regarding the teaching of reading and writing. Emphasis on theoretical-practical coherence.

EDUC 6147 Diagnosis and Evaluation in Reading

Three credits. Three hours of lecture a week.

Studies of the evaluation of the learning processes of reading and writing. Analysis of evaluative practices of literacy processes and the theories and perspectives that underlie them. Study, development and application of different evaluation instruments and methods. Emphasis on valuing the learner as a reader and writer and documenting their learning process.

EDUC 6202 Pedagogical Practices for the Training of Readers and Writers

Three credits. Three hours of seminar per week.

Course focused on the form of readers and writers at the elementary level (k-6). The conceptualization of reading and writing from the perspective of the reader and writer and their training is studied, as well as the analysis of theoretical perspectives and their methodological implications. Includes

in addition, the study of curricular modalities and methodological strategies for the teaching of reading and writing. Emphasis is placed on pedagogical practices and the design of environments that privilege the training of readers and writers.

EDUC 6559 Children's Literature

Three credits. Three hours of lecture a week.

Study of literature aimed at children. Analysis of the history of universal and Puerto Rican children's literature, from its origins to the album book. Emphasis on the genres of children's literature and its creators— authors and illustrators— from Puerto Rico. Ibero-America and the rest of the world. Addressing the role of children's literature in the classroom and other environments and programs to promote reading.

EDUC 6201 Trends, Issues and Controversies in Contemporary Children's Literature

Three credits. Three hours of lecture a week.

Study of the trend in contemporary children's literature. Examination of the diversity of topics addressed in the works that have been published in recent decades. Analysis of the controversies that occur in the field of children's literature. Emphasis on trends, issues and controversies that are more deeply rooted at the time of offering the course.

EDUC 6900 Subject Exam

Zero credits

EDUC 6203 Integrative Seminar in Early Childhood Education

Three credits. Three hours of seminar per week.

Prerequisites: EDUC 6115, EDUC 6117, EDUC 6118, EDUC 6125, EDUC 6145, EDUC 6900 This seminar addresses the synthesis and critical appraisal of specialized topics in preschool education, in order to apply the knowledge and research skills inherent to these, developed in the courses of the master's degree in preschool education. Each student carries out a project that responds to their research and creative interest. It implies a contribution to the field of preschool education in the context of the preschool, school, university or the community in general. This seminar represents the final assessment point of the master's program and is equivalent to the full academic load for the student.

OTHER COURSE DESCRIPTIONS:**EDUC 6097 Preschool Educational Programs**

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

Review of the various contemporary pre-school education programmes and modalities. Application of the conceptual model of programmatic and curricular analysis to identify objectives, select educational experiences and evaluative means to different programs. Analysis of research and legislation related to preschool programs in Puerto Rico and the United States. Field experiences will be conducted.

EDUC 6099 Modern Trends in Elementary School Teaching

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6096 Identifying, analyzing, and evaluating recent trends affecting the teaching-learning process in elementary school and their implications for Puerto Rican elementary school.

EDUC 6115 Preschool Curriculum Design

Three credits. Three hours of discussion a week.

Discussion of appropriate curricular aspects and practices in preschool education. Analysis of research related to the organization and sequence of activities used in the preparation of innovative curricula and instructional practices. Clinical experience will be provided.

EDUC 6117 Learning and Assessment in Preschool Childhood

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6096 Analysis of cognitive and learning theories pertinent to preschool education and their implications for educational practices and assessment with infants, nursery and preschoolers. Study of relevant published research. Conducting observations and field experiences with infants, nursery and preschoolers to examine the learning and

assessment processes at these ages. Analysis of educational interaction strategies that promote cognitive development, learning and its assessment in the preschool years.

EDUC 6118 Preschool Literature and Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6115 and EDUC 6096 The role of children's literature in the total development of preschool children. The relationship of literature with reading and writing skills, morality and the development of values, the various curricular areas, and the classification of non-sexist social roles associated with gender will be analyzed. Recent research related to children's literature will be discussed.

EDUC 6119 Pictorial Expression in Early Childhood

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6096 Seminar aimed at the analysis of literature related to the development of pictorial expression at an early age. Study of the relationship between pictorial development, the development of symbolic function and creativity in the Puerto Rican educational context. Analysis of the impact of the various artistic/plastic media on pictorial expression from childhood to 8 years of age. It incorporates experiences with children and workshops in the visual arts.

EDUC 6125 Play in Preschool Development and Education

Three credits. Three hours of seminar per week.

Seminar for research and analysis of literature on the role of play in integral development in childhood. Emphasis on the importance of play as an interaction strategy in preschool education. Varied field experiences on play with children will be carried out.

EDUC 6126 Observation and Research Techniques with Children

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6095, and EDUC 6096 Study of observation as a technique for research and evaluation of children at the preschool and elementary level. Emphasis is placed on how to conceptualize, plan, perform, interpret, and make effective use of the results of systematic observations.

EDUC 6145 Reading and Writing as Developmental Processes in Preschool

Three credits. Three hours of lecture a week.

Seminar on the relationship between oral language development and the development of reading and writing skills from various theoretical perspectives. Review of recent research to look at how children are introduced to reading and writing before they reach first grade. Field observations and laboratory experiences will be carried out around these development processes in the Puerto Rican context.

EDUC 6204 Integrated Seminar on Reading, Writing and Children's Literature

Three credits. Three hours of seminar per week.

Prerequisites: EDUC 6116, EDUC 6147, EDUC 6146, EDUC 6560, EDUC 6559 and EDUC 6900 This seminar addresses the synthesis and critical appraisal of specialized topics in reading, writing and children's literature, in order to apply the knowledge and research and creation skills inherent to these, developed in the master's courses in reading. Writing and children's literature. Each student carries out a project that responds to their research and creative interest or is inserted into an existing project in the master's program. It implies a contribution to the field of reading, writing and children's literature in the classroom, at school, in the community or at the university. This seminar represents the final assessment point of the master's program and is equivalent to the full academic load for the student.

EDUC 6440 Psycholinguistics and Psychology of Reading

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate In this interdisciplinary course in which the modern contributions made in the fields of psychology and linguistics are studied, considered both disciplines in an overall vision and in their reciprocal relations. Experimental research and expert experience will be used as part of the content. The psychological and grammatical aspects of the spoken language will be examined, among others

and written. The efficient application of fundamental psychological and linguistic principles to the teaching and learning of reading in school, and contemporary life, will be determined. The importance of the efficient use of spoken and written language for education and culture will be highlighted, with special emphasis on the skills and values of printed matter. The development of thought and language in the child will be studied and some modern theories about this phenomenon will be discussed, from the point of view of psycholinguistics and reading.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6595 Language Development and the Reading Process

Three credits. One hour of lecture and three hours of laboratory time per week.

This course aims to provide teachers, especially at the primary levels, with a better understanding of the nature of the process of language development and the teaching of reading. The relationship between the process of language acquisition and learning to read and success in school learning is considered. The course will revolve around areas such as: A) the role of parents and teachers in children's language development and learning to read, B) selection and diagnostic procedures to identify those children who deviate from normal language and reading development, C) compensatory training methods to be used in the classroom.

EDUC 6809 Authentic Assessment as a Tool for Learning

Three credits. Two hours of lecture and two hours of lab per week. Review of evaluation as a data collection procedure for various purposes. It emphasizes the need to know the philosophical perspectives, tools, techniques and procedures available to make authentic assessments that improve teaching and learning in the context of regular and special education.

EDUC 6830 The Design of Specialized Reading Curricula

Three credits. Three hours of seminar per week.

Research on specialized reading curriculum designs. Study of programs, their conceptual bases and methodological approaches. Analysis of the reading curriculum for exceptional, bilingual children with different linguistic and cultural backgrounds. Systematic observation of one of these groups. Production and evaluation of a unit and other curricular materials.

EDUC 6995 Independent Study

One to three credits. One to three hours contact.

Prerequisite: Teacher's approval.

It provides graduate students with individual, independent work in a particular area of interest or field of specialty, which does not duplicate the course offerings of the Department of Graduate Studies. Course activities could include cooperative projects, monographic papers, and others, the purpose of which is to make the curriculum more flexible and serve the interests of students. Requires teacher approval to enroll. This course can be taken up to a maximum of nine credits.

EDUC 8025 Ethical Perspective of Childhood and Education

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

Analysis of childhood from constructivist and naturalistic perspectives. Exploration of the issue of children's rights in modernity based on the naturalism of J.J. Rousseau and the ethics of E. Kant. Analysis of the applicability of the concepts of freedom, democracy, authority and punishment in the light of the effectiveness of Socratic ethical precepts.



Interim Dean: Dr. Grace Marie Carro Nieves

Director of the Department: Dr. José Soto Sonera

Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi

Coordinator of the Children's Education Area: Dr. Lisandra Pedraza Burgos

Phone and extensions: (787) 764-0000, ext. 89205, 89196, 89203, 89253

Portal: <http://ege.uprrp.edu/>

DEGREE: Master's Degree in Education with a specialty in Early Childhood Education

TEACHERS:

Lisandra Pedraza Burgos , PhD, The Ohio State University, 2006, Assistant Professor. Early education; multicultural education; Childhood, Family and Community Alliance; qualitative research; spirituality of children.

Ruth J. Sáez Vega, PhD, University of Arizona, 1996, Professor.

Reading as a process; early literacy; writing development; children's literature; teacher transformation; Qualitative research: ethnographic, case studies, teacher-researcher.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Recognized and accredited baccalaureate degree.
2. Minimum grade point average of 3.00.
3. Two letters of recommendation.
4. Interview with teachers from the DEG - Children's Education area.

Documents and other requirements for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format.
2. Two (2) official copies of Baccalaureate credit transcripts.
3. Essay on experiences and academic background and their relationship to career goals (500-1500 words).

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of no less than 3.00 in the courses that are considered for graduation.

PROGRAM OF STUDY:

Program Requirements	
Credits	Curriculum Components 30 credits
9 credits	Core Courses
15 credits	Specialty Courses
3 credits	Elective Courses
0 credits	Degree Exam
3 credits	Integrative Seminar on Preschool Education

Core Courses - 9 credits		
EDUC 6096	Theories of Childhood Development: Educational Implications	3
EDUC 6098	A Socio-Cultural Perspective of Children in Puerto Rico	3
EDUC 6509	Research Methods in Education	3

Specialty Courses -15 credits		
EDUC 6115	Preschool Curriculum Design	3
EDUC 6118	Preschool Literature and Education	3
EDUC 6117	Preschool Learning and Assessment	3
EDUC 6125	Play in Preschool Development and Education	3
EDUC 6145	Reading and Writing as Developmental Processes in Preschool	3

Electives - 3 credits		
EDUC XXXX	Elective Course	3

Subject Exam		
EDUC 6900	Subject Exam	0

Thesis or project - 6 credits		
EDUC 6203	Integrative Seminar on Preschool Education	3

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6096 Theories of Child Development: Educational Implications

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

Analysis of theories on childhood development under the Psychoanalytic, Maturational-Normative, Behaviorist-Environmental and Cognitive-Interactionist paradigms. It will delve into topics such as cognition, learning, socio-moral cognition, metacognition, memory, and personality development, among others. Analysis of local and international research relevant to the paradigms studied, and their implications for educational practice with children aged 0-15 years in Puerto Rico. Field experiences with children in school and home environments.

EDUC 6098 A Socio-Cultural Perspective of Children in Puerto Rico

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

Study and analysis of childhood in Puerto Rico, highlighting the social and cultural factors that affect and determine behavior and learning styles in this period of life. Particular attention is paid to culture as an agent of social adaptation, to the social group as a socializing agent, to the implications and consequences derived from the expectations that the social group places on the child and their effects on the teaching-learning situation.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6115 Preschool Curriculum Design

Three credits. Three hours of discussion a week.

Discussion of appropriate curricular aspects and practices in preschool education. Analysis of research related to the organization and sequence of activities used in the preparation of innovative curricula and instructional practices. Clinical experience will be provided.

EDUC 6118 Preschool Literature and Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6115 AND EDUC 6096 The Role of Children's Literature in the Total Development of Preschool Childhood. The relationship of literature with reading and writing skills, morality and the development of values, the various curricular areas, and the classification of non-sexist social roles associated with gender will be analyzed. Recent research related to children's literature will be discussed.

EDUC 6117 Learning and Assessment in Preschool Childhood

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6096 Analysis of cognitive and learning theories pertinent to preschool education and their implications for educational practices and assessment with infants, nursery and preschoolers. Study of relevant published research. Conducting observations and field experiences with infants, nursery and preschoolers to examine the learning and assessment processes at these ages. Analysis of educational interaction strategies that promote cognitive development, learning and its assessment in the preschool years.

EDUC 6125 Play in Preschool Development and Education

Three credits. Three hours of seminar per week.

Seminar for research and analysis of literature on the role of play in integral development in childhood. Emphasis on the importance of play as an interaction strategy in preschool education. Varied field experiences on play with children will be carried out.

EDUC 6145 Reading and Writing as Developmental Processes in Preschool

Three credits. Three hours of lecture a week.

Seminar on the relationship between oral language development and the development of reading and writing skills from various theoretical perspectives. Review of recent research to look at how children are introduced to reading and writing before they reach first grade. Field observations and laboratory experiences will be carried out around these development processes in the Puerto Rican context.

EDUC 6900 Subject Exam

Zero credits.

EDUC 6203 Integrative Seminar in Early Childhood Education

Three credits. Three hours of seminar per week.

Prerequisites: EDUC 6115, EDUC 6117, EDUC 6118, EDUC 6125, EDUC 6145, EDUC 6900 This seminar addresses the synthesis and critical appraisal of specialized topics in preschool education, in order to apply the knowledge and research skills inherent to these, developed in the courses of the master's degree in preschool education. Each student carries out a project that responds to their research and creative interest. It implies a

contribution to the field of preschool education in the context of the preschool, school, university or the community in general. This seminar
It represents the final assessment point of the master's program and is equivalent to the full academic load for the student.

OTHER COURSE DESCRIPTIONS:

EDUC 6097 Preschool Educational Programs

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

Review of the various contemporary pre-school education programmes and modalities. Application of the conceptual model of programmatic and curricular analysis to identify objectives, select educational experiences and evaluative means to different programs. Analysis of research and legislation related to preschool programs in Puerto Rico and the United States. Field experiences will be conducted.

EDUC 6099 Modern Trends in Elementary School Teaching

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6096 Identifying, analyzing, and evaluating recent trends affecting the teaching-learning process in elementary school and their implications for Puerto Rican elementary school.

EDUC 6116 Reading from a Psycholinguistic Perspective

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

Reading as a psycholinguistic process. Discussion of research and its application to reading pedagogy.

EDUC 6119 Pictorial Expression in Early Childhood

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6096 Seminar aimed at the analysis of literature related to the development of pictorial expression at an early age. Study of the relationship between pictorial development, the development of symbolic function and creativity in the Puerto Rican educational context. Analysis of the impact of the various artistic/plastic media on pictorial expression from childhood to 8 years of age. It incorporates experiences with children and workshops in the visual arts.

EDUC 6126 Observation and Research Techniques with Children

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6095, and EDUC 6096 Study of observation as a technique for research and evaluation of children at the preschool and elementary level. Emphasis is placed on how to conceptualize, plan, perform, interpret, and make effective use of the results of systematic observations.

EDUC 6147 Diagnosis and Evaluation in Reading

Three credits. Three hours of lecture a week.

Studies of the evaluation of the learning processes of reading and writing. Analysis of evaluative practices of literacy processes and the theories and perspectives that underlie them. Study, development and application of different evaluation instruments and methods. Emphasis on valuing the learner as a reader and writer and documenting their learning process.

EDUC 6201 Trends, Issues and Controversies in Contemporary Children's Literature

Three credits. Three hours of lecture a week.

Study of the trend in contemporary children's literature. Examination of the diversity of topics addressed in the works that have been published in recent decades. Analysis of the controversies that occur in the field of children's literature. Emphasis on trends, issues and controversies that are more deeply rooted at the time of offering the course.

EDUC 6202 Pedagogical Practices for the Training of Readers and Writers

Three credits. Three hours of seminar per week.

Course focused on the form of readers and writers at the elementary level (k-6). The conceptualization of reading and writing from the perspective of the reader and writer and their training is studied, as well as the analysis of theoretical perspectives and their methodological implications. It also includes the study of curricular modalities and methodological strategies for the teaching of reading and writing. Emphasis is placed on pedagogical practices and the design of environments that privilege the training of readers and writers.

EDUC 6204 Integrated Seminar on Reading, Writing and Children's Literature

Three credits. Three hours of seminar per week.

Prerequisites: EDUC 6116, EDUC 6147, EDUC 6146, EDUC 6560, EDUC 6559 and EDUC 6900

This seminar addresses the synthesis and critical appraisal of specialized topics in reading, writing and children's literature, in order to apply the knowledge and research and creation skills inherent to these, developed in the master's courses in reading, writing and children's literature. Each student carries out a project that responds to their research and creative interest or is inserted into an existing project in the master's program. It implies a contribution to the field of reading, writing and children's literature in the classroom, at school, in the community or at the university. This seminar represents the final assessment point of the master's program and is equivalent to the full academic load for the student.

EDUC 6440 Psycholinguistics and Psychology of Reading

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate In this interdisciplinary course in which the modern contributions made in the fields of psychology and linguistics are studied, considered both disciplines in an overall vision and in their reciprocal relations. Experimental research and expert experience will be used as part of the content. The psychological and grammatical

aspects of the spoken language will be examined, among others and written. The efficient application of fundamental psychological and linguistic principles to the teaching and learning of reading in school, and contemporary life, will be determined. The importance of the efficient use of spoken and written language for education and culture will be highlighted, with special emphasis on the skills and values of printed matter. The development of thought and language in the child will be studied and some modern theories about this phenomenon will be discussed, from the point of view of psycholinguistics and reading.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6559 Children's Literature

Three credits. Three hours of lecture a week.

Study of literature aimed at children. Analysis of the history of universal and Puerto Rican children's literature, from its origins to the album book. Emphasis on the genres of children's literature and its creators— authors and illustrators— from Puerto Rico. Ibero-America and the rest of the world. Addressing the role of children's literature in the classroom and other environments and programs to promote reading.

EDUC 6595 Language Development and the Reading Process

Three credits. One hour of lecture and three hours of laboratory time per week.

This course aims to provide teachers, especially at the primary levels, with a better understanding of the nature of the process of language development and the teaching of reading. The relationship between the process of language acquisition and learning to read and success in school learning is considered. The course will revolve around areas such as: A) the role of parents and teachers in children's language development and learning to read, B) selection and diagnostic procedures to identify those children who deviate from normal language and reading development, C) compensatory training methods to be used in the classroom.

EDUC 6809 Authentic Assessment as a Tool for Learning

Three credits. Two hours of lecture and two hours of lab per week. Review of evaluation as a data collection procedure for various purposes. It emphasizes the need to know the philosophical perspectives, tools, techniques and procedures available to make authentic assessments that improve teaching and learning in the context of regular and special education.

EDUC 6830 The Design of Specialized Reading Curricula

Three credits. Three hours of seminar per week.

Research on specialized reading curriculum designs. Study of programs, their conceptual bases and methodological approaches. Analysis of the reading curriculum for exceptional, bilingual children with different linguistic and cultural backgrounds. Systematic observation of one of these groups. Production and evaluation of a unit and other curricular materials.

EDUC 6995 Independent Study

One to three credits. One to three hours contact.

Prerequisite: Teacher's approval.

It provides graduate students with individual, independent work in a particular area of interest or field of specialty, which does not duplicate the course offerings of the Department of Graduate Studies. Course activities could include cooperative projects, monographic papers, and others, the purpose of which is to make the curriculum more flexible and serve the interests of students. Requires teacher approval to enroll. This course can be taken up to a maximum of nine credits.

EDUC 8025 Ethical Perspective of Childhood and Education

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

Analysis of childhood from constructivist and naturalistic perspectives. Exploration of the issue of children's rights in modernity based on the naturalism of J.J. Rousseau and the ethics of E. Kant. Analysis of the applicability of the concepts of freedom, democracy, authority and punishment in the light of the effectiveness of Socratic ethical precepts.



Interim Dean: Dr. Grace Marie Carro Nieves
Director of the Department: Dr. José Soto Sonera
Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi
Special and Differentiated Education Area Coordinator: Dr. Yolanda González
Phone and extensions: (787) 764-0000, ext. 89205, 89196, 89203, 89253
Portal: <http://ege.uprrp.edu/>

DEGREE:

Master's Degree in Education with a specialty in Special and Differentiated Education

TEACHERS:

Yolanda González Román, DMD, MEd, University of Puerto Rico, 1984, 2012. Assistant Professor. Special and differentiated education; teacher training in the area of autism, evidence-based practices for the education of people with autism and developmental differences, transition processes.

Edwin Vega Milán, EdD, University of Puerto Rico, 2008, Associate Professor. Special and differentiated education. Leadership in educational organizations. Use of assistive technologies in curricular adaptation at the university level. Attention to diversity in teacher preparation programs.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Recognized and accredited baccalaureate degree.
2. Minimum grade point average of 3.00 on a 4.00 scale.
3. Graduate Studies Admission Exam (optional).
4. Two letters of recommendation from education professionals
5. Capacity for critical and creative analysis.
6. Learning experiences in the field.
7. Experiences with exceptional people or diverse populations.
8. Participate in a dialogic interview with professors and peers.

Documents and Other Requirements for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format.
2. Two (2) official copies of Baccalaureate credit transcripts.

3. Essay on experiences and academic background and their relationship to career goals. (500-1500 words).

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of 3.00 or higher in the courses that are considered for graduation.

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses & Learning Experiences	9
EDUC 6578: <i>Advanced Seminar: Nature, Needs, and Education of Exceptional Individuals</i> o EDUC 6800: <i>Problems and Controversies in Special Education</i>	3
EDUC 6807: <i>Intelligences, Talents and Creativity: Foundations, Trends and Implications for Education</i>	3
EDUC 6809: <i>Authentic assessment as a tool for learning</i>	3
<i>Courses and learning experiences in the specialty</i>	9
EDUC - <i>Course in a field of special and differentiated education</i>	3
EDUC - <i>Course in teaching methodology and curriculum in a field of special and differentiated education</i>	3
EDUC 6855: <i>Integration of knowledge and practices in special and differentiated education.</i>	3
<i>Educational Research and Evaluation Course</i>	3
EDUC 6509: <i>Research Methods in Education</i> or EDUC 6415: <i>Action Research in Educational Contexts</i>	
Free Electives	6
Degree Exam EDUC 6900	0
Research/Creation Project EDUC 6865: <i>Seminar on Research/Creation Project in Special and Differentiated Education</i>	3
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6578 Advanced Seminar on the Nature, Needs and Education of the Exceptional Learner

Three credits. Three hours of lecture a week.

Study of the etiology, identification, characteristics, learning problems and education of the atypical or exceptional child and young person. Emphasis will be given to the analysis of contemporary practices, as well as the sociological, philosophical, and psychological factors that affect the education of the exceptional individual in educational placement alternatives.

EDUC 6800 Issues and Controversies in Special Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6578 Discussion and Analysis of Contemporary Issues and Controversies Affecting Special Education. Emphasis will be placed on social, philosophical and psychological theories, as well as the economic and legal aspects that influence the development of special education for exceptional children and young people.

EDUC 6807 Intelligences, Talents and Creativity: Foundations, Trends and Implications for Education

Three credits. Three hours of lecture a week.

A broad and integrative study of the fundamentals of an education focused on the optimal development of the student's intelligences, talents and creativity. Emphasis on the formation of the educator's metamorphic, theoretical, and practical thinking around recent trends in this field, through self-reflection, shared reflection, participatory action-research, and creative work.

EDUC 6809 Authentic Assessment as a Tool for Learning

Three credits. Two hours of lecture and two hours of lab per week. Review of evaluation as a data collection procedure for various purposes. It emphasizes the need to know the philosophical perspectives, tools, techniques and procedures available to make authentic assessments that improve teaching and learning in the context of regular and special education.

EDUC 6855 Integrative Experience of Knowledge and Practices in Special Education y Differentiated

Three credits. Three hours of lecture a week.

Prerequisite: Approval of core courses.

Integrative experience in a wide range of scenarios, in attention to diverse populations and in situations of vulnerability. Application of Special Education Practices

and differentiated varied, such as teaching, curriculum design, assessment, evaluation, leadership, technological assistance, development of teaching materials and consulting services. Emphasis on theoretical-practical reflection, action research, creative work, service learning and multidisciplinary teamwork. Contributions through proposals for change and innovative projects in the student's areas of emphasis and specialty. It includes continuous mentoring and 150 hours in the tasks set out in the work plan.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6415 Action Research in Educational Contexts

Three credits. Three hours of discussion a week.

Study of the epistemological, evaluative and theoretical foundations of action research, as well as its methods and techniques. Emphasis is placed on linking research and action in order to improve teaching-learning processes and solve problems in educational contexts. It includes practice in the planning, execution and dissemination of studies of this type. Face-to-face, hybrid and online course.

EDUC 6900 Subject Exam

Credits: 0

EDUC 6865 Seminar on Research/Creation Project in Special and Differentiated Education

Three credits. Three hours of seminar per week.

Prerequisites: Approval of core courses: EDUC6578 O EDUC6800, 6807, 6809, EDUC6809 EDUC6855 and a research course (EDUC6509 or EDUC6415) Personalized, differentiated and contextualized learning experience that aspires to ground and channel the ideas and practices of the students of the Program in Special and Differentiated Education who are carrying out their Research/Creation Projects. Focused on: (a) research-based project-creating construction in education; (b) the processes of research/creation based on educational work; (c) the design of projects based on the systematizing reflection of academic and professional experiences; (d) methodologies for developing and designing emerging educational projects; (e) the rationale and contextualization of research/creation projects; and (f) the possible contributions of their projects for innovation and transformation in real educational scenarios. This integrative seminar will enable the culmination of the Master's Research/Creation Project in its field of specialty.

OTHER COURSE DESCRIPTIONS:

EDUC 6086 People with Diverse Abilities in a Digital World

Three credits. Three hours of discussion a week.

This course is aimed at discussing how technological assistance enables people with diverse abilities to access the digital world, in turn, creating greater opportunities for their inclusion in society. The links between digital technology and technological assistance (TA) are examined with the aim of increasing the level of participation of the population of people with diverse abilities in training, community and community contexts. y labor. Face-to-face, hybrid and online course.

EDUC 6416 Research and Creation in the Field of Technological Assistance: Trends, Developments and Implications

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

Prerequisite: EDUC 6415 and EDUC 6509.

Approach to the research and creations that have given rise to the evolution of TA and the exploration of emerging themes that give rise to their development. Emphasis on the research process as a basis for developing new technological alternatives for the population of people with diverse abilities.

EDUC 6450 Advanced Course in Physical Education for the Handicapped (Practicum)

Six credits. Twelve hours of lab and three hours of seminar per week.

The course offers laboratory experiences and advanced practice in teaching physical education to children with disabilities. Emphasis will be given in the areas of teaching motor skills, theory and through seminars or workshops for normal and disabled children. The course is based on the mastery of execution criteria and the development of specific competencies.

EDUC 6455 Child Abuse among the General and Exceptional Population

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

Discussion of the principles of human rights and the laws that cover the protection of minors in the country and the criminalization of abuse. Factors that increase the risk of maltreatment in the general and exceptional population and the implications of various conditions with respect to maltreatment are addressed. Intervention models used in Puerto Rico and some prevention and education programs are discussed. Opportunities are provided to familiarize themselves with the work of child protection professionals and how educators in general and special education educators in particular can contribute to reducing the incidence of maltreatment by collaborating on prevention and intervention.

EDUC 6685 Technology Assistance: Fundamentals, Controversies and Applications

Three credits. Two hours of lecture and one discussion a week.

Analysis of technological assistance (TA) as an essential tool to promote the independence and level of productivity of people with diverse abilities in educational, work and community contexts. Study of the historical, ethical and legal foundations that justify and promote the use of TA to increase the inclusion of people with diverse abilities in their educational and

social environment. Study of the various technologies related to this field according to the characteristics, strengths and challenges of each exceptional group. Face-to-face, hybrid and online course. Face-to-face, hybrid and online course.

EDUC 6700 Audiology: Speech and Language

Three credits. Three hours of lecture a week.

Study of the audiological system and its pathologies; auditory measurement, interpretations, audiometry and amplification.

EDUC 6705 Curriculum Development and Strategies for the Teaching of the Hearing Impaired

Three credits. Three hours of lecture a week.

Curriculum design and planning and teaching strategies in the education of audio-impaired students at all levels, especially in elementary and intermediate levels. Selection, modification, development and use of educational technology for the hearing impaired.

EDUC 6706 Communicological, Oral-Auditory Skills for the Hearing Impaired

Three credits. Three hours of lecture a week.

This course is designed to provide students with knowledge based on oral-auditory communication and to train them as intercessors in the implementation of educational programs based on the oral-auditory philosophy in deaf communication.

EDUC 6707 Education and Psychology of the Hearing Impaired

Three credits. Three hours of lecture a week.

Historical, philosophical, psychological and social aspects of the education of the hearing impaired. Guidance on problems, current issues and research in the field of hearing impairment, considering, particularly from a historical and up-to-date perspective, objective techniques and their results.

EDUC 6708 Diagnosis and Correction of Reading Deficiencies in Hearing Impaired Children

Three credits. Three hours of lecture a week.

The problems of teaching reading to children who are hearing impaired and the development of skills in diagnosing and correcting specific reading problems in deaf children.

EDUC 6709 Language Development in the Hearing Impaired

Four credits. Four hours of lecture per week.

It provides the student with a knowledge of the syntax and semantics of Spanish and English for the evaluation (valorization) and programming of the language.

EDUC 6710 Understanding Autism: Biopsychosocial Foundations, Research and Educational Practices

Three credits. Three hours of seminar per week.

Introductory course in which the biological, psychological, and social foundations of autism and therapeutic and educational interventions are analyzed. Historical, etiological, and

research aspects are addressed in the context of a paradigm that emphasizes strengths and differences in neurodevelopment. Special attention is given to early diagnosis, identification and intervention; the design of differentiated communication and socialization strategies; and alternative methods of educational assessment and accommodation. Topical issues and innovations related to the autism continuum are explored from a multidisciplinary perspective.

EDUC 6711 Simultaneous Communication I

Two credits. Two hours of lecture per week.

Prerequisite: EDUC 6709 This course will provide the future teacher of audio-impaired children with a gestural vocabulary of 500 signs. They are trained in the use of signs synchronously with speech and hand spelling to express ideas and concepts.

EDUC 6712 Simultaneous Communication II

Two credits. Two hours of lecture per week.

Prerequisite: EDUC 6711 This course will expand the student's basic simultaneous communication skills. It will offer more than 500 new signs and introduce the student to expressive simultaneous interpretation.

EDUC 6715 Teaching Methodology and Differentiated Educational Spaces for Learners in the Autism Continuum

Three credits. Three hours of seminar per week.

Prerequisites: EDUC 6710.

Seminar on teaching methodology and the creation of differentiated spaces for learners in the autism continuum. Study of the history and evolution of education for this population, and the public policy that governs it. Examination of programmatic approaches, strategies, and interventions to serve learners with autism of different ages and levels of functioning. Emphasis on research and related projects, models and emerging strategies. Incorporation of field experience.

EDUC 6719 Diagnostic-Prescriptive Teaching of Deaf Children with Multiple Disabilities

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6707, 6709 This course reviews the most common combinations of impairments associated with deafness. It also includes instructional approaches, management techniques, class organization and development of the Individualized Educational Program for the deaf population with multiple disabilities.

EDUC 6726 Design and Development of Assistive Technology Alternatives

Three credits. An hour and a half of discussion and an hour and a half of workshop per week. Course aimed at the design and development of low-cost technological assistance alternatives and adaptations to high-tech equipment for people with diverse abilities in training, work and community contexts. It promotes the evaluation of so-called "

mainstream" technologies, a term used to refer to technologies commonly used in the social context. The experiences, framed in a reflective and critical context around professional practice, will encourage students to strengthen their understanding of the role they play in the process of facilitating access to the activities that arise in the environment in which they interact for citizens with diverse abilities. Face-to-face, hybrid and online course.

EDUC 6740 Diagnostic Assessment and Differentiated Educational Assessment for Students on the Autism Continuum

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6710.

Seminar on the multidisciplinary diagnostic assessment process for learners with autism. Review of assessment tools. Study of traditional assessment techniques and innovative activities for the assessment of learning in students in the autism continuum. Creation of alternative appraisal activities and instruments. Analysis of different types of *assessment*. Emphasis on research and related projects, models and emerging strategies. Incorporation of field experiences.

EDUC 6745 Addressing the Behavior of Learners with Autism and the Development of their Social Competencies

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6710 Seminar on multiple theoretical approaches to the behavioral and social-emotional development of learners with autism. It delves into the processes of sifting and evaluating behavioral manifestations. It explores different methods and instruments that are used for this purpose. It discusses educational strategies and models of prevention and intervention. It studies assessment, support, and assistance during the transition process from childhood to adolescence and then to young adults with autism. Includes field experience.

EDUC 6746 Strategies for Overcoming Communication Challenges for Learners with Autism

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6710.

Seminar on the principles and components of typical communication, as well as the differences and challenges of a communicological nature presented by learners in the autism continuum. Discusses teaching strategies to increase their communication skills and promote their social skills. Emphasizes the importance of considering augmentative and alternative modes of communication, assistive technology equipment, educational technology, and modifications to the environment when preparing your Individualized Educational Program. Incorporate field experience.

EDUC 6755 Curriculum and Methodology for the Teaching of the Severely Disabled Individual

Three credits. Three hours of lecture a week.

Analysis and development of special and regular curricular models and materials adapted for the optimal integration of children and young people with severe disabilities into school and the community.

EDUC 6805 Teaching Children and Youth with Mild Disabilities from a Constructivist and Humanistic Perspective of Learning

Three credits. Two hours of lecture and two hours of laboratory time per week. Prerequisite:

Three graduate credits in curriculum or its equivalent. The course provides the student with theoretical and practical knowledge about the teaching of children and young people with mild disabilities based on their needs and abilities. It discusses and provides practical opportunities for the design and implementation of holistic educational activities that promote the learning of reading, writing, and mathematics. It emphasizes a constructivist and humanistic model of learning in the elaboration of teaching activities, paying particular attention to the processes of learner development. The course allows the special educator to attend to the educational needs of students who show difficulties based on a model of strengths.

EDUC 6835 Curriculum and Teaching for the Optimal Development of Intelligences, Talents and Creativity

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6807. Critical analysis of theories, research, models, projects, and curricular and teaching initiatives focused on the optimal development of learners' intelligences, talents, and creativity. Emphasis on the role of the educator as planner and reformer of curriculum and teaching, highlighting his or her thinking in action, the collaborative aspect of action research, and the process of creative innovation in the educational task. **Interim Dean:** Dr. Grace Marie Carro Nieves **Director of the**



Department: Dr. José Soto Sonera

Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi

Educational Leadership Area Coordinator: Dr. Claudia Álvarez Romero

Phone and extensions: (787) 764-0000, ext. 89205, 89196, 89252, 89253

Portal: <http://ineva.uprrp.edu/>

DEGREE:

Master's Degree in Education with a specialty in Educational Research and Evaluation

TEACHERS:

Claudia X. Álvarez Romero, PhD, University of Connecticut, 2006, Associate Professor. Evaluation of programs in the area of education; teacher preparation; early education; multicultural research; construction and validation of instruments in the affective area; Hierarchical Linear Modeling (HLM).

Víctor E. Bonilla Rodríguez, PhD, Loyola University Chicago, Illinois, 2002, Professor. Instrument construction and its psychometric qualities; research methods; survey research; research ethics; technology in the classroom; teaching and learning process; early education.

María del R. Medina Díaz, PhD, University of Wisconsin, 1991; J.D., University of Puerto Rico, 2014. Professor. Construction and validation of utilisation tests and other measuring instruments; theory and practice of educational measurement; academic integrity in educational institutions; ethics in educational research and evaluation; assessment of student learning; evaluation of educational and social programmes, projects and services; Learning, Teaching, and Assessment in Mathematics.

Joseph F. Carroll Miranda, Ph.D. New Mexico State University, 2006. Assistant Professor. Technology adoption, learning technologies, critical pedagogy, emergent curriculum, youth culture, school effectiveness, computer science education, big data, emergent research methods.

Juan P. Vázquez Pérez, Ph.D., Universidad Pontificia de Salamanca, 2012, Assistant Professor. Quantitative and qualitative research; assessment of learning; program evaluation; construction of instruments for research and evaluation; evidence for the validity of inferences; Pedagogical training of university professors.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Baccalaureate degree (or its equivalent) in any subject.
2. Minimum GPA of 3.0
3. 3-credit statistics course (A person who does not meet the requirement of having taken a statistics course may be conditionally accepted.)
4. Minimum of 9 credits in mathematics, quantitative methods, computers, research, assessment, or a combination of these.
5. Take the Graduate Studies Admission Exam.
6. Interview.
7. Three letters of recommendation, two of which are from professors who can comment on the applicant's ability to pursue graduate studies.
8. International students must meet the requirements established by the University of Puerto Rico, Río Piedras Campus to study at the institution.

Documents and Other Requirements for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format on the "ApplyYourself" platform.
2. Two (2) letters of recommendation for Graduate Studies in electronic or paper format.
3. Two (2) official copies of Baccalaureate credit transcripts.

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass the courses of the specialty with a grade of no less than "B" and obtain a grade of no less than "C" in the other courses.
3. Have an academic index of no less than 3.00 in the courses that are considered for graduation.

PROGRAM OF STUDY:

Program Requirements	Credits
Specialty courses (including research methodology, statistics, evaluation, and fundamentals of education, among others)	18
Elective Courses	9
Thesis	3
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6268 Seminar on Biographical Research in Education

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6400 or EDUC 6513 In-depth study of biography as a research design that allows addressing educational problems, phenomena and processes to address the educational problems of Puerto Rican society, from a biographical perspective. Critical analysis of related literature and development of competencies to carry out biographical studies.

EDUC 6269 Seminar on Life History in Education

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6400 or EDUC 6513 or its equivalent Life History Study as a Research Design for Studying Educational Topics. Critical analysis of related literature and development of competencies to make life stories.

EDUC 6330 Seminar on Educational Research

Three credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: EDUC 6400 Educational research workshop that provides hands-on experience combined with discussions on the planning and development of the different phases of a research project. The course allows students to see in the field the problems that may be encountered in the development of a research: administrative, personnel, interagency relations problems, among others.

EDUC 6340 Theory of Measurement I

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6405 Study of classical and modern theory underlying the development and use of measurement instruments in education and psychology.

EDUC 6390 Applied Statistics in Education I

Three credits. Three hours of lecture a week.

Application of various statistical analyses in education, with emphasis on their assumptions, justification, computer data processing, and interpretation of results. It includes frequency distributions with their measures of central tendency and variability, probability distributions, correlation (parametric and non-parametric), regression, and hypothesis testing (z, t, Chi-squared, and one-way ANOVA). Computer use is required. Face-to-face, hybrid and online course.

EDUC 6395 Workshop on Computerized Data Processing in Education - Part I

Three credits. An hour and a half of lectures and three hours of laboratory work a week.

Prerequisite: EDUC 6390 and EDUC 6509 Workshop composed of three parts or units of study in which the content, organization and integral operation of the programs that make up the *Statistical Package for the Social Sciences (SPSS)* are discussed. It considers in its initial part, by way of introduction and review, the process of scientific research, the levels of measurement, the appropriate statistical techniques, the conceptualization of a research problem, and the collection and coding of data.

EDUC 6400 Research Designs

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6390, EDUC 6509 Study, analysis and elaboration of quantitative and qualitative research designs in education. Emphasis on maximizing the validity or credibility of different designs. Discussion and analysis of research illustrating the different types of designs. Course offered face-to-face, hybrid, and online.

EDUC 6415 Action Research in Educational Contexts

Three credits. Three hours of discussion a week.

Study of the epistemological, evaluative and theoretical foundations of action research, as well as its methods and techniques. Emphasis is placed on linking research and action in order to improve teaching-learning processes and solve problems in educational contexts. It includes practice in the planning, execution and dissemination of studies of this type. Face-to-face, hybrid and online course.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6513 Seminar: Qualitative Research in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6509 or its equivalent Critical analysis of the theoretical foundations, models and contributions of qualitative research to the study and understanding of educational problems. Study of the epistemological paradigms and assumptions that underpin qualitative research approaches and methodologies. Development of competencies in the preparation of proposals and research. Face-to-face, hybrid and online course.

EDUC 6515 Field Experience in Educational Research and Evaluation

Three credits. Six hours of lab per week.

Prerequisites: EDUC6400 and approval from the instructor offering the course. Field experience in the different steps that make up the research process. The student must accumulate a minimum of 90 hours in this supervised internship. This experience is gained by participating in a recognized research center in collaboration with faculty-led research projects or by conducting program evaluations in the community or in agencies. It can be taken up to 2 times (6 credits).

EDUC 6586 Evaluation Theory and Methodology

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6390 and 6509 Study of evaluation as a type of specialized research. It includes the critical analysis of the main models, their epistemological and methodological bases. Development of basic skills for planning and implementing evaluations

EDUC 6596 Classroom Assessment

Three credits. Three hours of lecture a week.

Study of the theory and methodology of student learning assessment. Emphasis on the development, adaptation, and use of techniques and tools. It includes the analysis and interpretation of data aimed at making judgments about student achievement.

EDUC 6597 Construction of Measuring Instruments

Three credits. One hour of lecture and two hours of laboratory time per week. Prerequisites: EDUC 6390 Study of the basic theory and main systematic methods for constructing various measuring instruments. Includes hands-on experience in developing them.

EDUC 8001 Multivariate Analysis in Educational Research I

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6405 Theory and application of the following analytical techniques in educational research: correlation and multiple regression; multivariate analysis of variance; Univariate and multivariate analysis of covariance and logistic regression. Attention is given to the use of computerized statistical programs to perform these analyses. Face-to-face, hybrid and online course.

EDUC 8002 Multivariate Analysis in Educational Research II

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8001 Theory and application of the following analysis techniques in educational research: discriminant analysis, factor analysis, canonical analysis, causal models, and multidimensional scales. Attention is given to the use of computerized statistical programs to perform these analyses.

EDUC 8018 Comparative Correlational and Causal Research

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6509, 6390 Study and development of non-experimental quantitative research in education, specifically comparative correlational and causal studies, both cross-sectional and longitudinal. Emphasis on the study of its essential and methodological characteristics. It includes hands-on experience, use of technology, and preparation of research reports.

EDUC 8020 Experimental Research in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6405 Theory and Practice in the Design, Analysis, and Interpretation of Experimental Research and quasi-experimental. Critical review of methodological aspects in the planning and conduct of experimental research in educational settings.

EDUC 8030 Evaluation of Educational Programs

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6509 and EDUC 6586 or equivalent Study of the foundations, models and methods for evaluating educational programs. Face-to-face, hybrid and online course.

EDUC 8068 Non-Parametric Statistics in Educational Research

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6390 - Applied Statistics in Education Study of the statistical analyses used when educational research data are collected with categorical scales (nominal or ordinal) and do not depend on the form of distribution. Tests for one, two, or more dependent and independent samples are included. Hands-on experiences with computer use are included.

EDUC 8076 Survey Research

Three credits. Three hours of discussion a week.

Prerequisites: EDUC 6509 and EDUC 6390 Study and development of survey research in education considering telephone, electronic, mail, and in-person surveys. Emphasis on sample design to represent populations, as well as instruments and procedures for data collection and analysis. It includes hands-on experience, use of technology, and preparation of reports.

EDUC 8088 Mixed Research Methods

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6400, EDUC 6513 Analysis and design of research that includes quantitative and qualitative aspects. The course is based on an epistemological analysis of mixed research methods. Special attention will be given to the conceptualization of research problems and design. In addition, research will be analyzed to illustrate different designs and identify their strengths and challenges.

EDUC 8266 Ethnographic Research

Three credits. Three hours of lecture a week.

Prerequisite: One of the following: EDUC 6400, 6513 Consideration of the theories and paradigms that underpin ethnographic research. Study of the strategies and techniques of ethnography and the management and analysis of ethnographic information.

EDUC 8267 Qualitative Analysis Models

Three credits. Two hours of lecture and one hour of laboratory.

Prerequisites: EDUC 6513 or EDUC 8266.

Study and application of qualitative analysis models such as dramaturgical analysis, *Grounded Theory* and the Wolcott-DAI model. It also includes the use of computer programs for this type of analysis and the application of analysis models to qualitative educational research datasets. Face-to-face, hybrid and online course.

EDUC8268 Seminar on Controversial Issues and Ethical Aspects in Qualitative Research

Three credits. Three hours of seminar per week.

Prerequisites: EDUC 6400 or EDUC 6513 In-depth study of the most important historical moments and of the international codes and regulations in force that emerged to protect participants in research in general and qualitative research in particular. Critical analysis of the literature and the development of competencies to work with controversial issues and ethics within qualitative research.

EDUC 8340 Theory of Measurement II

Three credits. Three hours of discussion a week.

Prerequisite: EDUC 6340 Study of Item Response and Generalization Theories and Other Models for the Analysis of Measurement Instrument Results. Emphasis is placed on the application of these theories in the development of measurement instruments and in the interpretation of the results obtained with them. It includes the use of computer programs to perform the analyses when applying these theories and models.



Interim Dean: Dr. Grace Marie Carro Nieves
Director of the Department: Dr. José Soto Sonera
Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi
TESL Area Coordinator: Dr. Kevin Carroll
Phone and extensions: (787) 764-0000, ext. 89205, 89196, 89203, 89253
Portal: <https://ege.uprrp.edu/>

DEGREE:

Master of Education with a specialty in Teaching English as a Second Language

TEACHERS:

Kevin S. Carroll, PhD, University of Arizona, 2009. Associate Professor. Language planning and policy, translanguaging, bilingual education, and *teaching English to speakers of other languages*.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Complete an application for admission, including a statement of purpose written in English, at the following Internet address:
<https://app.applyyourself.com/?id=upr-grad>
2. Have an academic index of no less than 3.00 on a scale of 4.00 in Baccalaureate studies.
3. Proficiency in English and Spanish.
4. Submit an official transcript of completion of the Baccalaureate degree (or its equivalent).
5. Have passed 6 credits in courses in linguistics or applied linguistics, or instead have 2 years of experience teaching English.

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of 3.00 in the courses that are considered for graduation.
4. Complete the requirements within a period of four (4) years for full-time students and five (5) years for part-time students from the date of commencement of studies.
5. Pass no less than 24 credits, out of the total required, taken at the University of Puerto Rico.

PROGRAM OF STUDY:

Program Requirements	Credits
Component Courses: Professional/Core	12
EING 6565: Advanced Seminar: The Principles of Teaching and Learning English as a Second Language	3
EING 6566: Seminar on Curriculum, Teaching, and Assessment of the High School English Program	3
EING 6420: Advanced Methodology for Teaching Oral English to Speakers of Other Languages	3
EDUC 6509: Research Methods in Education	3
Component Courses: Directed Professional	9
<u>Select two (2) courses from the following:</u> EING 6570: Bilingual Education: Theory and Practice in Bilingual Education EING 6575: Methodology for Teaching Grammar and Written Composition in Modern English: Techniques and Materials EING 6577: Methodology for Teaching Contemporary English-Speaking Literature: Principles, Methods, and Texts	6
Course in applied linguistics, linguistics, English literature, bilingual or other education in the student's area of research (Chosen with the help of the program coordinator)	3
Elective Courses	6
Research Seminar	3
EING 6601 Research and Creation Seminar at TESL	3
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EING 6565 Advanced Seminar: The Principles of Teaching and Learning English as a Second Language

Three credits.

Summary of the historical perspective of English language teaching in Puerto Rico. In-depth study of the theoretical foundations of learning and teaching a second language. Critical examination of trends and methods in second language teaching to explore how theories of second language acquisition and learning relate to teaching practice in formal contexts. Discussion and analysis of the methodology of English as a second language currently used in the island's public schools from the perspective of current trends and the sociolinguistic needs of Puerto Rican students. Research is required on issues related to the teaching and learning of second languages. This course will be offered in face-to-face, hybrid, and online formats.

EING 6566 Seminar on Curriculum, Teaching, and Assessment of the High School English Program

Three credits.

Prerequisite: EING 6565 The formulation of a curriculum and assessment design in a practical situation, similar or the same as those confronted by students in their schools or school districts; The evaluation of this design will be done in terms of the curricular objectives of the school and the personal goals of the group of students selected as experimental. Students will be required to do hands-on teaching in classrooms. Face-to-face, hybrid and online course.

EING 6420 Advanced Methodology for Teaching Oral English to Speakers of Other Languages

Three credits.

Intensive reading and discussion of the basic principles related to teaching oral English to speakers of other languages; application of these principles to teaching techniques and materials at various levels; comparison and contrast of the phonology of North American English with that of Puerto Rican Spanish; Identification of the linguistic problems faced by Puerto Rican students studying American English. Re-evaluation of the practices used in the present with particular emphasis on the development of the productive use of language. Face-to-face, hybrid and online course.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EING 6570 Bilingual Education: Theory and Practice in Bilingual Education

Three credits. Three hours of lecture a week.

Introduction to bilingualism, bilingual education, and the nature and needs of students in bilingual programs. Emphasis is placed on theories and the development of bilingual instruction and teaching methods in English. The models, methods, materials, and assessment of bilingual and English as a Second Language programs are critically examined. The historical, legal and theoretical bases of bilingual approaches are studied. The overarching, political, and multicultural perspectives of bilingual education are critically examined. Analysis of the linguistic, psychological, sociological, and instructional implications of bilingualism, with emphasis on Puerto Rico. Research is required on issues related to bilingual education. This course will be offered in face-to-face, hybrid, and online formats.

EING 6575 Methodology for Teaching Grammar and Written Composition in Modern English: Techniques and Materials

Three credits. Three hours of lecture a week.

Critical analysis of the theories that underpin the teaching of grammar and composition and discussion of their practical application in the teaching of English as a second language. Discussion of the main theories and schools of linguistics and analysis of issues related to the teaching of grammar and composition. Instruction focused on grammatical forms, the relationship between reading and writing, the process of composing, peer review, the use of technology in the teaching of writing and in the process of composing, and the assessment of writing are studied. Emphasis is placed on the demonstration of teaching techniques, microteaching experiences, and the application of metacognitive skills to improve writing skills. Research is required on issues related to the teaching of grammar and composition. This course will be offered in the face-to-face, hybrid and online modalities.

EING 6577 Methodology for the Teaching of Contemporary English-Speaking Literature: Principles, Methods, and Texts

Three credits. Two hours of lecture and two hours of laboratory time per week.

Understand the objectives, contents, and strategies of teaching literature. The evaluative criteria that emerge from the study of contemporary English-language literature through drama, poetry, and prose will be evaluated according to innovative trends. Representative works by the following authors will be read and analyzed: Arthur Miller, Eugene O'Neill, Tennessee Williams, T.S. Eliot, Robert Frost, Ezra Pound, Ernest Hemingway, John Steinbeck, Herman Wouk, and other authors that the teacher and students agree to study. Special attention will be given to the development of skills that lead the student to the understanding and appreciation of literary

studies. In addition, philosophical principles, pedagogical and technical resources and the latest experiments in the teaching of this subject will be evaluated. Face-to-face, hybrid and online course.

EING 6601 Research and Creation Seminar at TESL

Three credits. Two hours of research and one hour of seminar per week. Prerequisite: last semester in the curricular sequence of the master's degree in TESL Study of the theoretical foundations and research methods in the field of teaching English as a second language. Students will complete research in their area of interest in the field of TESL. The work they do is equivalent to a completion exercise for the master's degree (MED TESL). In addition, it equates as a full academic load for the graduate student. Face-to-face, hybrid and online course.

OTHER COURSE DESCRIPTIONS:

EDUC 6140 The Role of Puerto Rican Historical and Cultural Experience in Bilingual and Bicultural Education

Three credits. Three hours of lecture a week.

Course designed to provide knowledge about the cultural and historical heritage of the Puerto Rican child; the role of bilingual, bicultural children in the learning process of the bilingual and bicultural child and in the development of the curriculum-relationship of this heritage in transitional schools; Field trips may be included, role of ethnic studies. This course will be offered in face-to-face, hybrid and distance learning modalities.

EDUC 6516 Linguistics and the Teaching of English Readings to Spanish-Speaking Children

Three credits. Three hours of lecture a week.

Analysis of the elements of language; examination of teaching-learning in the development of (bi)literacy; oral and written expression in English with an emphasis on capitalizing on students' linguistic and cultural resources; Comparative linguistic analysis of Spanish and English. This course will be offered in face-to-face, hybrid and distance learning modalities.

EDUC 6250 Culture and Racism: Their Effect on the Bilingual and Bicultural Educational Environment

Three credits. Three hours of lecture a week.

Analysis of the relationship between culture, language, identity and racism, its implications for the educational experiences of bilingual and bicultural children and on teacher preparation, the relationship between cognitive style and cultural content, analysis of stigma and minority identity in terms of probabilities of success and failure in school; social and psychological adjustment to the school environment.



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Portal: <https://ege.uprrp.edu/>

DEGREE:

**Master of Education with a specialization in Leadership in Educational Organizations
Plan A - 30 credits**

TEACHERS:

María de los Ángeles Ortiz Reyes, PhD, New York University, 1982, Professor. Program Evaluation and Assessment; higher education; strategic leadership; bullying; institutional research; accountability, institutional effectiveness and accreditation; internationalization of higher education; third mission; Project Based Learning K-12 and Academic Entrepreneurship.

Alicia Montañez García, EdD, University of Puerto Rico. 2011. Certification in Community Development, Rutgers University, Camden Campus, 2016. Assistant Professor. Leadership and Organizational Change, Culture in Educational Organizations, Strategic Planning, Developing Effective K-12 Learning Contexts, Leadership & Community Development, School Engagement & Governance, Professional Development for Educators, Educational Coaching, Servant Leadership, Higher Education Leadership y exemplary leadership practices in diverse educational settings.

Juan R. Rodríguez-Rivera, EdD, University of Puerto Rico. 2011. Assistant Professor. Administrative and didactic structures to achieve efficiency and effectiveness in educational systems; Systemic school change; Strategic Planning and Organizational Development; Effective leadership to promote changes in organizational culture (schools and organizations with educational programs or projects), Impact of transition between levels.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Bachelor's degree from an accredited university or its equivalent.
2. Minimum academic index of 3.00 points on a scale of 4.00
3. Two letters of recommendation from professors or other professionals who can comment on the applicant's ability to pursue graduate studies.
4. Proficiency in Spanish and English.

Documents and other Requirements for the Application for Admission:

1. Application for Admission to Graduate Studies in electronic format.
2. Two (2) letters of recommendation for Graduate Studies in electronic format or on paper.
3. Two (2) official copies of Baccalaureate credit transcripts.

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of no less than 3.00 in the courses that are considered for graduation.

Additional Requirements

1. Pass core, specialty, or elective courses with a minimum of C.
2. Have an academic index of no less than 3.00 in the courses that are considered for graduation.
3. Meet all of the above requirements within a period of six (6) years from the date you begin your graduate studies. To this end, it is very important that the student prepares a study plan with his/her academic advisor. Note: Students may enroll up to 6 EDUC credits. 6995- Independent study to meet the requirement of specialty electives or free electives (requires authorization from the professor and the Department Directorate, refer to the specialized study policy and the independent study policy).

PROGRAM OF STUDY:

Plan A

Program Requirements	Credits
Core Courses	24
EDUC 6626: Philosophical and Theoretical Foundations of Organizational Leadership	3
EDUC 6521: Administrative Leadership in Education	3
EDUC 6522: Didactic Leadership in Educational Administration	3
EDUC 6665: Strategic Leadership in Educational Organizations	3
EDUC 6509: Research Methods in Education	3
EDUC 6598: Community and Policy Leadership in Educational Organizations	3
EDUC 6670: Educational Leadership Internship - Part I	3
EDUC 6210: Educational Leadership Internship- Part II	3
Free Elective Courses	6
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6626 Philosophical and Theoretical Foundations of Organizational Leadership

Three credits. Three hours of lecture a week.

Study and integration of interdisciplinary philosophical frameworks to the analysis of educational organizations, their structure and their sociocultural context. Study and discussion of various organizational and leadership management theories to understand and transform educational organizations.

EDUC 6521 Administrative Leadership in Educational Organizations

Three credits. Three hours of lecture a week.

Study of theories, concepts, processes, and principles related to administrative leadership in education. Development of knowledge, skills and attributes to understand and improve the organization, implement operational plans, manage fiscal resources and apply decentralized

administrative processes and procedures towards the achievement of the vision in the institution. Analysis of recent research and its implications for administrative leadership in education.

EDUC 6522 Didactic Leadership in Educational Administration

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Study of the Nature and Functions of Didactic Leadership in Educational Administration. Emphasis on research, controversies, and ethical and legal considerations around instructional leadership.

EDUC 6665 Strategic Leadership in Educational Organizations

Three credits. Three hours of lecture a week.

Studies of theories, concepts, processes and principles related to strategic leadership in education. Development of knowledge, skills and attributes to identify contexts; developing, articulating and implementing, together with others, the vision and purposes of an organization; analyze information, define problems, exercise leadership processes to achieve common goals, and act ethically for educational communities.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6598 Community and Political Leadership in Educational Organizations

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

Prerequisite: EDUC 6521 Study of community development models and public relations applied to educational organizations and community education. Analysis of community leadership and the development of emerging paradigms to establish an effective process of relations with the community as a fundamental element for the achievement of the goals and objectives of education. Evaluation of legal provisions, statutes, regulatory standards, appropriate policies, and the relationship of public policy initiatives to the well-being of the community. Face-to-face, hybrid and online course.

EDUC 6670 Educational Leadership Internship I

Three credits. Three hours of lecture a week.

Study of administrative practices applied to elementary, secondary, and special education schools. Emphasis on research/creation for the development of the analysis of an educational context and the preparation of an action plan aimed at addressing the identified needs. Includes a minimum of 15 hours of field experiences.

EDUC 6210 Internship in Educational Leadership- Part II

Three credits. 150 hours of clinical experience.

Prerequisite: Have 21 credits in the Professional Experience major that provides students with meaningful opportunities in a work setting to demonstrate their academic aptitude in applying and building knowledge; practice and develop competencies related to strategic, didactic, administrative, community, ethical, and political leadership in a PK-12 educational center. One hundred and fifty (150) hours of clinical experience and participation in weekly seminars during the semester coordinated by the professor in charge are required.

OTHER COURSE DESCRIPTIONS:

EDUC 6005 Management in Administrative Leadership

Three credits. Three hours of lecture a week.

Prerequisites: Permission from the director of the graduate program Study and critical analysis of the principles that guide management within the administration of the educational enterprise. Application of the fundamentals of school management in the areas of accounting and fiscal resources and finances of educational institutions, data processing, maintenance and control operations, personnel administration, and management development and training techniques.

EDUC 6006 Methods and Techniques of School Supervision

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6521-6522 Study and critical analysis of school supervision methods and techniques; with emphasis on the origin, development, implementation and effectiveness of supervision models and strategies in the classroom as the scenario par excellence where the supervision process is framed. Observation of classes planned, led and supervised by students; using laboratory and simulation techniques such as microteaching
y micro-monitoring.

EDUC 6527 Contemporary Trends and Practices in Administrative Leadership

Three credits. Three hours of lecture a week.

Extensive selection and discussion of issues and viewpoints. Controversies related to school administration; with emphasis on modern trends and practices that respond to research results and recent experiences.

EDUC 6556 Seminar on Controversial Issues in Educational Leadership

Three to six credits. Six hours of lecture per week.

Prerequisite: EDUC 6521-6522 Study and analysis of the challenges and opportunities facing secondary schools and their impact on the instructional program. Objective examination of the changing role of the school principal. Development of strategies to deal with these problems and conflicts. Emphasis on clinical experiences and case studies. The seminar will have a component in human relations.

EDUC 6598 Community and Political Leadership in Educational Organizations

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

Prerequisite: EDUC 6521 Study of community development models and public relations applied to educational organizations and community education. Analysis of community leadership and the development of emerging paradigms to establish an effective process of relations with the community as a fundamental element for the achievement of the goals and objectives of education. Evaluation of legal provisions, statutes, regulatory standards, appropriate policies, and the relationship of public policy initiatives to the well-being of the community.

EDUC 6618 Educational Leadership in Vocational Education

Three credits. Three hours of lecture a week.

Study and analysis of the theory and practice of vocational educational leadership. Examination of the specific problems faced by the vocational administrator in carrying out his duties in technical-vocational schools. Face-to-face, hybrid and online course.

EDUC 6669 Organizational Culture in Educational Institutions

Three credits. Three hours of lecture a week.

Analysis of the implications of organizational culture for leadership, decision-making and the process of change in educational institutions. Analysis of recent research and its implications for the development of organizational culture in educational institutions. Face-to-face, hybrid and online course.

EDUC 6999 Fieldwork in Educational Leadership

Two to four credits. Two to four hours of lab or lecture per week. Prerequisites: Teacher's Permission.

The student will work independently, with the advice of the teacher, on a project or research related to one of the dimensions of educational leadership.

EDUC 8016 Organizational and Administrative Theories of Education

Three credits. Three hours of lecture a week.

Study and analysis of the most recent administrative theories and their application to the school setting, considering the sociocultural characteristics and special conditions that affect the particular environment under study.

EDUC 8026 Leadership in Educational Administration and Supervision

Three credits. Three hours of lecture a week.

Study of the principles and theories of leadership and their application to supervision at different educational levels. Leadership in educational institutions.

EDUC 8027 Contemporary Practices of Didactic Leadership

Three credits. Three hours of lecture a week.

Study and analysis of practices in the exercise of didactic leadership. Analysis of the leader's competencies to strengthen academic programs.

EDUC 8047 Strategic Planning in Educational Organizations

Three credits. Three hours of lecture a week.

Study of concepts, processes, practices and techniques of strategic planning in educational organizations. Analysis of philosophical, structural, and procedural elements that establish the basis of the vision, mission, goals, and objectives that give direction and transform educational systems based on the study of diverse contexts.

EDUC 8115 Educational Leadership Internship

Six credits. Three hours of lecture and nine hours of laboratory time per week. Prerequisite: Have been accepted as a doctoral candidate The doctoral internship is a field experience that provides students who specialize in the area of educational administration with the opportunity to conceptualize and apply the theoretical frameworks they have studied in the discipline, with the purpose of developing them as leaders and agents of change in educational systems. The field experience will be complemented by a seminar.

EDUC 8016 Organizational and Administrative Theories of Education

Three credits. Three hours of lecture a week.

Study and analysis of the most recent administrative theories and their application to the school setting, considering the sociocultural characteristics and special conditions that affect the particular environment under study.

EDUC 8116 Educational Administration as Philosophy in Praxis

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

Philosophical Foundations of Educational Administration and Leadership. Management and leadership as a philosophy in praxis and science. Research of the contributions of historical philosophical currents in the configuration of contemporary educational administration and leadership. Administrative and leadership praxis in the Puerto Rican educational scenario seen from diverse philosophical frameworks. Educational administration and leadership as an ethical project.

EDUC 8070 Human Resource Development in Educational Administration

Three credits. Three hours of lecture a week.

Study of the conceptual, ethical, normative and research frameworks in the processes of recruitment, selection, development and evaluation of human resources capable of transforming educational organizations and promoting a culture of peace. Analysis of the integration of technology in these processes. A minimum of 15 hours of field experience will be required.

EDUC 8129 Institutional Evaluation, Assessment, and Accountability in the Administration of Educational Systems

Three credits. Three hours of lecture a week.

Study of theoretical perspectives and administrative practices to carry out institutional assessment and learning assessment in a comprehensive manner. Analysis of various theoretical frameworks and formal models for institutional evaluation. Use of innovative

methodologies to develop indicators of institutional competitiveness and social responsibility in education systems. 15 hours of field experience is required.



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Portal: <https://ege.uprrp.edu/>

DEGREE: Doctorate in Education with a specialty in Leadership in Educational Organizations Plan B– Master's Degree– Doctorate (69 credits)

TEACHERS:

María de los Ángeles Ortiz Reyes, PhD, New York University, 1982, Professor. Program Evaluation and Assessment; higher education; strategic leadership; bullying; institutional research; accountability, institutional effectiveness and accreditation; internationalization of higher education; third mission; Project Based Learning K-12 and Academic Entrepreneurship.

Alicia Montañez García, EdD, University of Puerto Rico. 2011. Certification in Community Development, Rutgers University, Camden Campus, 2016. Assistant Professor. Leadership and Organizational Change, Culture in Educational Organizations, Strategic Planning, Developing Effective K-12 Learning Contexts, Leadership & Community Development, School Engagement & Governance, Professional Development for Educators, Educational Coaching, Servant Leadership, Higher Education Leadership y exemplary leadership practices in diverse educational settings.

Juan R. Rodríguez-Rivera, EdD, University of Puerto Rico. 2011. Assistant Professor. Administrative and didactic structures to achieve efficiency and effectiveness in educational systems; Systemic school change; Strategic Planning and Organizational Development; Effective leadership to promote changes in organizational culture (schools and organizations with educational programs or projects), Impact of transition between levels

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Possess a Master's degree with a concentration in Leadership in Educational Organizations or Educational Administration and Supervision, or possess a master's degree and have passed the following courses:
 - a. A Course on Research Methods
 - b. A Statistics Course
 - c. A course related to Philosophical or Sociological Foundations of Education at the Baccalaureate or Master's level
2. Have passed the graduate specialty courses with an index of no less than 3.50 or higher on a scale of 4.00
3. Proficiency in Spanish and English
4. Critical Analysis Skills

Documents and other Requirements for the Application for Admission:

1. Application for Admission to Graduate Studies in electronic format through the "ApplyYourself" platform.
2. Two (2) letters of recommendation for Graduate Studies in electronic format or on paper.
3. Two (2) official copies of Baccalaureate and Master's credit transcripts
4. Interview with the faculty of the Area.

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of no less than 3.00 in the courses that are considered for graduation.

PROGRAM OF STUDY:

Plan B - Master's Degree - Doctorate (69 credits)

Program Requirements	Credits
Master's Level Course Area	18
EDUC 6626: Philosophical and Theoretical Foundations of Organizational Leadership	3
EDUC 6521: Administrative Leadership in Education	3
EDUC 6522: Didactic Leadership in Educational Administration	3
EDUC 6665: Strategic Leadership in Educational Organizations	3

Program Requirements	Credits
EDUC 6598: Community and Political Leadership in Educational Organizations	3
EDUC 6670: Administrative Leadership Practices in Elementary, Secondary, and Special Education Schools	3
Qualifying Exam	0
EDUC 6905- Doctoral Qualifying Exam	
General professional area	18
Advanced courses in the philosophical, social, psychological, and legal foundations of education	9
Courses in Research, Statistics, and Evaluation <ul style="list-style-type: none"> EDUC 6400: Research Designs, A Qualitative and a Quantitative Research Course 	9
Specialized professional area	24
Core Courses of the Specialty	18
<ul style="list-style-type: none"> EDUC 8116: Educational Administration as a Philosophy in Praxis 	3
<ul style="list-style-type: none"> EDUC 8016: Organizational and Administrative Theories of Education 	3
<ul style="list-style-type: none"> EDUC 8070: Human Resource Development in Educational Administration 	3
<ul style="list-style-type: none"> EDUC 6524: Financing and Administration of Fiscal Resources in Educational Organizations 	3
<ul style="list-style-type: none"> EDUC 8047: Strategic Planning in Educational Organizations 	3
<ul style="list-style-type: none"> EDUC 8129: Institutional Evaluation, Assessment, and Accountability in the Administration of Education Systems 	3
Specialty Electives	6
Free Electives	6
EDUC 8900 Application Exam	0
Dissertation <ul style="list-style-type: none"> EDUC 8981 Doctoral Dissertation EDUC 8982 Continuation of Doctoral Dissertation 	3
Total Credits	69

Notes:

1. As of March 13, 2012, the Faculty of the Educational Organization Leadership Program agreed that any 6000-level course in the specialty area that is not a core course and has not been taken at the master's level may be taken at the doctoral level as a specialty elective.
2. The required courses were selected so that the student gains knowledge of various areas: statistical analysis, evaluation, instrument development, and qualitative research. If a student took one of the required courses to obtain the second major at INEVA as part of the nine

(9) credits that are required in the LOE Program to complete the research component, the student must select another course, to replace it, among those presented in the document called List courses to meet the 9 credits of the Research component for students admitted as of August 2019, in consultation with their academic advisor.

3. Beginning in January 2008, the Faculty of the Educational Organization Leadership Program will authorize as free electives only those 8000-level courses or those 6000-level courses that have been approved for both levels and are included in the lists below.
4. Students who do not have administrative experience occupying a leadership position in an educational organization, must pass the Doctoral Internship course which has a value of 6 credits.
5. Students who have held a leadership position in the past five years may submit a portfolio of evidence to be evaluated by their academic advisor using a rubric designed for this purpose. If your experience is validated, you will not have to pass the Internship and will be able to enroll in 6 credits in specialty electives among those presented in the document called Options to fulfill the six (6) elective credits in the specialty and the six (6) credits in free electives, in consultation with your academic advisor.
6. Students may enroll up to 6 credits of EDUC. 8995- Specialized Study or EDUC. 6995- Independent study to meet the requirement of specialty electives or free electives (requires authorization from the professor and the Department Directorate-refer to specialized study policy and independent study policy).

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6626 Philosophical and Theoretical Foundations of Organizational Leadership

Three credits. Three hours of lecture a week.

Study and integration of interdisciplinary philosophical frameworks to the analysis of educational organizations, their structure and their sociocultural context. Study and discussion of various organizational and leadership management theories to understand and transform educational organizations.

EDUC 6521 Administrative Leadership in Educational Organizations

Three credits. Three hours of lecture a week.

Study of theories, concepts, processes, and principles related to administrative leadership in education. Development of knowledge, skills and attributes to understand and improve the organization, implement operational plans, manage fiscal resources and apply decentralized administrative processes and procedures towards the achievement of the vision in the institution. Analysis of recent research and its implications for administrative leadership in education.

EDUC 6522 Didactic Leadership in Educational Administration

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Study of the Nature and Functions of Didactic Leadership in Educational Administration. Emphasis on research, controversies, and ethical and legal considerations around instructional leadership.

EDUC 6665 Strategic Leadership in Educational Organizations

Three credits. Three hours of lecture a week.

Studies of theories, concepts, processes and principles related to strategic leadership in education. Development of knowledge, skills and attributes to identify contexts; developing, articulating and implementing, together with others, the vision and purposes of an organization; analyze information, define problems, exercise leadership processes to achieve common goals, and act ethically for educational communities.

EDUC 6598 Community and Political Leadership in Educational Organizations

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

Prerequisite: EDUC 6521 Study of community development models and public relations applied to educational organizations and community education. Analysis of community leadership and the development of emerging paradigms to establish an effective process of relations with the community as a fundamental element for the achievement of the goals and objectives of education. Evaluation of legal provisions, statutes, regulatory standards, appropriate policies, and the relationship of public policy initiatives to the well-being of the community. Face-to-face, hybrid and online course.

EDUC 6670 Educational Leadership Internship I

Three credits. Three hours of lecture a week.

Study of administrative practices applied to elementary, secondary, and special education schools. Emphasis on research/creation for the development of the analysis of an educational context and the preparation of an action plan aimed at addressing the identified needs. Includes a minimum of 15 hours of field experiences.

EDUC 6905: Doctoral Qualifying Exam

Zero credits. Prerequisite: EDUC 6517, EDUC 6509, six credits in the subspecialty, three credits in Fundamentals of Education, three credits in the area of emphasis.

Passing the qualifying exam is required to continue in the continuing program from high school to doctoral (curriculum b) in curriculum and teaching. This program constitutes an accelerated route to the PhD, which is offered to graduate students whose highest degree completion is baccalaureate. The objective is to qualify competencies in aspects of the curriculum; of the subspecialty; of fundamentals of research methods education; and the area of emphasis.

EDUC 8116 Educational Administration as Philosophy in Praxis

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

Philosophical Foundations of Educational Administration and Leadership. Management and leadership as a philosophy in praxis and science. Research of the contributions of historical philosophical currents in the configuration of contemporary educational administration and leadership. Administrative and leadership praxis in the Puerto Rican educational scenario seen from diverse philosophical frameworks. Educational administration and leadership as an ethical project.

EDUC 8016 Organizational and Administrative Theories of Education

Three credits. Three hours of lecture a week.

Study and analysis of the most recent administrative theories and their application to the school setting, considering the sociocultural characteristics and special conditions that affect the particular environment under study.

EDUC 8070 Human Resource Development in Educational Administration

Three credits. Three hours of lecture a week.

Study of the conceptual, ethical, normative and research frameworks in the processes of recruitment, selection, development and evaluation of human resources capable of transforming educational organizations and promoting a culture of peace. Analysis of the integration of technology in these processes. A minimum of 15 hours of field experience will be required.

EDUC 6524 Financing and Administration of Fiscal Resources in Educational Organizations

Three credits. Three hours of seminar per week.

Study of general aspects related to the financing and administration of fiscal resources in educational institutions. Emphasis on competency development and self-management skills for managing finances and budgeting. Analysis of the organization's budget according to its mission, goals, and objectives. Development of an operational budget using technology.

EDUC 8047 Strategic Planning in Educational Organizations

Three credits. Three hours of lecture a week.

Study of concepts, processes, practices and techniques of strategic planning in educational organizations. Analysis of philosophical, structural, and procedural elements that establish the basis of the vision, mission, goals, and objectives that give direction y transform education systems through the study of diverse contexts.

EDUC 8129 Institutional Evaluation, Assessment, and Accountability in the Administration of Educational Systems

Three credits. Three hours of lecture a week.

Study of theoretical perspectives and administrative practices to carry out institutional assessment and learning assessment in a comprehensive manner. Analysis of various theoretical frameworks and formal models for institutional evaluation. Use of innovative

methodologies to develop indicators of institutional competitiveness and social responsibility in education systems. 15 hours of field experience is required.

OTHER COURSE DESCRIPTIONS:

EDUC 6005 Management in Administrative Leadership

Three credits. Three hours of lecture a week.

Prerequisites: Permission from the director of the graduate program Study and critical analysis of the principles that guide management within the administration of the educational enterprise. Application of the fundamentals of school management in the areas of accounting and fiscal resources and finances of educational institutions, data processing, maintenance and control operations, personnel administration, and management development and training techniques.

EDUC 6006 Methods and Techniques of School Supervision

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6521-6522 Study and critical analysis of school supervision methods and techniques; with emphasis on the origin, development, implementation and effectiveness of supervision models and strategies in the classroom as the scenario par excellence where the supervision process is framed. Observation of classes planned, led and supervised by students; using laboratory and simulation techniques such as microteaching
y micro-monitoring.

EDUC 6210 Internship in Educational Leadership- Part II

Three credits. 150 hours of clinical experience.

Prerequisite: Have 21 credits in the Professional Experience major that provides students with meaningful opportunities in a work setting to demonstrate their academic aptitude in applying and building knowledge; practice and develop competencies related to strategic, didactic, administrative, community, ethical, and political leadership in a PK-12 educational center. One hundred and fifty (150) hours of clinical experience and participation in weekly seminars during the semester coordinated by the professor in charge are required.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6527 Contemporary Trends and Practices in Administrative Leadership

Three credits. Three hours of lecture a week.

Extensive selection and discussion of issues and viewpoints. Controversies related to school administration; with emphasis on modern trends and practices that respond to research results and recent experiences.

EDUC 6556 Seminar on Controversial Issues in Educational Leadership

Three to six credits. Six hours of lecture per week.

Prerequisite: EDUC 6521-6522 Study and analysis of the challenges and opportunities facing secondary schools and their impact on the instructional program. Objective examination of the changing role of the school principal. Development of strategies to deal with these problems and conflicts. Emphasis on clinical experiences and case studies. The seminar will have a component in human relations.

EDUC 6598 Community and Political Leadership in Educational Organizations

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

Prerequisite: EDUC 6521 Study of community development models and public relations applied to educational organizations and community education. Analysis of community leadership and the development of emerging paradigms to establish an effective process of relations with the community as a fundamental element for the achievement of the goals and objectives of education. Evaluation of legal provisions, statutes, regulatory standards, appropriate policies, and the relationship of public policy initiatives to the well-being of the community.

EDUC 6618 Educational Leadership in Vocational Education

Three credits. Three hours of lecture a week.

Study and analysis of the theory and practice of vocational educational leadership. Examination of the specific problems faced by the vocational administrator in carrying out his duties in technical-vocational schools. Face-to-face, hybrid and online course.

EDUC 6669 Organizational Culture in Educational Institutions

Three credits. Three hours of lecture a week.

Analysis of the implications of organizational culture for leadership, decision-making and the process of change in educational institutions. Analysis of recent research and its implications for the development of organizational culture in educational institutions. Face-to-face, hybrid and online course.

EDUC 6999 Fieldwork in Educational Leadership

Two to four credits. Two to four hours of lab or lecture per week. Prerequisites: Teacher's Permission.

The student will work independently, with the advice of the teacher, on a project or research related to one of the dimensions of educational leadership.

EDUC 8016 Organizational and Administrative Theories of Education

Three credits. Three hours of lecture a week.

Study and analysis of the most recent administrative theories and their application to the school setting, considering the sociocultural characteristics and special conditions that affect the particular environment under study.

EDUC 8026 Leadership in Educational Administration and Supervision

Three credits. Three hours of lecture a week.

Study of the principles and theories of leadership and their application to supervision at different educational levels. Leadership in educational institutions.

EDUC 8027 Contemporary Practices of Didactic Leadership

Three credits. Three hours of lecture a week.

Study and analysis of practices in the exercise of didactic leadership. Analysis of the leader's competencies to strengthen academic programs.

EDUC 8115 Educational Leadership Internship

Six credits. Three hours of lecture and nine hours of laboratory time per week. Prerequisite: Have been accepted as a doctoral candidate The doctoral internship is a field experience that provides students who specialize in the area of educational administration with the opportunity to conceptualize and apply the theoretical frameworks they have studied in the discipline, with the purpose of developing them as leaders and agents of change in educational systems. The field experience will be complemented by a seminar.

EDUC 8900 Candidacy Examination

Zero credits.

The exam is a requirement for students of the Doctoral Program. It is considered a full load.

EDUC 8981 Doctoral Dissertation

Six credits.

Prerequisite: Have passed the doctoral degree exam. Present a certificate of completion of the information competencies workshop granted by the Gerardo Sellés Solá Library and present evidence of having completed the online module of Responsible Conduct in Research of the CITI program, according to the requirements of certification 029 of 2012-2013 of the UPR-RP administrative board Preparation of the doctoral dissertation, emphasizing the writing of the doctoral proposal and the study of the general procedures for writing a doctoral dissertation. Doctoral dissertation.

EDUC 8982 Continuation of Doctoral Dissertation

Zero credits. This course can be repeated three times.

Prerequisites: All courses leading to a degree in the specialty. It is the last one the student takes; have passed the degree exam.

Continuation of the preparation of the doctoral dissertation, emphasizing the implementation of the research and the writing of the dissertation.



Interim Dean: Dr. Grace Marie Carro Nieves
Director of the Department: Dr. José Soto Sonera
Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi
Educational Leadership Area Coordinator: Dr. María de los A. Ortiz
Phone and extensions: (787) 764-0000, ext. 89205, 89196, 89252, 89253
Portal: <http://ege.uprrp.edu>

DEGREE:

Doctorate in Education with a specialization in Leadership in Educational Organizations Plan C – Doctorate (51 credits)

TEACHERS:

María de los Ángeles Ortiz Reyes, PhD, New York University, 1982, Professor. Program Evaluation and Assessment; higher education; strategic leadership; bullying; institutional research; accountability, institutional effectiveness and accreditation; internationalization of higher education; third mission; Project Based Learning K-12 and Academic Entrepreneurship.

Alicia Montañez García, EdD, University of Puerto Rico. 2011. Certification in Community Development, Rutgers University, Camden Campus, 2016. Assistant Professor. Leadership and Organizational Change, Culture in Educational Organizations, Strategic Planning, Developing Effective K-12 Learning Contexts, Leadership & Community Development, School Engagement & Governance, Professional Development for Educators, Educational Coaching, Servant Leadership, Higher Education Leadership y exemplary leadership practices in diverse educational settings.

Juan R. Rodríguez-Rivera, EdD, University of Puerto Rico. 2011. Assistant Professor. Administrative and didactic structures to achieve efficiency and effectiveness in educational systems; Systemic school change; Strategic Planning and Organizational Development; Effective leadership to promote changes in organizational culture (schools and organizations with educational programs or projects), Impact of transition between levels

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Possess a Master's degree with a concentration in Leadership in Educational Organizations or Educational Administration and Supervision, or possess a master's degree and have passed the following courses:
 - a. A Course on Research Methods
 - b. A Statistics Course
 - c. A course related to Philosophical or Sociological Foundations of Education at the Baccalaureate or Master's level
2. Have passed the graduate specialty courses with an index of no less than 3.50 or higher on a scale of 4.00
3. Proficiency in Spanish and English
4. Critical Analysis Skills

Documents and Other Requirements for the Application for Admission

1. Application for Admission to Graduate Studies in electronic format on the "ApplyYourself" platform.
2. Two (2) letters of recommendation for Graduate Studies in electronic format or on paper.
3. Two (2) official copies of transcripts of Baccalaureate and Master's credits.
4. Interview with the faculty of the Area.

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Río Piedras Campus.
2. Pass courses with a grade of no less than "C".
3. Have an academic index of no less than 3.00 in the courses that are considered for graduation.

PROGRAM OF STUDY:

Plan C – Doctorate (51 credits)

Program Requirements	Credits
General Professional Area	18
Courses in Fundamentals of Education	9
Courses in Research, Statistics, and Evaluation	9
Specialized professional area	24
Core Courses of the Specialty	18
• EDUC 8116: Educational Administration as a Philosophy in Praxis	3

Program Requirements	Credits
• EDUC 8016: Organizational and Administrative Theories of Education	3
• EDUC 8070: Human Resource Development in Educational Administration	3
• EDUC 6524: Financing and Administration of Fiscal Resources in Educational Organizations	3
• EDUC 8047: Strategic Planning in Educational Organizations	3
• EDUC 8129: Institutional Evaluation, Assessment, and Accountability in the Administration of Education Systems	3
Elective Courses in the Specialty Area	6
Free Electives	6
EDUC 8900 Application Exam	0
Dissertation	
• EDUC 8981 Doctoral Dissertation	3
• EDUC 8982 Continuation of Doctoral Dissertation	0
Total Credits	51

Notes:

1. As of March 13, 2012, the Faculty of the Educational Organization Leadership Program agreed that any 6000-level course in the specialty area that is not a core course and has not been taken at the master's level may be taken at the doctoral level as a specialty elective.
2. The required courses were selected so that the student gains knowledge of various areas: statistical analysis, evaluation, instrument development, and qualitative research. If a student took one of the required courses to obtain the second major at INEVA as part of the nine (9) credits that are required in the LOE Program to complete the research component, the student must select another course, to replace it, among those presented in the document called List courses to meet the 9 credits of the Research component for students admitted as of August 2019, in consultation with their academic advisor.
3. Beginning in January 2008, the Faculty of the Educational Organization Leadership Program will authorize as free electives only those 8000-level courses or those 6000-level courses that have been approved for both levels and are included in the lists below.
4. Students who do not have administrative experience occupying a leadership position in an educational organization, must pass the Doctoral Internship course which has a value of 6 credits.
5. Students who have held a leadership position in the past five years may submit a portfolio of evidence to be evaluated by their academic advisor using a rubric designed

for this purpose. If your experience is validated, you will not have to pass the Internship and will be able to enroll in 6 credits in specialty electives among those presented in the document called Options to fulfill the six (6) elective credits in the specialty and the six (6) credits in free electives, in consultation with your academic advisor.

6. Students may enroll up to 6 credits of EDUC. 8995- Specialized Study or EDUC. 6995- Independent study to meet the requirement of specialty electives or free electives (requires authorization from the professor and the Department Directorate-refer to specialized study policy and independent study policy).

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 8116 Educational Administration as Philosophy in Praxis

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

Philosophical Foundations of Educational Administration and Leadership. Management and leadership as a philosophy in praxis and science. Research of the contributions of historical philosophical currents in the configuration of contemporary educational administration and leadership. Administrative and leadership praxis in the Puerto Rican educational scenario seen from diverse philosophical frameworks. Educational administration and leadership as an ethical project.

EDUC 8016 Organizational and Administrative Theories of Education

Three credits. Three hours of lecture a week.

Study and analysis of the most recent administrative theories and their application to the school setting, considering the sociocultural characteristics and special conditions that affect the particular environment under study.

EDUC 8070 Human Resource Development in Educational Administration

Three credits. Three hours of lecture a week.

Study of the conceptual, ethical, normative and research frameworks in the processes of recruitment, selection, development and evaluation of human resources capable of transforming educational organizations and promoting a culture of peace. Analysis of the integration of technology in these processes. A minimum of 15 hours of field experience will be required.

EDUC 6524 Financing and Administration of Fiscal Resources in Educational Organizations

Three credits. Three hours of seminar per week.

Study of general aspects related to the financing and administration of fiscal resources in educational institutions. Emphasis on competency development

and self-management skills for managing finances and budgeting. Analysis of the organization's budget according to its mission, goals, and objectives. Development of an operational budget using technology.

EDUC 8047 Strategic Planning in Educational Organizations

Three credits. Three hours of lecture a week.

Study of concepts, processes, practices and techniques of strategic planning in educational organizations. Analysis of philosophical, structural, and procedural elements that establish the basis of the vision, mission, goals, and objectives that give direction y transform education systems through the study of diverse contexts.

EDUC 8129 Institutional Evaluation, Assessment, and Accountability in the Administration of Educational Systems

Three credits. Three hours of lecture a week.

Study of theoretical perspectives and administrative practices to carry out institutional assessment and learning assessment in a comprehensive manner. Analysis of various theoretical frameworks and formal models for institutional evaluation. Use of innovative methodologies to develop indicators of institutional competitiveness and social responsibility in education systems. 15 hours of field experience is required.

EDUC 8900 Candidacy Examination

Zero credits.

The exam is a requirement for students of the Doctoral Program. It is considered a full load.

EDUC 8981 Doctoral Dissertation

Six credits.

Prerequisite: Have passed the doctoral degree exam. Present a certificate of completion of the information competencies workshop granted by the Gerardo Sellés Solá Library and present evidence of having completed the online module of Responsible Conduct in Research of the CITI program, according to the requirements of certification 029 of 2012-2013 of the UPR-RP administrative board Preparation of the doctoral dissertation, emphasizing the writing of the doctoral proposal and the study of the general procedures for writing a doctoral dissertation. Doctoral dissertation.

EDUC 8982 Continuation of Doctoral Dissertation

Zero credits. This course can be repeated three times.

Prerequisites: All courses leading to a degree in the specialty. It is the last one the student takes; have passed the degree exam.

Continuation of the preparation of the doctoral dissertation, emphasizing the implementation of the research and the writing of the dissertation.

OTHER COURSE DESCRIPTIONS:

EDUC 6005 Management in Administrative Leadership

Three credits. Three hours of lecture a week.

Prerequisites: Permission from the director of the graduate program Study and critical analysis of the principles that guide management within the administration of the educational enterprise. Application of the fundamentals of school management in the areas of accounting and fiscal resources and finances of educational institutions, data processing, maintenance and control operations, personnel administration, and management development and training techniques.

EDUC 6006 Methods and Techniques of School Supervision

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6521-6522 Study and critical analysis of school supervision methods and techniques; with emphasis on the origin, development, implementation and effectiveness of supervision models and strategies in the classroom as the scenario par excellence where the supervision process is framed. Observation of classes planned, led and supervised by students; using laboratory and simulation techniques such as microteaching
y micro-monitoring.

EDUC 6210 Internship in Educational Leadership- Part II

Three credits. 150 hours of clinical experience.

Prerequisite: Have 21 credits in the Professional Experience major that provides students with meaningful opportunities in a work setting to demonstrate their academic aptitude in applying and building knowledge; practice and develop competencies related to strategic, didactic, administrative, community, ethical, and political leadership in a PK-12 educational center. One hundred and fifty (150) hours of clinical experience and participation in weekly seminars during the semester coordinated by the professor in charge are required.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6521 Administrative Leadership in Educational Organizations

Three credits. Three hours of lecture a week.

Study of theories, concepts, processes, and principles related to administrative leadership in education. Development of knowledge, skills and attributes to understand and improve the organization, implement operational plans, manage fiscal resources and apply decentralized administrative processes and procedures towards the achievement of the vision in the institution. Analysis of recent research and its implications for administrative leadership in education.

EDUC 6522 Didactic Leadership in Educational Administration

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Study of the Nature and Functions of Didactic Leadership in Educational Administration. Emphasis on research, controversies, and ethical and legal considerations around instructional leadership.

EDUC 6527 Contemporary Trends and Practices in Administrative Leadership

Three credits. Three hours of lecture a week.

Extensive selection and discussion of issues and viewpoints. Controversies related to school administration; with emphasis on modern trends and practices that respond to research results and recent experiences.

EDUC 6556 Seminar on Controversial Issues in Educational Leadership

Three to six credits. Six hours of lecture per week.

Prerequisite: EDUC 6521-6522 Study and analysis of the challenges and opportunities facing secondary schools and their impact on the instructional program. Objective examination of the changing role of the school principal. Development of strategies to deal with these problems and conflicts. Emphasis on clinical experiences and case studies. The seminar will have a component in human relations.

EDUC 6598 Community and Political Leadership in Educational Organizations

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

Prerequisite: EDUC 6521 Study of community development models and public relations applied to educational organizations and community education. Analysis of community leadership and the development of emerging paradigms to establish an effective process of relations with the community as a fundamental element for the achievement of the goals and objectives of education. Evaluation of legal provisions, statutes, regulatory standards, appropriate policies, and the relationship of public policy initiatives to the well-being of the community. Face-to-face, hybrid and online course.

EDUC 6618 Educational Leadership in Vocational Education

Three credits. Three hours of lecture a week.

Study and analysis of the theory and practice of vocational educational leadership. Examination of the specific problems faced by the vocational administrator in carrying out his duties in technical-vocational schools. Face-to-face, hybrid and online course.

EDUC 6626 Philosophical and Theoretical Foundations of Organizational Leadership

Three credits. Three hours of lecture a week.

Study and integration of interdisciplinary philosophical frameworks to the analysis of educational organizations, their structure and their sociocultural context. Study and discussion of various organizational and leadership management theories to understand and transform educational organizations.

EDUC 6665 Strategic Leadership in Educational Organizations

Three credits. Three hours of lecture a week.

Studies of theories, concepts, processes and principles related to strategic leadership in education. Development of knowledge, skills and attributes to identify contexts; developing, articulating and implementing, together with others, the vision and purposes of an organization; analyze information, define problems, exercise leadership processes to achieve common goals, and act ethically for educational communities.

EDUC 6669 Organizational Culture in Educational Institutions

Three credits. Three hours of lecture a week.

Analysis of the implications of organizational culture for leadership, decision-making and the process of change in educational institutions. Analysis of recent research and its implications for the development of organizational culture in educational institutions. Face-to-face, hybrid and online course.

EDUC 6670 Educational Leadership Internship I

Three credits. Three hours of lecture a week.

Study of administrative practices applied to elementary, secondary, and special education schools. Emphasis on research/creation for the development of the analysis of an educational context and the preparation of an action plan aimed at addressing the identified needs. Includes a minimum of 15 hours of field experiences.

EDUC 6999 Fieldwork in Educational Leadership

Two to four credits. Two to four hours of lab or lecture per week. Prerequisites:

Teacher's Permission.

The student will work independently, with the advice of the teacher, on a project or research related to one of the dimensions of educational leadership.

EDUC 8016 Organizational and Administrative Theories of Education

Three credits. Three hours of lecture a week.

Study and analysis of the most recent administrative theories and their application to the school setting, considering the sociocultural characteristics and special conditions that affect the particular environment under study.

EDUC 8026 Leadership in Educational Administration and Supervision

Three credits. Three hours of lecture a week.

Study of the principles and theories of leadership and their application to supervision at different educational levels. Leadership in educational institutions.

EDUC 8027 Contemporary Practices of Didactic Leadership

Three credits. Three hours of lecture a week.

Study and analysis of practices in the exercise of didactic leadership. Analysis of the leader's competencies to strengthen academic programs.

EDUC 8115 Educational Leadership Internship

Six credits. Three hours of lecture and nine hours of laboratory time per week. Prerequisite: Have been accepted as a doctoral candidate The doctoral internship is a field experience that provides students who specialize in the area of educational administration with the opportunity to conceptualize and apply the theoretical frameworks they have studied in the discipline, with the purpose of developing them as leaders and agents of change in educational systems. The field experience will be complemented by a seminar.



Interim Dean: Dr. Grace Marie Carro Nieves
Director of the Department: Dr. José Soto Sonera
Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi
Guidance and Counseling Area Coordinator: Dr. Carmen Rosado Pacheco **Phone and extensions:** (787) 764-0000, ext. 89205, 89196, 89203, 89253
Portal: <http://ege.uprrp.edu/>

DEGREE: Master's Degree in Education with a specialty in Guidance and Counseling

TEACHERS:

Ariel Agosto Cepeda, PhD, Michigan State University. 2009. Assistant Professor. Gay identity development; LGBT issues; Human sexuality. Other areas of interest include: Clinical supervision; and Ethical Virtues.

Rosy Fernández García Menocal, PhD, University of Michigan-Ann Arbor, 1992, Associate Professor. Research methodology; interpersonal relations; behavior modification; cognitive behavioral models; violence and aggressive behavior; group counseling; stress; spirituality; women's counseling; counseling education, multicultural counseling.

Carmen M. Rosado Pacheco, Ed.D, University of Puerto Rico, 1996, Associate Professor. Emerging Issues in Counseling, Individual Counseling, Occupational Counseling in Childhood, Occupational Counseling, Impact Therapy, Ethical-Legal Professional Issues, Theoretical Models in Counseling.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Baccalaureate or its equivalent
2. Academic index of 3.00 on a scale of 4.00
3. Two courses related to human behavior, preferably in human development and personality theory
4. Essay on interest in pursuing graduate studies in Guidance and Counseling
5. Individual Interview
6. Proficiency in Spanish and English

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Rio Piedras Campus
2. Pass the courses of the specialty with a grade of no less than "B" and obtain a grade of no less than "C" in the other courses
3. Have an academic average of no less than 3.00 in the courses that are considered for graduation

PROGRAM OF STUDY:

Program Requirements	Credits
Required Specialty Courses	18
EDUC 6110- Evaluation in the Counseling Process	3
EDUC 6360- Group Counseling	3
EDUC 6539- Occupational Counseling	3
EDUC 6310- Theory and Practice of Counseling	3
EDUC 6320- <i>Practicum</i> in Counseling I	6
Required Courses in Research	6
EDUC 6509- Research Methods in Education	3
EDUC 6390 – Applied Statistics in Education	3
Electives in Counseling	6
Free elective	3
EDUC 6900 Degree Exam	0
Thesis	
EDUC 6511 Thesis EDUC 6512	6
Continuation Thesis	0
Total Credits	39

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 6110 Evaluation in the Counseling Process

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Introductory course in the use of tests and other assessment techniques in the counseling process. It includes data collection, interpretation and organization of information, and its integration into counseling processes.

EDUC 6360 Group Counseling

Three credits. Three hours of lecture a week.

Group activities in orientation including: dissemination of information, home room, vocational selection, discussion of test results, group dynamics, personal orientation in groups and others. The content of the course will vary according to the type of clients with whom the student advisor may work. Emphasis will be given to the theory and practice of group counseling in educational and other settings.

EDUC 6539 Occupational Counseling

Three credits. Three hours of lecture a week.

Prerequisite: EDUC6110, EDUC6310 Study and proposal of new theoretical and practical trends in the design and implementation of interventions to promote occupational development. Critical analysis of occupational counseling research, programs, and services in employment and human resource preparation scenarios. Group psychoeducational field experience in the school setting.

EDUC 6310 Counseling Theory and Practice

Three credits. Three hours of lecture a week.

Introduction to the principles and processes of personal counseling with emphasis on the integration of the theory and practical application of personal counseling. The Various Theories and schools of thought related to personal counseling. Controversial points in orientation. Practice in personal counseling using role-plays, demonstrations, interview recordings, and interview and case analysis.

EDUC 6320 *Practicum* in Orientation I

Six credits. Fifteen hours of practice and three hours of seminar per week. Prerequisite: EDUC 6310 or equivalent Supervised experiences in real-world situations with an emphasis on personal guidance. The future counsellor has the opportunity to use the theories and concepts he or she has acquired, allowing him or her to examine his or her attitudes, skills and knowledge. Provides opportunities for personal and professional growth through ongoing self-assessments, one-on-one interviews, and seminars

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6390 Applied Statistics in Education I

Three credits. Three hours of lecture a week.

Application of various statistical analyses in education, with emphasis on their assumptions, justification, computer data processing, and interpretation of results. Includes frequency distributions with its measures of central tendency and variability, probability distributions, correlation (parametric and non-parametric), regression, and hypothesis testing (z, t, Chi-squared, and one-way ANOVA). Computer use is required. Face-to-face, hybrid and online course.

EDUC 6511 Master's Thesis or Project

Three to six credits. Contact hours by arrangement.

Prerequisites: Have Passed the Master's Degree Exam (if applicable). Submit a certificate of completion of the information competency workshop granted by the Gerardo Selles Solá Library, and present evidence of having completed the online module on responsible conduct in research of the CITI program, according to the requirements of Certification 029 (202-2013) of the UPR Administrative Board.

Preparation of a thesis or master's project, emphasizing the proposal and the study of the procedures for writing the thesis or project.

EDUC 6512 Continuation of Thesis or Master's Project

No credit. Three hours of lecture a week.

Prerequisite: EDUC 6511 Continuation of the preparation of the thesis or master's project, emphasizing the conduct of the research or project and its defense.

OTHER COURSE DESCRIPTIONS:**EDUC 6065 Guidance and Counseling of Adults and the Elderly**

Three credits. Three hours of lecture a week.

Exhaustive study of the literature and research on the developmental tasks of adults and the elderly. The course provides the student with the opportunity to develop new counseling and consulting skills to help Puerto Ricans who are going through these evolutionary stages.

EDUC 6066 Human Sexuality and the Counseling Process

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the Director Intensive analysis of the literature and scientific research on human sexuality and its implications in the process of orientation and counseling, framed in the context of the Puerto Rican reality.

EDUC 6067 Guidance and Counseling for Persons with Disabilities

Three credits. Three hours of lecture a week.

Techniques and strategies for the guidance and counseling of individuals with disabilities in the educational environment.

EDUC 6070 Women's Counseling

Three credits. Three hours of lecture a week.

A broad vision of the social changes that have occurred and their consequences in relation to the roles of contemporary women. The psychological effects of these changes will be analysed. The general theoretical frameworks of Guidance and Counseling, their suitability and applicability for contemporary women and new intervention strategies for today's women will be discussed.

EDUC 6075 Career Guidance and Counseling at the Elementary Level

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The application of knowledge of general guidance to the elementary level with special interest in the relevant foundations, principles, and issues, and the development of special skills for measurement, intervention, and scientific evaluation in the management of the elementary level student and his or her school and family environment.

EDUC 6076 Adolescence

Three credits. Three hours of lecture a week.

Critical examination of theories and research related to adolescent development, behavior, and issues, including the special needs population. Educational and social programs for the adolescent population are evaluated.

EDUC 6077 Seminar on Interview Processes and Techniques in Counseling

Three credits. Three hours of seminar per week.

Analysis of the literature concerning the means of interviews. Concepts, techniques, and ethical issues related to the interview in the counseling process. Practice the different modalities to conduct interviews with diverse populations and in multiple scenarios.

EDUC 6078 Human Development Through the Life Cycle: Implications for Counseling

Three credits. Three hours of seminar per week.

Study and evaluation of theories of human development including physical, cognitive, social-emotional, moral, and cultural perspectives throughout the life cycle. Integration of concepts from theoretical perspectives which serve as a framework in the counseling process.

EDUC 6165 Introduction to Counseling Research

Three credits.

Prerequisite: Authorization from the academic advisor Study of the theoretical, philosophical, and sociocultural foundations of research in the field of professional counseling. The ethical, legal and professional principles particular to research in the field of counseling will be emphasized in accordance with professional developments.

EDUC 6175 Administration of Student Support Services Programs

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

Study of literature and research related to the creation, planning, administration, development, and integration of programs and services for the personal and academic development of students in educational institutions. Analysis of the accountability of student support programs and services such as guidance and counseling, social work, sports, health, and others. Analysis of ways to create a positive culture that promotes student learning, collaboration with community agencies that integrate services that affect students, and the development of an awareness to address individual differences and special needs.

EDUC 6207 Introduction to School Counseling

Three credits. Three hours of lecture a week.

Study of the fundamentals and trends of professional school counseling. Emphasis on the development and implementation of comprehensive school counseling programs at all levels of education in the primary areas of work (personal, occupational, and academic) of the career counselor. Discussion of the historical and contemporary context, the functions of the professional as: counselor, leader, collaborator, advocate (advocate) and agent of change application of ethical-legal principles and considerations.

EDUC 6230 Education, Stratification and Social Mobility

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The Social Phenomenon of Stratification and Mobility in Relation to Educational Problems. The concepts of social structure and processes reviewed and discussed as reference material.

EDUC 6268 Seminar on Biographical Research in Education

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6400 or EDUC 6513 In-depth study of biography as a research design that allows addressing educational problems, phenomena and processes to address the educational problems of Puerto Rican society, from a biographical perspective. Critical analysis of related literature and development of competencies to carry out biographical studies.

EDUC 6270 Social Psychology of Education

Three credits. Three hours of lecture a week.

Consideration of the structure, function, and process of education, from the point of view of social psychology, with emphasis on recent research.

EDUC 6315 Adlerian Counseling

Three credits. Three hours of discussion a week.

Prerequisite: EDUC 6310 Study of intervention strategies and techniques in aid processes, according to the theoretical principles proposed by Alfred Adler and his followers. It includes case analysis, design of action plans, dramatization and real practices.

EDUC 6316 Counseling and Spirituality

Three hours. One hour of lecture, one hour of discussion, and one hour of research per week.

Prerequisite: EDUC 6310 Theoretical, research, and applied approaches of counseling to the component of the spiritual dimension of human beings are contrasted. The role of this component in development, spiritual harmony, and the management of conflicts, situations, and decision-making that confront human beings throughout the life cycle is examined and discussed.

EDUC 6330 Seminar on Educational Research

Three credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: EDUC 6400 Educational research workshop that provides hands-on experience combined with discussions on the planning and development of the different phases of a research project. The course allows students to see in the field the problems that may be encountered in the development of a research: administrative, personnel, interagency relations problems, among others.

EDUC 6340 Theory of Measurement I

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6405 Study of classical and modern theory underlying the development and use of measurement instruments in education and psychology.

EDUC 6350 Adult Psychology and Learning.

Three credits. Three hours of lecture a week.

Description and analysis from the beginning of adulthood to the years of senescence with special emphasis on the relationship between adult behavior and learning processes.

EDUC 6400 Research Designs

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6390, EDUC 6509 Study, analysis and elaboration of quantitative and qualitative research designs in education. Emphasis on maximizing the validity or credibility of different designs, discussion, and analysis of research that illustrates different types of designs. Course offered face-to-face, hybrid and online.

EDUC 6401 Ethical, Legal and Professional Issues in Counseling

Three credits. An hour and a half of lecture, half an hour of discussion and an hour of workshop.

Analysis of critical professional issues in counseling with emphasis on the ethical and legal standards of practice and the challenges for the 21st century.

EDUC 6405 Applied Statistics in Education II

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6390 Application of various inferential statistical analyses in education with emphasis on their assumptions, their justification, the processing of the data and the interpretation of the results. It includes sampling, analysis of variance and covariance, nonparametric hypothesis testing, correlation, and simple and multiple linear regression. Attention is given to the use of computerized statistical programs to perform these analyses.

EDUC 6415 Action Research in Educational Contexts

Three credits. Three hours of discussion a week.

Study of the epistemological, evaluative and theoretical foundations of action research, as well as its methods and techniques. Emphasis is placed on linking research and action in order to improve teaching-learning processes and solve problems in educational contexts. It includes practice in the planning, execution and dissemination of studies of this type. Face-to-face, hybrid and online course.

EDUC 6431 Advanced Methods of Statistics in Education

Prerequisite: EDUC 6390 It is a continuation within the same line of analytical and theoretical development of the EDUC 6390 course. It covers the probability of statistical decisions, sampling and experimentation theories and methods, covariance, correlation, multiple regression, discriminant functions, and factor analysis, and nonparametric methods.

EDUC 6445 Psychopathology, Human Development and Counseling

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6310.

Introductory course on psychopathology and human development as a function of the counseling process. The mental conditions with the highest incidence and their manifestation in the different stages of human development will be studied. Recent theories and research on mental conditions and relevant intervention strategies will be discussed. Emphasis will be placed on the knowledge that the counselor and professional counseling must demonstrate about such mental conditions.

EDUC 6455 Child Abuse Among the General and Exceptional Population

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

It discusses human rights principles and the laws that protect minors in the country and the criminalization of abuse. Factors that increase the risk of maltreatment in the general and exceptional population and the implications of various conditions with respect to maltreatment are addressed. Intervention models used in Puerto Rico and some prevention and education programs are discussed. Opportunities are provided to familiarize themselves with the work of child protection professionals and how educators in general and special education educators in particular can contribute to reducing the incidence of maltreatment by collaborating on prevention and intervention.

EDUC 6460 Seminar on School Law in Puerto Rico Three credits. Six hours of lecture per week.

Discussion and analysis of school laws, regulations of the Department of Education, and decisions of Puerto Rico applicable to specific situations of special interest to students.

EDUC 6465 Representations of Puerto Rican Personality

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6310 A vision of the conjugation of historical-geographical-sociocultural aspects in the formation of the Puerto Rican personality is offered and discussed.

Contemporary research and its implications for education and counseling are analyzed, discussed, and conducted.

EDUC 6501 Advanced Fundamentals of Education I

Three credits. Three hours of lecture a week.

Study of educational problems from the perspective of the contributions of various disciplines related to the fundamentals of education. Analysis of various philosophical, sociological and psychological currents in their interconnection and in response to specific problems faced by education at the local and international level. Special attention to the constitution of subjectivities and the participation of educational institutions in this process.

EDUC 6502 Advanced Course in Fundamentals of Education II

Three credits. Three hours of lecture a week.

An advanced analytical study of the human being: his origin, his nature, his mental processes and his personality. In the first place, an objective and scientific analysis will be made of the theory of the evolution of species, of the different psychological and philosophical conceptions of the nature of man, and of the main theories of knowledge. Then, with the fundamentals acquired, a study of the individual personality and the personality of the teacher will be made in the formation and transformation of these personalities.

EDUC 6503 Education of Contemporary Society

Three credits. Three hours of lecture a week.

Analysis of the socio-economic factors affecting the demand, growth and development of education in certain cultural areas. Emphasis on Latin America, Africa, Europe, the United States of America and Russia.

EDUC 6507 Education and the Social Order

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The study of the school as a social institution and its relationship to other aspects of society. Special emphasis will be given to the application of general theory to Puerto Rican society and to the education and critical evaluation of recent research.

EDUC 6510 The Philosophy of John Dewey

Three credits. Three hours of lecture a week.

Various aspects of John Dewey's thought: the evolution from absolutism to experimentalism of Dewey's thought, the theory of knowledge (with special emphasis in his book *LOGIC: The Theory of Inquiry*), Dewey's theory of art (with emphasis in his book *Art as Experience*), his theory of society, politics, and law (with special emphasis in the following books: *Human Nature and Conduct*, *Reconstruction in Philosophy*, and *The Public and its Problems*). Other aspects of his thinking will be discussed, such as: ethics, religion, valuation theory, experiential theory, psychology, history, school, and education.

EDUC 6513 Seminar: Qualitative Research in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6509 or its equivalent Critical analysis of the theoretical foundations, models and contributions of qualitative research to the study and understanding of educational problems. Study of the epistemological paradigms and assumptions that underpin qualitative research approaches and methodologies. Development of competencies in the preparation of research proposals. Face-to-face, hybrid and online course.

EDUC 6515 Field Experience in Educational Research and Evaluation

Three credits. Six hours of lab per week.

Prerequisite: EDUC6400 and approval from the instructor offering the course.

Field experience in the different steps that make up the research or evaluation process. The student must accumulate a minimum of 90 hours in this supervised internship. This experience is gained by participating in a recognized research center or in collaboration with faculty-led research projects or conducting program evaluations in the community or in agencies. It can be taken up to 2 times (6 credits).

EDUC 6529 Cultural Deprivation, Family Dynamics and Education in Puerto Rico

Three credits. Three hours of lecture a week.

Study and analysis of patterns of experiences or life of social classes from the sociocultural point of view and in relation to family dynamics; using socialization processes as a connection between one frame of reference and another. The case study will serve as illustrative material. Psychosocial studies and analyses will be related to learning problems with special attention to those of students with cultural deprivation.

EDUC 6537 Introduction to Guidance and Counseling

Three credits. Three hours of lecture a week.

Philosophy, basic principles and practices of the orientation program. Tools and techniques that can be used in a helping relationship. Various scenarios in which counselling services are offered. Use of community resources.

EDUC 6538 Study of New Research Skills and Theories of Learning

Two credits. Two hours of lecture per week.

It includes the study of theories, methods, and strategies and the findings of the most recent research related to the process of teaching and learning.

EDUC 6545 *Practicum* in Orientation II

Three credits. Fifteen hours of practice and three hours of seminar per week. Prerequisite: EDUC 6320 Intense experiences in personal counseling under supervision. Emphasis on the interpersonal factors of the relationship and the counselor's self-understanding.

EDUC 6547 Seminar on Socioeconomic Changes in Latin America and their Consequences on Education

Three credits. Three hours of lecture a week.

The purpose of this seminar is to demonstrate the close relationship between socio-economic changes and the development of their educational system. As an example of this relationship, the prevailing situations in Latin America are used.

EDUC 6549 Seminar on Recent Trends in Guidance

Three credits. Three hours of lecture a week.

Recent trends, procedures, and innovative ideas that are having or promise to have a major impact on the field of guidance and related activities.

EDUC 6550 History of Pedagogical Ideas in Puerto Rico, Nineteenth and Twentieth Centuries

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005 or its equivalent Research and discussion of the pedagogical ideas that have guided the educational system in Puerto Rico from the nineteenth century to the present. It begins with an overview of the state of education in Latin America during the nineteenth century. This overview includes the analysis of philosophical and educational trends during the nineteenth century and compares them with the orientation of education in the Spanish colonial era. In the case of Puerto Rico, the contribution to history of pedagogical ideas made by teachers and thinkers, such as Baldorioty, Tapia, Eugenio Mar de Hostos and others, stands out. The 20th century in Puerto Rico is analyzed in terms of the encounter of Anglo-Saxon culture with Hispanic and Puerto Rican culture. The course studies the management of the commissioners and secretaries of public instruction and rectors of the University of Puerto Rico, specifically the ideas that have served as educational policy in our education system during the present century

EDUC 6551 Seminar on Research and Creation in Curriculum and Teaching

Three credits. Three hours of seminar per week.

Prerequisites: Have passed the subject exam.

Integrative experience through which the student demonstrates his/her research and creation competencies in curriculum and teaching. This experience revolves around the student's academic and professional interests.

EDUC 6555 Sociological Analysis of the School as an Institution

Three credits. Three hours of lecture a week.

The school as a social institution; the roles played by different people in the educational process: interrelation of roles; etiology and role conflict. The social structure of the school and its effect on communication, learning, and leadership. School and community relationships and their impact on the operation of the school. Study of the most recent research.

EDUC 6561 Seminar: Reading and Research on Educational Problems

Six credits. Three hours of lecture and three hours of lab per week. Prerequisite: Have passed a minimum of twenty credits of graduate study independent study of a topic or problem selected by the student with the approval of the professor or panel of professors in charge. It will require intense reading and experimental work, when necessary. The student is required to appear periodically to present oral reports on the progress of his/her work. At the end, you will submit a written paper.

EDUC 6575 Intervention Programs

Three credits. Three hours of lecture a week.

This course will present a series of intervention programs with children used in different parts of the world (I.R., Latin America, United States, Africa and Europe) from a variety of perspectives: nutrition, education, cognitive development, recreation, motor development and others. The programmes will be analysed from a critical point of view, taking into account their objectives, implementation, as well as the socio-cultural context in which they are developed. The course will focus on ways to evaluate the effectiveness of intervention programs.

EDUC 6579 Education, Urbanization and Urban Ecology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree This course is offered to teachers, school administrators, supervisors, counselors, social workers, and other school personnel who need a basic understanding of the social structure and processes in the metropolitan-urban social environment. A study will be made of the needs, problems and educational opportunities in relation to the changing ecology of the city and the development of metropolitan areas with specific reference to Puerto Rico. The main aspects of the course are: urban ecology; the process and impact of urbanization; personal adjustment in the city; and urban renewal planning. Observations and field studies will be carried out in various urban and suburban areas, in the model city project, and in several projects of the urban renewal and housing corporation.

EDUC 6580 Introduction to Quantitative Techniques in Educational Research

No credit. 15 lecture hours per semester.

This course will familiarize students with the essential elements of techniques related to quantitative information for research projects in the field of education. The course will cover the basic statistical methods necessary for research and will also include an understanding of pedagogical research concepts and procedures, problem formulation and documentation. Students will be provided with practical exercises that familiarize them with common computational procedures for educational research.

EDUC 6586 Evaluation Theory and Methodology

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6390 and 6509 Study of evaluation as a type of specialized research. It includes the critical analysis of the main models, their epistemological and methodological bases. Development of basic skills for planning and implementing evaluations

EDUC 6587 Young Adult Psychology

A credit. Three hours of lab time a week.

Psychosocial and educational derivations of the problems, satisfactions, hopes, struggles, anxieties, encounters, frustrations, conflicts, attitudes, etc. that arise (and with which we

must struggle) in the process of becoming a balanced, sensitive, alert adult, who accepts himself as he is, with a minimum of conflicts. In an adult who can fulfill and function in the emerging social order.

EDUC 6588 Writing and Style in Technical Research Language

Three credits. Three hours of lecture a week.

The purpose of this course is to develop skills in the use of written language for research. It will emphasize the structure, tone and style of research papers with application to the preparation of dissertations, monographs, reports and theses.

EDUC 6589 Systematic Analysis of Instruction

Three credits. Three hours of lecture a week.

The course provides participants with the knowledge, skills, and attitudes to apply the systematic analysis approach to the improvement of instruction. It gives special attention to the preparation of instructional modules by applying the following basic components: writing of operational objectives, content selection, assessment techniques (pre- and post-assessment), selection and preparation of materials, modes of instruction. It offers the opportunity to design and produce curricular material, applying the different techniques to individualize learning. Participation in the systematic analysis of courses and planning for the most effective use of technology in the learning process.

EDUC 6597 Construction of Measuring Instruments

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

Prerequisites: EDUC 6390 Study of the basic theory and main systematic methods for constructing various measuring instruments. Includes hands-on experience in developing them.

EDUC 6609 The Educational Philosophy of Eugenio María de Hostos

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

Prerequisites: Be a graduate student of documentary research, analysis and interpretation of the educational philosophy of Eugenio María de Hostos in order to derive recommendations applicable to Puerto Rican educational work.

EDUC 6615 Vocational and Technical Education: Principles and Practices.

Three credits. Three hours of lecture a week.

Analysis of the development of vocational education with special attention to its projections and implications in the preparation of personnel for the world of work.

EDUC 6616 Multicultural Counseling

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

Exploration of issues pertinent to multicultural counseling related to relevant knowledge and research integrating the personal beliefs, attitudes, and skills of the helping professional. It includes issues related to social justice and *advocacy* that serve as a reference in counseling processes.

EDUC 6617 Curriculum Development in Vocational Education

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director Analysis and application of curricular models for vocational education including its parts. Emphasis on competency-based curricular models.

EDUC 8005 Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director of the Doctoral Program Empirical and Theoretical Foundations of Cognitive Processes. Detailed analysis of thinking, knowledge, reasoning, problem-solving, and conceptual learning.

EDUC 8006 Society and Education

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Study of Sociological Theories of Education. Analysis of discourses and debates around current problems of education from their philosophical, historical, social, cultural and economic perspectives. Emphasis on contemporary macro-social issues and their impact on education. Research on social problems and challenges facing contemporary education.

EDUC 8009 Learning Theories

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Critical analysis of the assumptions, principles, and logic of the major learning theories and of the scientific methodology used by the theorists. Implications of these theories for curriculum development and teaching.

EDUC 8010 Society, Culture and Education in the Caribbean

Three credits. Three hours of lecture a week.

Critical analysis of research in the Caribbean area, focusing on studies of specific regions and countries of the Caribbean basin. The emphasis is on analysing cultural, socio-economic and political realities and trends as they relate to education.

EDUC 8015 Seminar on Pragmatism, Existentialism and Personal Knowledge

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6501-6502 Examination of the three approaches that explain human reality, but which constitute mutually exclusive perspectives. It analyzes each of these perspectives in relation to unresolved issues in the fields of philosophy, social sciences, and education. Each of these perspectives seems to be "valid" and will have to be studied by reading scholars in the field.

EDUC 8017 The Role of the Counselor in Behavior Modification Situations)

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6360 Analysis and application of intervention models for behavior modification. Emphasis is placed on the development and strengthening of behavior that is considered appropriate in group dynamics.

EDUC 8018 Comparative Correlational and Causal Research

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6509, EDUC 6390 Study and development of non-experimental quantitative research in education, specifically comparative correlational and causal studies, both cross-sectional and longitudinal. Emphasis on the study of its essential and methodological characteristics. It includes hands-on experience, use of technology, and preparation of research reports.

EDUC 8019 Research in Guidance and Counseling

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6539 Critical analysis of research in the field of guidance and counseling and its application in our circumstance.

EDUC 8020 Experimental Research in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6405 Theory and Practice in the Design, Analysis, and Interpretation of Experimental and Quasi-Experimental Research. Critical review of methodological aspects in the planning and conduct of experimental research in educational settings.

EDUC 8025 Ethical Perspective of Childhood and Education

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

Analysis of childhood from constructivist and naturalistic perspectives. Exploration of the issue of children's rights in modernity based on the naturalism of J.J. Rousseau and the ethics of E. Kant. Analysis of the applicability of the concepts of freedom, democracy, authority and punishment in the light of the effectiveness of Socratic ethical precepts.

EDUC 8035 Controversial Aspects in Guidance and Counseling

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director Critical analysis of controversial aspects in the field of guidance and counseling. Emphasis on relevant literature and research.

EDUC 8037 Guidance Techniques and Strategies at the Secondary and Postsecondary Level

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8035 and EDUC 8036 Study and critical analysis of guidance techniques and strategies and their application to high school and college-level students. Special importance is given to individual and group counseling processes and techniques that facilitate these processes of help with clients who present problems of an occupational, academic, personal and interpersonal relationship nature.

EDUC 8038 Introduction to Family Counseling

Three credits. Three hours of lecture a week.

The historical background, philosophical underpinnings, and various models of family counseling or therapy will be studied. The different theoretical approaches are evaluated in order to determine their applicability to Puerto Rican culture. Special attention will be given to the use of the models discussed in class to intervene in conflict or crisis.

EDUC 8039 Techniques and Strategies Guidance at the Preschool, Elementary and Intermediate Levels

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 8019, EDUC 8025 and EDUC 8036 Critical analysis of the techniques and strategies of interviewing, processing and evaluation of individual, group and community counseling for the preschool, elementary and intermediate levels, in light of their use and application in the intervention with different problems (occupational, academic, personal, interpersonal, family), different populations (regular current, and under the different approaches (preventive and remediative).

EDUC 8040 Community Counseling and Human Ecology

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8035 and EDUC 8036 Study and Analysis of the Psychology of Community Participation. It studies the dynamics of the community and institutions, as well as the controversial aspects of Puerto Rican life, emphasizing the role of the counselor as an agent of social change.

EDUC 8046 Guidance for Vocational Development

Three credits. Three hours of lecture a week.

Analysis of the literature and scientific research on theories of occupational development and their implications for the process of orientation and counseling of individuals going through different stages of growth and who are in different settings (school, work, and others) in Puerto Rico.

EDUC 8056 Cognitive Development

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of Major Theories and Empirical Evidence on Cognitive Development. Implications of this knowledge for curriculum development and teaching.

EDUC 8058 Philosophy, Epistemology and Ethics in Education

Three credits. Three hours of lecture a week.

Examination of the relationship between philosophy and the philosophy of education. It investigates and evaluates problems inherent to teaching from the perspective of epistemology and ethics.

EDUC 8068 Nonparametric Statistics in Educational Research

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6390 – Applied Statistics in Education Studies of statistical analyses used when educational research data are collected with categorical scales (nominal or ordinal) and do not depend on the form of distribution. Tests for one, two, or more dependent and independent samples are included. Hands-on experiences with computer use are included.

EDUC 8069 Law & Education

Three credits. Three hours of lecture a week.

The legal basis for public and private institutions at all levels in Puerto Rico and the federal legislation that applies. Powers, duties, and procedures relating to financing, equipment, property, management sets, students, working conditions, and other related issues. Critical appraisal; future needs.

EDUC 8075 Ethics and Education: From the Classical Era to Postmodernity

Three credits. Three hours of lecture a week.

An ethical comparative study from antiquity to postmodernity and its implications for education. Examination of the educational ethical doctrines of Socrates, Plato, and Aristotle. Analysis of the relationship between ethics and religion that took shape in the Middle Ages. Exploring the Transition to the Modern Era with its Emphasis on Secularization and how it impacts education. The philosophers of the modern era to be considered are Hume, Rousseau, Kant, Hostos, and Dewey. Study of contemporary ethical currents with emphasis on postmodernism and education.

EDUC 8076 Survey Research

Three credits. Three hours of discussion a week.

Prerequisites: EDUC 6509 and EDUC 6390 Study and development of survey research in education considering telephone, electronic, mail, and in-person surveys. Emphasis on sample design to represent populations, as well as instruments and procedures for data collection and analysis. Includes hands-on experience, use of technology

y reporting.

EDUC 8085 Gerontological Counseling

Three credits. Three hours of lecture a week.

Comprehensive study of the literature and research on human development oriented towards the stages of adulthood. Special importance will be given to the application of knowledge and skills to citizens over 65 years of age in their natural environments: home or institution.

EDUC 8086 Knowledge and Gender: Implications for Education

Three credits. Three hours of lecture a week.

Study of the social construction of the gender category from different approaches and methodologies. It examines the historical and theoretical background of women's and gender studies, the debates that these studies have generated, as well as the currents in research in various fields of knowledge and their connection with areas of education. Emphasis is placed on the impact of women's and gender studies on education, especially in Puerto Rico, and on educational research and action.

EDUC 8088 Mixed Research Methods

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6400, EDUC 6513 Analysis and design of research that includes quantitative and qualitative aspects. The course is based on an epistemological analysis of mixed research methods. Special attention will be given to the conceptualization of research problems and design. In addition, research will be analyzed to illustrate different designs and identify their strengths and challenges.

EDUC 8089 Critical Thinking and Education: Objectivism and Contextualism

Three credits. Three hours of discussion a week.

The most important readings on the topic of critical thinking are examined, analyzed, and evaluated. The first phase focuses on the topic of what critical thinking is. The second phase concentrates on the modern, objectivist doctrine. The central issue here is whether we have the capacity to transcend our culture and history to assume a neutral, impartial position. The third and final phase deals with the modern, contextual perspective. This section will consider arguments that assert that thought, like language, is relative to culture, language, and the contingent manner in which these have developed.

EDUC 8097 Exceptional Student Guidance and Counseling

Three credits. Three hours of lecture a week.

Analysis of existing counseling models and their use with the exceptional student population. Development of guidance and counseling models aimed at exceptional students.

EDUC 8117 Motivational Moment Therapy of Life (TEMOMVI)

Three credits. Lecture and discussion per week.

Prerequisites: EDUC 6310, PSIC 6005 Study of the Motivational Moment of Life Therapy (TEMOMVI) developed by Ramos Meléndez, (1990). The conceptual and procedural aspects of the therapy are discussed, and the participant is exposed to situations of analysis and management of real or simulated cases. In addition, a critical analysis of the therapy is included and the therapy is compared with other theoretical models.

EDUC 8121 Internship in Counseling

Three credits.

Field experiences, creation or evaluation in supervised counseling to put into practice the knowledge, skills and dispositions acquired in their doctoral preparation under supervision.

EDUC 8122 Seminar and Internship in Guidance and Counseling II

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8121 Supervised fieldwork in guidance and counseling in a setting and level of interest for the doctoral student.

EDUC 8127 Organization and Administration of Counseling Programs at the Preschool, Elementary, and Intermediate Levels

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8036, EDUC 8037 Study and critical analysis of the designs and structures of organization and administration of counseling programs for preschool, elementary and intermediate levels in different settings and with different populations that facilitate their effectiveness.

EDUC 8128 Group Design in Guidance and Counseling

Four credits. Three hours of lecture per week and 36 hours of workshop Prerequisite:

EDUC 6360, EDUC 8019, EDUC 8035 or Teacher's Authorization. Critical analysis of the theory and technology of group design and its application to counseling. Emphasis on the analysis of group effectiveness criteria as a mainstay in the development of appropriate designs for different types of groups. Application of designs in situations and problems associated with education in general.

EDUC 8265 Action Research in Educational Contexts

Three credits. Three hours of discussion a week.

Study of the epistemological, evaluative and theoretical foundations of action research, as well as its methods and techniques. Emphasis is placed on linking research and action in order to improve teaching-learning processes and solve problems in educational contexts. It includes practice in the planning, execution and dissemination of studies of this type.

EDUC 8266 Ethnographic Research

Three credits. Three hours of lecture a week.

Prerequisite: One of the following: EDUC 6400, 6513 Consideration of the theories and paradigms that underpin ethnographic research. Study of the strategies and techniques of ethnography and the management and analysis of ethnographic information.

EDUC 8267 Qualitative Analysis Models

Three credits. Two hours of lecture and one hour of laboratory.

Prerequisites: EDUC 6513 or EDUC 8266.

Study and application of qualitative analysis models such as dramaturgical analysis, *Grounded Theory* and the Wolcott-DAI model. It also includes the use of computer programs for this type of analysis and the application of analysis models to qualitative educational research datasets. Face-to-face, hybrid and online course.

EDUC 8268 Seminar on Controversial Issues and Ethical Aspects in Qualitative Research

Three credits. Three hours of seminar per week.

Prerequisites: EDUC 6400 or EDUC 6513: In-depth study of the most important historical moments and of the international codes and regulations in force that emerged to protect participants in research in general and qualitative research in particular. Critical analysis of the literature and the development of competencies to work with controversial issues and ethics within qualitative research.

EDUC 8340 Theory of Measurement II

Three credits. Three hours of discussion a week.

Prerequisite: EDUC 6340 Study of Item Response and Generalization Theories and Other Models for the Analysis of Measurement Instrument Results. Emphasis is placed on the application of these theories in the development of measurement instruments and in the interpretation of the results obtained with them. It includes the use of computer programs to perform the analyses when applying these theories and models.

EDUC 8900 Candidacy Examination

Zero credits.

The exam is a requirement for students in the doctoral program. It is considered a full load.

EDUC 8981 Doctoral Dissertation

Six credits.

Prerequisite: Have passed the Doctorate degree exam. Present a certificate of completion of the information competencies workshop granted by the Gerardo Selles Solá Library, and present evidence of having completed the online module on responsible conduct in research of the CITI program, according to the requirements of Certification 029 of

2012-2013 of the UPR-RP Administrative Board. Preparation of the doctoral dissertation, emphasizing the writing of the doctoral proposal and the study of the general procedures for writing a doctoral dissertation.

EDUC 8982 Continuation of Doctoral Dissertation

Zero credits. This course can be repeated three times.

Prerequisites: All courses leading to a degree in the major, the last course the student takes; have passed the degree exam.

Continuation of the preparation of the doctoral dissertation, emphasizing the implementation of the research and the writing of the dissertation.

EDUC 8995 Specialized Directed Study

One to three credits. One to three hours contact.

Prerequisite: Authorization from the Department Exploration of specialized topics or problems of particular interest to groups of graduate students under the direction of a faculty member or visiting professor. This course may be taken up to a maximum of nine credits.

Interim Dean: Dr. Grace Marie Carro Nieves **Director of the Department:** Dr. José Soto



Sonera

Associate Director of Academic Affairs: Dr. Juan C. Vadi-Fantauzzi

Guidance and Counseling Area Coordinator: Dr. Carmen Rosado Pacheco **Phone and extensions:** (787) 764-0000, ext. 89205, 89196, 89203, 89253

Portal: <http://ege.uprrp.edu/>

DEGREE: Doctorate in Education with a specialty in Guidance and Counseling

TEACHERS:

Ariel Agosto Cepeda, PhD, Michigan State University. 2009. Assistant Professor. Gay identity development; LGBT issues; Human sexuality. Other areas of interest include: Clinical supervision; and Ethical Virtues.

Rosy Fernández García Menocal, PhD, University of Michigan-Ann Arbor, 1992, Associate Professor. Research methodology; interpersonal relations; behavior modification; cognitive behavioral models; violence and aggressive behavior; group counseling; stress; spirituality; women's counseling; Counseling education.

Carmen M. Rosado Pacheco, EdD, University of Puerto Rico, 1996, Associate Professor. Emerging Issues in Counseling, Individual Counseling, Childhood Occupational Counseling, Occupational Counseling, Impact Therapy.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Admission Requirements

1. Master's degree with a specialty in Counseling and Counseling or a master's degree in another specialty that includes 18 credits at the graduate level in Counseling
2. Grade point average of 3.00 on a scale of 4.00
3. Educational Research Course at the Graduate Level
4. Course in Statistics at the graduate level
5. Proficiency in Spanish and English
6. Interview with the Admissions Committee

7. Application for admission to graduate studies in electronic format on the "ApplyYourself" platform
8. Two Recommendations for Graduate Studies in Electronic or Paper Format
9. Two official copies of credit transcripts, Bachelor's and Master's degrees
10. Licenses
11. Interview with the Academic Advisor or Committee

GRADUATION REQUIREMENTS:

1. Meet the graduation requirements of the Rio Piedras Campus
2. Pass the courses of the specialty with a grade of no less than "B" and obtain a grade of no less than "C" in the other courses
3. Have an academic average of no less than 3.00 in the courses that are considered for graduation

Program Requirements	Credits
General Professional Area	24
Courses in Fundamentals of Education	12
Courses in Research and Evaluation	12
Specialized professional area	27
Core courses of the specialty	6
• EDUC 8035 Controversial Issues in Guidance	3
• EDUC 8019 Research in Guidance and Counseling	3
Elective Courses in the Specialty Area	9
Boarding School - EDUC 8121 & EDUC 8122	6
Free Electives	9
EDUC 8900 Application Exam	0
Dissertation	
• EDUC 8981 Doctoral Dissertation	6
• EDUC 8982 Continuation of Doctoral Dissertation	0
Total Credits	60

COURSE DESCRIPTION:

The course descriptions below are the latest recorded in the Student Information System of the Río Piedras Campus Registrar's Office as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

EDUC 8035 Controversial Aspects in Guidance and Counseling

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director Critical analysis of controversial aspects in the field of guidance and counseling. Emphasis on relevant literature and research.

EDUC 8019 Research in Guidance and Counseling

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6539 Critical Analysis of Research in the Field of Guidance and Counseling and its Application in Our Circumstance

EDUC 8121 Internship in Counseling

Three credits.

Field experiences, creation or evaluation in supervised counseling to put into practice the knowledge, skills and dispositions acquired in their doctoral preparation under their supervision.

EDUC 8122 Seminar and Internship in Guidance and Counseling II

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8121 Supervised fieldwork in guidance and counseling in a setting and level of interest for the doctoral student.

EDUC 8900 Candidacy Examination

Zero credits.

The exam is a requirement for students in the doctoral program. It is considered a full load.

EDUC 8981 Doctoral Dissertation

Six credits.

Prerequisite: Have passed the Doctorate degree exam. Submit a certificate of completion of the information competencies workshop granted by the Gerardo Selles Solá Library, and present evidence of having completed the online module on responsible conduct in research of the CITI program, according to the requirements of Certification 029 of 2012-2013 of the UPR-RP Administrative Board Preparation of the doctoral dissertation, emphasizing the writing of the doctoral proposal and the study of the general procedures for writing a doctoral dissertation. Doctoral dissertation.

EDUC 8982 Continuation of Doctoral Dissertation

Zero credits. This course can be repeated three times.

Prerequisites: All courses leading to a degree in the major, the last course the student takes; have passed the degree exam.

Continuation of the preparation of the doctoral dissertation, emphasizing the implementation of the research and the writing of the dissertation.

OTHER COURSE DESCRIPTIONS:**EDUC 6065 Guidance and Counseling of Adults and the Elderly**

Three credits. Three hours of lecture a week.

Exhaustive study of the literature and research on the developmental tasks of adults and the elderly. The course provides the student with the opportunity to develop new counseling and consulting skills to help Puerto Ricans who are going through these evolutionary stages.

EDUC 6066 Human Sexuality and the Counseling Process

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the Director Intensive analysis of the literature and scientific research on human sexuality and its implications in the process of orientation and counseling, framed in the context of the Puerto Rican reality.

EDUC 6067 Guidance and Counseling for Persons with Disabilities

Three credits. Three hours of lecture a week.

Techniques and strategies for the guidance and counseling of individuals with disabilities in the educational environment.

EDUC 6070 Women's Counseling

Three credits. Three hours of lecture a week.

A broad vision of the social changes that have occurred and their consequences in relation to the roles of contemporary women. The psychological effects of these changes will be analysed. The general theoretical frameworks of Guidance and Counseling, their suitability and applicability for contemporary women and new intervention strategies for today's women will be discussed.

EDUC 6075 Career Guidance and Counseling at the Elementary Level

Three credits. Three hours of lecture a week.

Prerequisite: Principal's Permission The application of knowledge of general guidance to the elementary level with special interest in the relevant foundations, principles, and issues, and the development of special skills for measurement, intervention, and scientific evaluation in the management of the elementary level student and his or her school and family environment.

EDUC 6076 Adolescence

Three credits. Three hours of lecture a week.

Critical examination of theories and research related to adolescent development, behavior, and issues, including the special needs population. Educational and social programs for the adolescent population are evaluated.

EDUC 6077 Seminar on Interview Processes and Techniques in Counseling

Three credits. Three hours of seminar per week.

Analysis of the literature concerning the means of interviews. Concepts, techniques, and ethical issues related to the interview in the counseling process. Practice the different modalities to conduct interviews with diverse populations and in multiple scenarios.

EDUC 6078 Human Development Through the Life Cycle: Implications for Counseling

Three credits. Three hours of seminar per week.

Study and evaluation of theories of human development including physical, cognitive, social-emotional, moral, and cultural perspectives throughout the life cycle. Integration of concepts from theoretical perspectives which serve as a framework in the counseling process.

EDUC 6110 Evaluation in the Counseling Process

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program Introductory course in the use of tests and other assessment techniques in the counseling process. It includes data collection, interpretation and organization of information, and its integration into counseling processes.

EDUC 6165 Introduction to Counseling Research

Three credits.

Prerequisite: Authorization from the academic advisor Study of the theoretical, philosophical, and sociocultural foundations of research in the field of professional counseling. The ethical, legal and professional principles particular to research in the field of counseling will be emphasized in accordance with professional developments.

EDUC 6175 Administration of Student Support Services Programs

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

Study of literature and research related to the creation, planning, administration, development, and integration of programs and services for the personal and academic development of students in educational institutions. Analysis of the accountability of student support programs and services such as guidance and counseling, social work, sports, health, and others. Analysis of ways to create a positive culture that promotes student learning, collaboration with community agencies that integrate services that affect students, and the development of an awareness to address individual differences and special needs.

EDUC 6207 Introduction to School Counseling

Three credits. Three hours of lecture a week.

Study of the fundamentals and trends of professional school counseling. Emphasis on the development and implementation of comprehensive school counseling programs at all levels of education in the primary areas of work (personal, occupational, and academic) of the career counselor. Discussion of the historical and contemporary context, the functions of the professional as: counselor, leader, collaborator, advocate (advocate) and agent of change application of ethical-legal principles and considerations.

EDUC 6230 Education, Stratification and Social Mobility

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The Social Phenomenon of Stratification and Mobility in Relation to Educational Problems. The concepts of social structure and processes reviewed and discussed as reference material.

EDUC 6268 Seminar on Biographical Research in Education

Three credits. Three hours of seminar per week.

Prerequisite: EDUC 6400 or EDUC 6513 In-depth study of biography as a research design that allows addressing educational problems, phenomena and processes to address the educational problems of Puerto Rican society, from a biographical perspective. Critical analysis of related literature and development of competencies to carry out biographical studies.

EDUC 6270 Social Psychology of Education

Three credits. Three hours of lecture a week.

Consideration of the structure, function, and process of education, from the point of view of social psychology, with emphasis on recent research.

EDUC 6310 Counseling Theory and Practice

Three credits. Three hours of lecture a week.

Introduction to the principles and processes of personal counseling with emphasis on the integration of the theory and practical application of personal counseling. The various theories and schools of thought related to personal counseling. Controversial points in orientation. Practice in personal counseling using role-plays, demonstrations, interview recordings, and interview and case analysis.

EDUC 6315 Adlerian Counseling

Three credits. Three hours of discussion a week.

Prerequisite: EDUC 6310 Study of intervention strategies and techniques in aid processes, according to the theoretical principles proposed by Alfred Adler and his followers. It includes case analysis, design of action plans, dramatization and real practices.

EDUC 6316 Counseling and Spirituality

Three hours. One hour of lecture, one hour of discussion, and one hour of research per week.

Prerequisite: EDUC 6310 Theoretical, research, and applied approaches of counseling to the component of the spiritual dimension of human beings are contrasted. The role of this component in development, spiritual harmony, and the management of conflicts, situations, and decision-making that confront human beings throughout the life cycle is examined and discussed.

EDUC 6320 *Practicum* in Orientation I

Six credits. Fifteen hours of practice and three hours of seminar per week. Prerequisite: EDUC 6310 or equivalent Supervised experiences in real-world situations with an emphasis on personal guidance. The future counsellor has the opportunity to use the theories and concepts he or she has acquired, allowing him or her to examine his or her attitudes, skills and knowledge. Provides opportunities for personal and professional growth through ongoing self-assessments, one-on-one interviews, and seminar.

EDUC 6330 Seminar on Educational Research

Three credits. One hour of lecture and two hours of laboratory time per week. Prerequisite: EDUC 6400 Educational research workshop that provides hands-on experience combined with discussions on the planning and development of the different phases of a research project. The course allows students to see in the field the problems that may be encountered in the development of a research: administrative, personnel, interagency relations problems, among others.

EDUC 6340 Theory of Measurement I

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6405 Study of classical and modern theory underlying the development and use of measurement instruments in education and psychology.

EDUC 6350 Adult Psychology and Learning.

Three credits. Three hours of lecture a week.

Description and analysis from the beginning of adulthood to the years of senescence with special emphasis on the relationship between adult behavior and learning processes.

EDUC 6360 Group Counseling

Three credits. Three hours of lecture a week.

Group activities in orientation including: dissemination of information, home room, vocational selection, discussion of test results, group dynamics, personal orientation in groups and others. The content of the course will vary according to the type of clients with whom the student advisor may work. Emphasis will be given to the theory and practice of group counseling in educational and other settings.

EDUC 6390 Applied Statistics in Education I

Three credits. Three hours of lecture a week.

Application of various statistical analyses in education, with emphasis on their assumptions, justification, computer data processing, and interpretation of results. Includes frequency distributions with its measures of central tendency and variability, probability distributions, correlation (parametric and non-parametric), regression, and hypothesis testing (z, t, Chi-squared, and one-way ANOVA). Computer use is required. Face-to-face, hybrid and online course.

EDUC 6400 Research Designs

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6390, EDUC 6509 Study, analysis and elaboration of quantitative and qualitative research designs in education. Emphasis on maximizing the validity or credibility of different designs, discussion, and analysis of research that illustrates different types of designs. Course offered face-to-face, hybrid and online.

EDUC 6401 Ethical, Legal, and Professional Issues in Counseling

Three credits. An hour and a half of lecture, half an hour of discussion and an hour of workshop.

Analysis of critical professional issues in counseling with emphasis on the ethical and legal standards of practice and the challenges for the 21st century.

EDUC 6405 Applied Statistics in Education II

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6390 Application of various inferential statistical analyses in education with emphasis on their assumptions, their justification, the processing of the data and the interpretation of the results. It includes sampling, analysis of variance and covariance, nonparametric hypothesis testing, correlation, and simple and multiple linear regression. Attention is given to the use of computerized statistical programs to perform these analyses.

EDUC 6415 Action Research in Educational Contexts

Three credits. Three hours of discussion a week.

Study of the epistemological, evaluative and theoretical foundations of action research, as well as its methods and techniques. Emphasis is placed on linking research and action in order to improve teaching-learning processes and solve problems in educational contexts. It includes practice in the planning, execution and dissemination of studies of this type. Face-to-face, hybrid and online course.

EDUC 6431 Advanced Methods of Statistics in Education

Prerequisite: EDUC 6390 It is a continuation within the same line of analytical and theoretical development of the EDUC 6390 course. It covers the probability of statistical decisions, sampling and experimentation theories and methods, covariance, correlation, multiple regression, discriminant functions, and factor analysis, and nonparametric methods.

EDUC 6445 Psychopathology, Human Development and Counseling

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6310.

Introductory course on psychopathology and human development as a function of the counseling process. The mental conditions with the highest incidence and their manifestation in the different stages of human development will be studied. Recent theories and research on mental conditions and relevant intervention strategies will be discussed. Emphasis will be placed on the knowledge that the counselor and professional counseling must demonstrate about such mental conditions.

EDUC 6455 Child Abuse Among the General and Exceptional Population

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

It discusses human rights principles and the laws that protect minors in the country and the criminalization of abuse. Factors that increase the risk of maltreatment in the general and exceptional population and the implications of various conditions with respect to maltreatment are addressed. Intervention models used in Puerto Rico and some prevention and education programs are discussed. Opportunities are provided to familiarize themselves with the work of child protection professionals and how educators in general and special education educators in particular can contribute to reducing the incidence of maltreatment by collaborating on prevention and intervention.

EDUC 6460 Seminar on School Law in Puerto Rico

Three credits. Six hours of lecture per week.

Discussion and analysis of school laws, regulations of the Department of Education, and decisions of Puerto Rico applicable to specific situations of special interest to students.

EDUC 6465 Representations of Puerto Rican Personality

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6310 A vision of the conjugation of historical-geographical-sociocultural aspects in the formation of the Puerto Rican personality is offered and discussed.

Contemporary research and its implications for education and counseling are analyzed, discussed, and conducted.

EDUC 6501 Advanced Fundamentals of Education I

Three credits. Three hours of lecture a week.

Study of educational problems from the perspective of the contributions of various disciplines related to the fundamentals of education. Analysis of various philosophical, sociological and psychological currents in their interconnection and in response to specific problems faced by education at the local and international level. Special attention to the constitution of subjectivities and the participation of educational institutions in this process.

EDUC 6502 Advanced Course in Fundamentals of Education II

Three credits. Three hours of lecture a week.

An advanced analytical study of the human being: his origin, his nature, his mental processes and his personality. In the first place, an objective and scientific analysis will be made of the theory of the evolution of species, of the different psychological and philosophical conceptions of the nature of man, and of the main theories of knowledge. Then, with the foundations acquired, a study of the individual personality and the personality of the teacher will be made in the formation and transformation of these personalities

EDUC 6503 Education of Contemporary Society

Three credits. Three hours of lecture a week.

Analysis of the socio-economic factors affecting the demand, growth and development of education in certain cultural areas. Emphasis on Latin America, Africa, Europe, the United States of America and Russia.

EDUC 6507 Education and the Social Order

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program The study of the school as a social institution and its relationship to other aspects of society. Special emphasis will be given to the application of general theory to Puerto Rican society and to the education and critical evaluation of recent research.

EDUC 6509 Research Methods in Education

Three credits.

Study of the nature and scope of research in education, its various qualitative and quantitative methods and techniques, as well as the use of computerized technology. Emphasis on planning, conducting, and evaluating various types of research. Face-to-face, hybrid and online course.

EDUC 6510 The Philosophy of John Dewey

Three credits. Three hours of lecture a week.

Various aspects of John Dewey's thought: the evolution from absolutism to experimentalism of Dewey's thought, the theory of knowledge (with special emphasis in his book *LOGIC: The Theory of Inquiry*), Dewey's theory of art (with emphasis in his book *Art as Experience*), his theory of society, politics, and law (with special emphasis in the following books: *Human Nature and Conduct*, *Reconstruction in Philosophy*, and *The Public and its Problems*). Other aspects of his thinking will be discussed, such as: ethics, religion, valuation theory, experiential theory, psychology, history, school, and education.

EDUC 6511 Master's Thesis or Project

Three to six credits. Contact hours by arrangement.

Prerequisites: Have Passed the Master's Degree Exam (if applicable). Present a certificate of completion of the information competency workshop granted by the Gerardo Selles Solá Library, and present evidence of having completed the online module of responsible

conduct in research of the CITI program, according to the requirements of Certification 029 (202-2013) of the Administrative Board of Puerto Rico.

Preparation of a thesis or master's project, emphasizing the proposal and the study of the procedures for writing the thesis or project.

EDUC 6512 Continuation of Thesis or Master's Project

No credit. Three hours of lecture a week.

Prerequisite: EDUC 6511 Continuation of the preparation of the thesis or master's project, emphasizing the conduct of the research or project and its defense.

EDUC 6513 Seminar: Qualitative Research in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6509 or its equivalent Critical analysis of the theoretical foundations, models and contributions of qualitative research to the study and understanding of educational problems. Study of the epistemological paradigms and assumptions that underpin qualitative research approaches and methodologies. Development of competencies in the preparation of research proposals. Face-to-face, hybrid and online course.

EDUC 6515 Field Experience in Educational Research and Evaluation

Three credits. Six hours of lab per week.

Prerequisite: EDUC6400 and approval from the instructor offering the course.

Field experience in the different steps that make up the research or evaluation process. The student must accumulate a minimum of 90 hours in this supervised internship. This experience is gained by participating in a recognized research center or in collaboration with faculty-led research projects or conducting program evaluations in the community or in agencies. It can be taken up to 2 times (6 credits).

EDUC 6529 Cultural Deprivation, Family Dynamics and Education in Puerto Rico

Three credits. Three hours of lecture a week.

Study and analysis of patterns of experiences or life of social classes from the sociocultural point of view and in relation to family dynamics; using socialization processes as a connection between one frame of reference and another. The case study will serve as illustrative material. Psychosocial studies and analyses will be related to learning problems with special attention to those of students with cultural deprivation.

EDUC 6537 Introduction to Guidance and Counseling

Three credits. Three hours of lecture a week.

Philosophy, basic principles and practices of the orientation program. Tools and techniques that can be used in a helping relationship. Various scenarios in which counselling services are offered. Use of community resources.

EDUC 6538 Study of New Research Skills and Theories of Learning

Two credits. Two hours of lecture per week.

It includes the study of theories, methods, and strategies and the findings of the most recent research related to the process of teaching and learning.

EDUC 6539 Occupational Counseling

Three credits. Three hours of lecture a week.

Prerequisite: EDUC6110, EDUC6310 Study and proposal of new theoretical and practical trends in the design and implementation of interventions to promote occupational development. Critical analysis of occupational counseling research, programs, and services in employment and human resource preparation scenarios. Group psychoeducational field experience in the school setting.

EDUC 6545 *Practicum* in Orientation II

Three credits. Fifteen hours of practice and three hours of seminar per week. Prerequisite: EDUC 6320 Intense experiences in personal counseling under supervision. Emphasis on the interpersonal factors of the relationship and the counselor's self-understanding.

EDUC 6547 Seminar on Socioeconomic Changes in Latin America and their Consequences on Education

Three credits. Three hours of lecture a week.

The purpose of this seminar is to demonstrate the close relationship between socio-economic changes and the development of their educational system. As an example of this relationship, the prevailing situations in Latin America are used.

EDUC 6549 Seminar on Recent Trends in Guidance

Three credits. Three hours of lecture a week.

Recent trends, procedures, and innovative ideas that are having or promise to have a major impact on the field of guidance and related activities.

EDUC 6550 History of Pedagogical Ideas in Puerto Rico, Nineteenth and Twentieth Centuries

Three credits. Three hours of lecture a week.

Prerequisite: EDPE 4005 or its equivalent Research and discussion of the pedagogical ideas that have guided the educational system in Puerto Rico from the nineteenth century to the present. It begins with an overview of the state of education in Latin America during the nineteenth century. This overview includes the analysis of philosophical and educational trends during the nineteenth century and compares them with the orientation of education in the Spanish colonial era. In the case of Puerto Rico, the contribution to the history of pedagogical ideas made by teachers and thinkers, such as Baldorioty, Tapia, Eugenio Mar de Hostos and others, stands out. The twentieth century in Puerto Rico is analyzed in terms of the encounter of the Anglo-Saxon culture with the Hispanic and Puerto Rican culture, and the course studies the management of the commissioners and secretaries of public

instruction and rectors of the University of Puerto Rico, specifically the ideas that have served as educational policy in our education system during the present century will be highlighted in this course.

EDUC 6551 Seminar on Research and Creation in Curriculum and Teaching

Three credits. Three hours of seminar per week.

Prerequisites: Have passed the subject exam.

Integrative experience through which the student demonstrates his/her research and creation competencies in curriculum and teaching. This experience revolves around the student's academic and professional interests.

EDUC 6555 Sociological Analysis of the School as an Institution

Three credits. Three hours of lecture a week.

The school as a social institution; the roles played by different people in the educational process: interrelation of roles; etiology and role conflict. The social structure of the school and its effect on communication, learning, and leadership. School and community relationships and their impact on the operation of the school. Study of the most recent research.

EDUC 6561 Seminar: Reading and Research on Educational Problems

Six credits. Three hours of lecture and three hours of lab per week. Prerequisite: Have passed a minimum of twenty credits of graduate study independent study of a topic or problem selected by the student with the approval of the professor or panel of professors in charge. It will require intense reading and experimental work, when necessary. The student is required to appear periodically to present oral reports on the progress of his/her work. At the end, you will submit a written paper.

EDUC 6575 Intervention Programs

Three credits. Three hours of lecture a week.

This course will present a series of intervention programs with children used in different parts of the world (I.R., Latin America, United States, Africa and Europe) from a variety of perspectives: nutrition, education, cognitive development, recreation, motor development and others. The programmes will be analysed from a critical point of view, taking into account their objectives, implementation, as well as the socio-cultural context in which they are developed. The course will focus on ways to evaluate the effectiveness of intervention programs.

EDUC 6579 Education, Urbanization and Urban Ecology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree This course is offered to teachers, school administrators, supervisors, counselors, social workers, and other school personnel who need a basic understanding of the social structure and processes in the metropolitan-urban social environment. A study will be made of the needs, problems and educational opportunities in relation to the changing ecology of the city and the development of metropolitan areas with specific reference to Puerto Rico. The main aspects of the course are: urban ecology; the

process and impact of urbanization; personal adjustment in the city; and urban renewal planning. Observations and field studies will be carried out in various urban and suburban areas, in the model city project, and in several projects of the urban renewal and housing corporation.

EDUC 6580 Introduction to Quantitative Techniques in Educational Research

No credit. 15 lecture hours per semester.

This course will familiarize students with the essential elements of techniques related to quantitative information for research projects in the field of education. The course will cover the basic statistical methods necessary for research and will also include an understanding of pedagogical research concepts and procedures, problem formulation and documentation. Students will be provided with practical exercises that familiarize them with common computational procedures for educational research.

EDUC 6586 Evaluation Theory and Methodology

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6390 and 6509 Study of evaluation as a type of specialized research. It includes the critical analysis of the main models, their epistemological and methodological bases. Development of basic skills for planning and implementing evaluations

EDUC 6587 Young Adult Psychology

A credit. Three hours of lab time a week.

Psychosocial and educational derivations of the problems, satisfactions, hopes, struggles, anxieties, encounters, frustrations, conflicts, attitudes, etc. that arise (and with which we must struggle) in the process of becoming a balanced, sensitive, alert adult, who accepts himself as he is, with a minimum of conflicts. In an adult who can fulfill and function in the emerging social order.

EDUC 6588 Writing and Style in Technical Research Language

Three credits. Three hours of lecture a week.

The purpose of this course is to develop skills in the use of written language for research. It will emphasize the structure, tone and style of research papers with application to the preparation of dissertations, monographs, reports and theses.

EDUC 6589 Systematic Analysis of Instruction

Three credits. Three hours of lecture a week.

The course provides participants with the knowledge, skills, and attitudes to apply the systematic analysis approach to the improvement of instruction. It gives special attention to the preparation of instructional modules by applying the following basic components: writing of operational objectives, content selection, assessment techniques (pre- and post-assessment), selection and preparation of materials, modes of instruction. It offers the opportunity to design and produce curricular material, applying the different techniques to individualize learning. Participation in the systematic analysis of courses and planning for the most effective use of technology in the learning process.

EDUC 6597 Construction of Measuring Instruments

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

Prerequisites: EDUC Study of the basic theory and main systematic methods for constructing various measuring instruments. Includes hands-on experience in developing them.

EDUC 6609 The Educational Philosophy of Eugenio María de Hostos

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

Prerequisites: Be a graduate student of documentary research, analysis and interpretation of the educational philosophy of Eugenio María de Hostos in order to derive recommendations applicable to Puerto Rican educational work.

EDUC 6615 Vocational and Technical Education: Principles and Practices.

Three credits. Three hours of lecture a week.

Analysis of the development of vocational education with special attention to its projections and implications in the preparation of personnel for the world of work.

EDUC 6616 Multicultural Counseling

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

Exploration of issues pertinent to multicultural counseling related to relevant knowledge and research integrating the personal beliefs, attitudes, and skills of the helping professional. It includes issues related to social justice and *advocacy* that serve as a reference in counseling processes.

EDUC 6617 Curriculum Development in Vocational Education

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the director Analysis and application of curricular models for vocational education including its parts. Emphasis on competency-based curricular models.

EDUC 8005 Cognitive Processes

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director of the Doctoral Program Empirical and Theoretical Foundations of Cognitive Processes. Detailed analysis of thinking, knowledge, reasoning, problem-solving, and conceptual learning.

EDUC 8006 Society and Education

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Study of Sociological Theories of Education. Analysis of discourses and debates around current problems of education from their philosophical, historical, social, cultural and economic perspectives. Emphasis on contemporary macro-social issues and their impact on education. Research on social problems and challenges facing contemporary education.

EDUC 8009 Learning Theories

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Critical analysis of the assumptions, principles, and logic of the major learning theories and of the scientific methodology used by the theorists. Implications of these theories for curriculum development and teaching.

EDUC 8010 Society, Culture and Education in the Caribbean

Three credits. Three hours of lecture a week.

Critical analysis of research in the Caribbean area, focusing on regional studies and specific countries in the Caribbean basin. The emphasis is on analysing cultural, socio-economic and political realities and trends as they relate to education.

EDUC 8015 Seminar on Pragmatism, Existentialism and Personal Knowledge

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6501-6502 Examination of the three approaches that explain human reality, but which constitute mutually exclusive perspectives. It analyzes each of these perspectives in its relation to unresolved issues in the fields of philosophy and social sciences

and education. Each of these perspectives seems to be "valid" and will have to be studied by reading scholars in the field.

EDUC 8017 The Role of the Counselor in a Behavior Modification Situation

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6360 Analysis and application of intervention models for behavior modification. Emphasis is placed on the development and strengthening of behavior that is considered appropriate in group dynamics.

EDUC 8018 Comparative Correlational and Causal Research

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6509, EDUC 6390 Study and development of non-experimental quantitative research in education, specifically comparative correlational and causal studies, both cross-sectional and longitudinal. Emphasis on the study of its essential and methodological characteristics. It includes hands-on experience, use of technology, and preparation of research reports.

EDUC 8020 Experimental Research in Education

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 6405 Theory and Practice in the Design, Analysis, and Interpretation of Experimental and Quasi-Experimental Research. Critical review of methodological aspects in the planning and conduct of experimental research in educational settings.

EDUC 8025 Ethical Perspective of Childhood and Education

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

Analysis of childhood from constructivist and naturalistic perspectives. Exploration of the issue of children's rights in modernity based on the naturalism of J.J. Rousseau and the ethics of E. Kant. Analysis of the applicability of the concepts of freedom, democracy, authority and punishment in the light of the effectiveness of Socratic ethical precepts.

EDUC 8037 Guidance Techniques and Strategies at the Secondary and Postsecondary Level

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8035 and EDUC 8036 Study and critical analysis of guidance techniques and strategies and their application to high school and college-level students. Special importance is given to individual and group counseling processes and techniques that facilitate these processes of help with clients who present problems of an occupational, academic, personal and interpersonal relationship nature.

EDUC 8038 Introduction to Family Counseling

Three credits. Three hours of lecture a week.

The historical background, philosophical underpinnings, and various models of family counseling or therapy will be studied. The different theoretical approaches are evaluated in order to determine their applicability to Puerto Rican culture. Special attention will be given to the use of the models discussed in class to intervene in conflict or crisis.

EDUC 8039 Techniques and Strategies Guidance at the Preschool, Elementary and Intermediate Levels

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 8019, EDUC 8025 and EDUC 8036 Critical analysis of the techniques and strategies of interviewing, processing and evaluation of individual, group and community counseling for the preschool, elementary and intermediate levels, in light of their use and application in the intervention with different problems (occupational, academic, personal, interpersonal, family), different populations (regular current, and under the different approaches (preventive and remediative).

EDUC 8040 Community Counseling and Human Ecology

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8035 and EDUC 8036 Study and Analysis of the Psychology of Community Participation. It studies the dynamics of the community and institutions, as well as the controversial aspects of Puerto Rican life, emphasizing the role of the counselor as an agent of social change.

EDUC 8046 Guidance for Vocational Development

Three credits. Three hours of lecture a week.

Analysis of the literature and scientific research on theories of occupational development and their implications for the process of orientation and counseling of individuals going through different stages of growth and who are in different settings (school, work, and others) in Puerto Rico.

EDUC 8056 Cognitive Development

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Analysis of Major Theories and Empirical Evidence on Cognitive Development. Implications of this knowledge for curriculum development and teaching.

EDUC 8058 Philosophy, Epistemology and Ethics in Education

Three credits. Three hours of lecture a week.

Examination of the relationship between philosophy and the philosophy of education. It investigates and evaluates problems inherent to teaching from the perspective of epistemology and ethics.

EDUC 8068 Nonparametric Statistics in Educational Research

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6390 – Applied Statistics in Education Studies of statistical analyses used when educational research data are collected with categorical scales (nominal or ordinal) and do not depend on the form of distribution. Tests for one, two, or more dependent and independent samples are included. Hands-on experiences with computer use are included.

EDUC 8069 Law & Education

Three credits. Three hours of lecture a week.

The legal basis for public and private institutions at all levels in Puerto Rico and the federal legislation that applies. Powers, duties, and procedures relating to financing, equipment, property, management sets, students, working conditions, and other related issues. Critical appraisal; future needs.

EDUC 8075 Ethics and Education: From the Classical Era to Postmodernity

Three credits. Three hours of lecture a week.

An ethical comparative study from antiquity to postmodernity and its implications for education. Examination of the educational ethical doctrines of Socrates, Plato, and Aristotle. Analysis of the relationship between ethics and religion that took shape in the Middle Ages. Exploring the Transition to the Modern Era with its Emphasis on Secularization and how it impacts education. The philosophers of the modern era to be considered are Hume, Rousseau, Kant, Hostos, and Dewey. Study of contemporary ethical currents with emphasis on postmodernism and education.

EDUC 8076 Survey Research

Three credits. Three hours of discussion a week.

Prerequisites: EDUC 6509 and EDUC 6390 Study and development of survey research in education considering telephone, electronic, mail, and in-person surveys. Emphasis on sample design to represent populations, as well as instruments and procedures for data collection and analysis. Includes hands-on experience, use of technology

y reporting.

EDUC 8085 Gerontological Counseling

Three credits. Three hours of lecture a week.

Comprehensive study of the literature and research on human development oriented towards the stages of adulthood. Special importance will be given to the application of knowledge and skills to citizens over 65 years of age in their natural environments: home or institution.

EDUC 8086 Knowledge and Gender: Implications for Education

Three credits. Three hours of lecture a week.

Study of the social construction of the gender category from different approaches and methodologies. It examines the historical and theoretical background of women's and gender studies, the debates that these studies have generated, as well as the currents in research in various fields of knowledge and their connection with areas of education. Emphasis is placed on the impact of women's and gender studies on education, especially in Puerto Rico, and on educational research and action.

EDUC 8088 Mixed Research Methods

Three credits. Three hours of lecture a week.

Prerequisites: EDUC 6400, EDUC 6513 Analysis and design of research that includes quantitative and qualitative aspects. The course is based on an epistemological analysis of mixed research methods. Special attention will be given to the conceptualization of research problems and design. In addition, research will be analyzed to illustrate different designs and identify their strengths and challenges.

EDUC 8089 Critical Thinking and Education: Objectivism and Contextualism

Three credits. Three hours of discussion a week.

The most important readings on the topic of critical thinking are examined, analyzed, and evaluated. The first phase focuses on the topic of what critical thinking is. The second phase concentrates on the modern, objectivist doctrine. The central issue here is whether we have the capacity to transcend our culture and history to assume a neutral, impartial position. The third and final phase deals with the modern, contextual perspective. This section will consider arguments that assert that thought, like language, is relative to culture, language, and the contingent manner in which these have developed.

EDUC 8097 Exceptional Student Guidance and Counseling

Three credits. Three hours of lecture a week.

Analysis of existing counseling models and their use with the exceptional student population. Development of guidance and counseling models aimed at exceptional students.

EDUC 8117 Motivational Moment Therapy of Life (TEMOMVI)

Three credits. Lecture and discussion per week.

Prerequisites: EDUC 6310, PSIC 6005 Study of the Motivational Moment of Life Therapy (TEMOMVI) developed by Ramos Meléndez, (1990). The conceptual and procedural aspects of the therapy are discussed, and the participant is exposed to situations of analysis and management of real or simulated cases. In addition, a critical analysis of the therapy is included and the therapy is compared with other theoretical models.

EDUC 8127 Organization and Administration of Counseling Programs at the Preschool, Elementary, and Intermediate Levels

Three credits. Three hours of lecture a week.

Prerequisite: EDUC 8036, EDUC 8037 Study and critical analysis of the designs and structures of organization and administration of counseling programs for preschool, elementary and intermediate levels in different settings and with different populations that facilitate their effectiveness.

EDUC 8128 Group Design in Guidance and Counseling

Four credits. Three hours of lecture per week and 36 hours of workshop Prerequisite: EDUC 6360, EDUC 8019, EDUC 8035 or Teacher's Authorization. Critical analysis of the theory and technology of group design and its application to counseling. Emphasis on the analysis of group effectiveness criteria as a mainstay in the development of appropriate designs for different types of groups. Application of designs in situations and problems associated with education in general.

EDUC 8265 Action Research in Educational Contexts

Three credits. Three hours of discussion a week.

Study of the epistemological, evaluative and theoretical foundations of action research, as well as its methods and techniques. Emphasis is placed on linking research and action in order to improve teaching-learning processes and solve problems in educational contexts. It includes practice in the planning, execution and dissemination of studies of this type.

EDUC 8266 Ethnographic Research

Three credits. Three hours of lecture a week.

Prerequisite: One of the following: EDUC 6400, 6513 Consideration of the theories and paradigms that underpin ethnographic research. Study of the strategies and techniques of ethnography and the management and analysis of ethnographic information.

EDUC 8267 Qualitative Analysis Models

Three credits. Two hours of lecture and one hour of laboratory.

Prerequisites: EDUC 6513 or EDUC 8266.

Study and application of qualitative analysis models such as dramaturgical analysis, *Grounded Theory* and the Wolcott-DAI model. It also includes the use of computer programs for this type of analysis and the application of analysis models to qualitative educational research datasets. Face-to-face, hybrid and online course.

EDUC 8268 Seminar on Controversial Issues and Ethical Aspects in Qualitative Research

Three credits. Three hours of seminar per week.

Prerequisites: EDUC 6400 or EDUC 6513: In-depth study of the most important historical moments and of the international codes and regulations in force that emerged to protect participants in research in general and qualitative research in particular. Critical analysis of the literature and the development of competencies to work with controversial issues and ethics within qualitative research.

EDUC 8340 Theory of Measurement II

Three credits. Three hours of discussion a week.

Prerequisite: EDUC 6340 Study of Item Response and Generalization Theories and Other Models for the Analysis of Measurement Instrument Results. Emphasis is placed on the application of these theories in the development of measurement instruments and in the interpretation of the results obtained with them. It includes the use of computer programs to perform the analyses when applying these theories and models.

EDUC 8995 Specialized Directed Study

One to three credits. One to three hours contact.

Prerequisite: Authorization from the Department Exploration of specialized topics or problems of particular interest to groups of graduate students under the direction of a faculty member or visiting professor. This course may be taken up to a maximum of nine credits.

Faculty of Humanities





Mailing Address: 13 University Ave, Ste 1301, San Juan, Puerto Rico 00925-2533

Director: Dr. Emilio Ricardo Báez Rivera

Phone extensions: (787) 764-0000, extensions 89495, 89504

E-mail address of the Graduate Program: pgeh.rrp@upr.edu

Portal: http://humanidades.uprrp.edu/graduados/?page_id=425

DEGREE: Master of Arts with a major in Hispanic Studies

Research Centers:

Multidisciplinary Studies Seminar

Federico de Onís Seminar: This Seminar is one of the most important research centers in Puerto Rico and the Caribbean, and is visited by researchers from all over the world. The Seminary publishes the *Journal of Hispanic Studies*. The Seminary's projects and research also include the preservation and conservation of rare books, first editions, and the cataloguing of the archives of Federico de Onís, Concha Meléndez, and Antonio S. Pedreira. Conferences, discussions and thesis defenses are some of the activities that take place in this Seminar.

Publications

Revista de Estudios Hispánicos – journal of Hispanic language and literature

TEACHERS:

Emilio Ricardo Báez Rivera, Ph.D., University of Seville, 2005. Professor. Colonial Spanish-American Literature, Spiritual Autobiography, Transatlantic Hispanic Mysticism (ss. XVI-XXI).

Rafael Alberto Bernabe Riefkhol, Ph.D., State University of New York, Binghamton, 1989. Professor. Sociology, Puerto Rican literature.

Sunny Cabrera Salcedo, Ph.D., University of Massachusetts, Amherst, 1999. Professor. Hispanic Linguistics.

Sofía Irene Cardona Colom, Ph.D., University of Massachusetts, 1988. Professor. Contemporary Spanish Literature.

María Inés Castro Ferrer, Ph.D., University of Puerto Rico, 2002. Professor. Hispanic Linguistics.

Fernando Alfonso Feliú Matilla, Ph.D., University of California, Davis, 1994. Professor. Puerto Rican Literature, 19th and 20th Centuries.

Rosa Elisa Guzzardo Tamargo, Ph.D., The Pennsylvania State University, 2012. Associate Professor. Hispanic linguistics, bilingualism, psycholinguistics.

María Luisa Lugo Acevedo, Ph.D., University of Puerto Rico, 1995. Professor. Spanish and Aljamiada Literature of the Golden Age.

Doris Evelyn Martínez Vizcarrondo, Ph.D., Universidad Autónoma de Madrid, 1998, Hispanic Linguistics.

Miguel Ángel Náter Maldonado, Ph.D., University of Puerto Rico, 2002. Professor. Hispanic American and Puerto Rican Literature; Spanish-American Theatre and Modernism.

María Teresa Narváez Córdova, Ph.D., University of Puerto Rico, 1988. Professor. Spanish and Aljamiada Literature of the Golden Age.

Luis Alfredo Ortiz López, Ph.D., University of New Mexico, 1996. Professor. Hispanic Linguistics and Hispanic Dialectology.

Juan Otero Garabís, Ph.D., Harvard University, 1998. Professor. Puerto Rican and Caribbean Literatures and Cultures; Cultural Studies.

Melanie Ann Perez Ortiz, Ph.D., Stanford University, 1999. Professor. Latin American and Puerto Rican Literature.

Carmen Ivette Pérez Marín, Ph.D., Harvard University, 1990. Professor. Latin American Literature.

Pamela F. Phillips, Ph.D., Washington University, St. Louis, 1997. Professor. Spanish literature of the eighteenth century.

Zaira O. Rivera Casellas, Ph.D., University of Massachusetts, Amherst, 2003. Professor. Editorial staff; Puerto Rican and Caribbean literature.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

1. Bachelor's Degree in Hispanic Studies or related area.
2. Index of 3.00 or higher average
3. Two (2) letters of recommendation
4. Letter of Intent
5. If you are not a student of Hispanic Studies or a related area, you may be asked for a correlative, depending on your academic record.

GRADUATION REQUIREMENTS:

1. Pass thirty credits of graduate courses.
2. Pass a degree exam.
3. Approve a thesis or project proposal.
4. Approve a thesis or project.
5. Take six credits of a modern or classical language in any modality (intensive or for researchers). If you have those language courses from your high school studies, you don't have to take them in your master's degree.

PROGRAM OF STUDY:

Program Requirements	Credits
ESHI 6559-6560 Graduate Research	6
Supervised Courses	24
ESHI 6900 Comprehensive Exam	0
Thesis (oral presentation and written thesis)	0
ESHI 6895 Master's Thesis	0
ESHI 6896 Continuation of Master's Thesis	0
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ESHI 6559 Graduate Research

Three credits. Two hours of lecture per week.

Prerequisite: Required of all candidates for the Master of Arts degree in Hispanic Studies. Prior authorization from the director of the department. Direction of the research work of the candidates in the preparation of the topic of their thesis.

ESHI 6560 Graduate Research

Three credits. Two hours of lecture per week.

Prerequisite: Required of all candidates for the Master of Arts degree in Hispanic Studies. Prior authorization from the director of the department. Direction of the research work of the candidates in the preparation of the topic of their thesis.

ESHI 6900 General Degree Exam

Credits: 0

ESHI 6895 Master's Thesis.

No credit.

Preparation of the master's degree thesis.

ESHI 6896 Continuation of Master's Thesis

No credit.

Continuation of the preparation of the master's thesis.

Students may enroll for up to a maximum of 4 semesters according to communication received from the Department of Graduate Studies of the Faculty of Humanities.

OTHER COURSE DESCRIPTIONS:

ESHI 6010 The Romancero

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student. Commented reading of romances, their value, and their influence on literature. Analysis of content, style, metrics, and language.

ESHI/LITE 6019 The European "Novella" and Legal Discourse

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

Prerequisites: LITE 3011 (Modern Literature), LITE 3013 (Contemporary Literature) and LITE 3101 (Literary Theory). The study of the relations between legal discourse and the European novella, and the analysis of the relations between *the novella and the* "fictitious

case", paying attention to the way in which individual authors appropriate this discourse of classical antiquity for the purpose of validating and/or questioning their respective legal systems and the hierarchies that they support.

ESHI 6039 Tragedy in Contemporary Spanish-American Theatre

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

Analysis of the links between contemporary Spanish-American drama and Greek myth and tragedy. The transformations of classic plays that have been carried out by Latin American playwrights in the works of Argentines, Chileans, Cubans, Dominicans, Puerto Ricans and Salvadorans, among others, will be studied.

ESHI 6046 Origins of New Puerto Rican Poetry

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the Director The poetic productions of more than twenty writers born, most of them, between 1931 and 1938 are studied.

ESHI 6048 The Caribbean Between Letter and Note: Literature, Music and National Identity in the Hispanic Caribbean

Three credits. One hour of lecture and two hours of discussion per week. Prerequisites: Be a graduate student of the campus or the authorization of the professor. Analysis and discussion of the construction of national and regional identities of the Hispanic Caribbean as represented in literary texts and popular music during the second half of the twentieth century.

ESHI 6049 Mystical-Feminine Literature in Spain and Latin America

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

Prerequisites: Be a student of any Graduate Program of the Faculty of Humanities, Education, Social Sciences, Communications or with the permission of the professor.

Study of the mystical-visionary discourse of religious women on both sides of the Hispanic Atlantic, from the Renaissance to the Baroque. The theory of the mystical phenomenon will be discussed, the conceptual framework from which the analysis of this literature with its own features in relation to literary works of a religious type starts. The list of authors includes the best-known peninsular, Saint Teresa of Jesus, and the Spanish-American Creoles: Sister María Magdalena de Lorravaquio Muñoz (New Spain), Saint Rosa de Santa María (Peru), Sister Jerónima del Espíritu Santo and Mother Francisca Josefa de la Concepción de Castillo (New Kingdom of Granada).

ESHI 6055 René Marqués Theatre

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Seminar dedicated to the dramatic art of René Marqués and his ideological message to determine if they manage to fully conjugate.

ESHI 6056 The Poetry of Luis Lloréns

Three credits. Three hours of lecture a week.

Study of the poetic work of Luis Lloréns Torres and its values in Puerto Rican literature.

Lectures, text analysis, reports, discussion.

ESHI 6057 Art and Problems of the Novel by Enrique A. Laguerre

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Analysis of Laguerre's novels to finally determine the balance between art and problematics.

ESHI 6058 The Narrative Work of Carlos Fuentes

Three credits. Three hours of lecture a week.

Introduction to the narrative work of the Mexican writer Carlos Fuentes (short story and novel) to examine the aspects that make up the personal narrative mode, as can be observed in some representative texts of his literary work.

ESHI 6065 Gender and Race in Puerto Rican Literature

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Be a student of any graduate program in the Faculty of Humanities, Education, or Social Sciences.

Study of various literary movements, authors, and texts of Puerto Rican literature from the critical frameworks of gender and race. The analysis of the texts will examine the role of sexual and racial representations in the processes of writing, as well as their relationship to the cultural, political, and social context of Puerto Rico.

ESHI 6069 Recent Hispanic American Women's Narrative

Three credits. One hour of discussion, one hour of lecture and one hour of seminar per week. Study of the canon of Latin American women's literature based on the analysis of the production of recent women writers. It will focus on the themes of literature and gender, conceptualization of the female character in narrative written by women, the relationship between the body and literature, and rewriting history from the female perspective.

ESHI 6076 Hispanic American Existentialist Theatre

Three credits. Three hours of seminar per week.

The course revolves around the definition and history of avant-garde theatre in Latin America, based on theoretical readings and the analysis of primary texts of representative works of existentialist and absurd theatre.

ESHI 6077 Walking and Seeing: Spain through Travel Literature from the Middle Ages to the Present

Three credits. Three hours of seminar per week.

This course aims to examine Spanish travel literature from the Middle Ages to the present. The chosen chronology draws the reader's attention to the hybrid nature of the travel narrative and its proximity to other genres and disciplines, including geography, history, art, autobiography, letter, and fiction. Throughout the semester we will analyze the form of the travel narrative (the diary, the letter, the newspaper article, the traditional narrative, etc.); the relationship between tourism

and national identity; observation and description; socio-political critique; the traveler's gaze and perception of landscape and space; and the relationship between the travelogue and the novel; and the literary creation of a textualized space.

ESHI 6085 Ortega y Gasset

Three credits. Three hours of lecture a week.

Prerequisite: be a master's or doctoral student at a seminar dedicated to the thought and literary work of Ortega y Gasset; its influence on twentieth-century literature and culture and its aesthetic values.

ESHI 6086 Peruvian Literature

Three credits. Three hours of lecture a week.

Prerequisite: ESPA 4221-4222 and permission of the director Study of Peruvian literature from its origins to the present day through the study of fundamental authors and works.

ESHI 6087 Peruvian Literature

Three credits. Three hours of lecture a week.

Prerequisite: ESPA 4221-4222 and permission of the director Study of Peruvian literature from its origins to the present day through the study of fundamental authors and works.

ESHI 6089 Debates in Hispanic American Literature

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

Panoramic discussion of the most important debates in Latin American literature from an interdisciplinary perspective.

ESHI 6095 Spanish Mystical Literature

Three credits. Three hours of lecture a week.

Prerequisite: ESPA3211-3212, ESPA 4251-4252 and permission Study of mystical literature and its possible Semitic literary affiliation. Included are the works of St. John of the Cross, St. Teresa of Jesus, Fray Luis de León, Juan de los Angeles, etc.

ESHI 6101 Fundamentals of Hispanic Linguistics

Three credits. Three hours of lecture a week.

This course offers an overview of the evolution and characterization of the Spanish language. A hand-held tour of the political, literary and cultural history of the Spanish-speaking world is carried out to identify the transformations that the Spanish language has undergone in its phonetics, morphosyntax and lexicon up to the present. In the process, the student will become familiar with the terminology of linguistics and the description of the Spanish language in each of its areas.

ESHI 6102 The Story in Puerto Rico

Three credits. Three hours of seminar per week.

This course studies the short story in Puerto Rico, considering its historical development and its relationships with stylistic and regional currents. Based on the analysis of the theory, it will be applied to the most representative storytellers of the different literary periods, with special attention to recurring themes such as the representation of the countryside and the city, the construction of the landscape, the influence of social circumstances and regional environments, among others.

ESHI 6105 Hispanic Linguistics

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

Study of the fundamentals of linguistic theory and analysis, applied to Spanish as a system, taking into account its phonetic and phonological, morphological, syntactic and semantic/pragmatic components, as well as its dialectal and sociolinguistic variants. Practical analysis exercises for the identification of linguistic units.

ESHI 6125 Topics in Current Spanish Literature

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

Analysis and discussion of topics in current Spanish literature from the political transition to democracy. Special attention is paid to the development of critical competence in the context of the production of contemporary literature in Spain. The literary corpus and theoretical foundation will vary depending on the topic. It can be repeated up to a maximum of six credits, with different topics of study.

ESHI 6206 Patriarchs and Melancholics: Normative Masculinity in the Hispanic Narrative of the 21st Century

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

Exploration of the ideas of identity, community and historical project that are raised and problematized in the most recent Hispanic narrative, linked to the myths of heteronormative masculinity in the Hispanic environment. Narratives by several contemporary authors from Spain and Latin America and films from the international environment related to the subject are studied.

ESHI 6305 Seminar on Literary Research Methods

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

Study of texts related to literary research methods, aimed at delimiting, developing and reviewing a research topic. The steps or stages that are followed to investigate an object of literary study will be examined and discussed. It includes a stage of analysis, followed by the construction of a bibliography and a state of the art, as well as the formulation of hypotheses and the application of theoretical concepts that lead to a monograph of interest for the field of study or novel interpretative writing of the literature.

ESHI/LITE 6396 Literatura Aljamiada de los Moriscos Españoles

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

Study of the clandestine Aljamiado-Moorish literature, written by the Moors in Spain in the sixteenth century, written in a Romance language transcribed from the Arabic alphabet. This astonishing hybrid literature— Castilian and Arabic, written in the Golden Age— includes poems, religious treatises, legends, and historical testimonies of the tragic extinction of Spain's last Muslims. This hybrid literature receives both European and Oriental sources, both thematically and formally.

ESHI 6405 The Spanish of America

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Study of the Latin American linguistic modality and its regional varieties on a historical and cultural basis.

ESHI 6406 The Language of Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Interpretation of the linguistic modality of Puerto Rico on a historical and cultural basis.

ESHI 6409 Dominican Literature: 20th and 21st Century

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

Study of Dominican literature, with special emphasis on the literature of the 20th and 21st centuries within a historical, social, and cultural context. Works, authors and main trends will be analysed, as well as the criticism around them. The relationships between Dominican and Puerto Rican literature will also be studied.

ESHI 6422 Spanish Medieval Literature

Three credits. Three hours of lecture a week. Lectures and readings of selected works.

ESHI 6429 Spanish Romanticism in the Nineteenth Century

Three credits. Three hours of lecture a week.

The expression of Spanish romanticism in the most outstanding works and authors, as an attitude towards life and as a literary phenomenon, encompassing the essential aspects of the culture of the time.

ESHI 6430 Spanish Realism in the Nineteenth Century

Three credits. Three hours of lecture a week.

The Expression of Realism as a Nineteenth-Century Literary and Artistic Movement and a Reaction Against Romantic Subjectivism

ESHI 6431 Galician Literature I

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student with an overview of Galician culture and literature from the 13th to the 20th century.

ESHI 6432 Galician Literature II

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student with an overview of Galician culture and literature from the 13th to the 20th century.

ESHI 6435 Spanish Literature of the Post-Civil War I

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Be a master's or doctoral student Panoramic study of Spanish literature between 1940 and 1970. Analysis of authors and representative works.

ESHI 6436 Spanish Literature of the Post-Civil War II

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Be a master's or doctoral student Panoramic study of post-modern Spanish literature from 1970 to the end of the 20th century. Analysis of the most representative authors and texts.

ESHI 6437 Underdevelopment, Ideology and Literature in Latin America

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

Prerequisite: Baccalaureate students with permission from the direct teacher or master's degree. Study of the Foundations and Sociological Problems of Latin American Literature, and their relationship to ideologies and underdevelopment. It also includes the relationships between literary production, structure and social production.

ESHI 6438 Underdevelopment, Ideology and Literature in Latin America

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

Prerequisite: Baccalaureate students with permission from the direct teacher or master's degree. Study of the Foundations and Sociological Problems of Latin American Literature, and their relationship to ideologies and underdevelopment. It also understands the relationships between literary production, structure and social production.

ESHI 6439 Colonial Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student in the Department of Hispanic Studies A broad overview of the rich discursive range of Spanish-American colonial literature will be presented in order to address – from the texts themselves – the notions that articulate the "journey to the seed" or the theory of the return of our twentieth-century writing.

ESHI 6451 Puerto Rican Dramatic Works

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study and analyze the works of the main authors of Puerto Rican theater in their historical trajectory and evaluate these works in the light of contemporary criticism.

ESHI 6452 Puerto Rican Dramatic Works

Three credits. Three hours of lecture a week.

To study and analyze the works of the main authors of Puerto Rican theater in their historical trajectory, and to evaluate these works in the light of contemporary criticism.

ESHI 6455 Contemporary Spanish Dramatic Works

Three credits. Three hours of lecture a week.

Prerequisite: Be a student of the master's or doctoral program. Study of the main authors and works in contemporary Spain.

ESHI 6456 El Contemporary Spanish Dramatic Works

Three credits. Three hours of lecture a week.

Prerequisite: Be a student of the master's or doctoral program Study of the main authors and works in contemporary Spain.

ESHI 6465 Central American Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student of the Faculty of Humanities Overview course on the literature of Guatemala, El Salvador, Nicaragua, Costa Rica and Panama, from their most remote pre-Columbian antecedents to the present day.

ESHI 6466 Central American Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student of the Faculty of Humanities Overview course on the literature of Guatemala, El Salvador, Nicaragua, Costa Rica and Panama, from their most remote pre-Columbian antecedents to the present day.

ESHI 6467 Guatemalan Literature of the Twentieth Century

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student studying the development of twentieth-century Guatemalan literature, with special emphasis on the analysis of representative texts by major authors such as Arévalo Martínez, Asturias, Cardoza and Aragón, etc.

ESHI 6469 Argentine Literature

Three credits. Three hours of lecture per week Prerequisite: Spanish 4221-4222 or its equivalent Panoramic view of Argentine literature from colonial times to contemporary times.

ESHI 6470 Argentine Literature

Three credits. Three hours of lecture per week Prerequisite: Spanish 4221-4222 or its equivalent Panoramic view of Argentine literature from colonial times to contemporary times.

ESHI 6471 Gaucho Literature

Three credits. Three hours of lecture a week.

Prerequisite: Master's or baccalaureate students with permission of the director. The manifestations of gaucho art in the works of representative authors will be examined: poetry, theater, novel, short story, folklore.

ESHI 6472 Gaucho Literature

Three credits. Three hours of lecture a week.

Prerequisite: Master's or baccalaureate students with permission of the director. The manifestations of gaucho art in the works of representative authors will be examined: poetry, theater, novel, short story, folklore.

ESHI 6473 Antillean Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a student of the master's or doctoral program The Literary Currents of Cuba, Santo Domingo and Puerto Rico, and their Relationship with the Rest of Latin America

ESHI 6474 Antillean Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a student of the master's or doctoral program The Literary Currents of Cuba, Santo Domingo and Puerto Rico. Common characteristics and their relationship with the rest of Latin America.

ESHI 6476 Introduction to Twentieth Century Mexican Theatre

Three credits. Three hours of lecture a week.

Prerequisite: For master's or doctoral students: Study of the main figures and movements of twentieth-century Mexican theater.

ESHI 6477 Introduction to Brazilian Literature

Three credits. Three hours of lecture a week.

A panoramic view of Brazilian literature from the sixteenth century to the contemporary era. Examination of the most important writers and works. Lectures, readings and commentaries on texts.

ESHI 6478 Introduction to Brazilian Literature

Three credits. Three hours of lecture a week.

A panoramic view of Brazilian literature from the sixteenth century to the contemporary era. Examination of the most important writers and works. Lectures, readings and commentaries on texts.

ESHI 6481 Mexican Literature

Three credits. Three hours of lecture a week.

Prerequisite: Director's permission; An overall study of Mexican literature from its origins to the present day.

ESHI 6482 Mexican Literature

Three credits. Three hours of lecture a week.

Prerequisite: Director's permission; An overall study of Mexican literature from its origins to the present day.

ESHI 6486 St. John of the Cross: The Western Tradition and the Semitic Tradition

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

Study of the mystical work of St. John of the Cross, including his poetry and prose, in the light of the intertextual dialogue that the poet maintains with both Western and Semitic traditions (Hebrew and Arabic).

ESHI 6487 Folkloric Literature of Puerto Rico)

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Lectures, readings, research, and analysis of Puerto Rican folklore reflected in poetry and prose.

ESHI 6488 Folkloric Literature of Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Lectures, readings, research, and analysis of Puerto Rican folklore reflected in poetry and prose.

ESHI 6489 Literature and Society in Puerto Rico: Nineteenth and Twentieth Centuries

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Application of the various currents of the sociology of literature to Puerto Rican literary production of the nineteenth and twentieth centuries.

ESHI 6490 Literature and Society in Puerto Rico: Nineteenth and Twentieth Centuries

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Application of the various currents of the sociology of literature to Puerto Rican literary production of the nineteenth and twentieth centuries.

ESHI 6495 Illustration in the Chronicles of the Indies

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director.

Examination of one of the most important sub-categories of the genre of the Indian chronicle, the illustrated chronicle, both in its European expression and in its American versions.

ESHI 6496 Chronicles of the Indies: From the Fourteenth to the Twentieth Century

Three credits. Three hours of seminar per week.

Examination of the Dialogue between Colonial Literature and Contemporary Literature in Latin America (16th-20th Century)

ESHI 6515 Linguistics: Historical-Critical Study

Three credits. Three hours of lecture a week.

Prerequisite: ESPA 4011-4012 and 4205 or their equivalents Historical-critical study of ideas about language and linguistics as a science, from antiquity to the present day with special attention to the relationships between the various conceptions and schools.

ESHI 6516 Linguistics: Historical-Critical Study

Three credits. Three hours of lecture a week.

Prerequisite: ESPA 4011-4012 and 4205 or their equivalents Historical-critical study of ideas about language and linguistics as a science, from antiquity to the present day with special attention to the relationships between the various conceptions and schools.

ESHI 6530 From the Jarchas to Góngora: Western Tradition and Semitic Tradition

Credits: Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of Semitic influences (Hebrew and Arabic) on Spanish literature from its origins to the seventeenth century.

ESHI 6531 From the Jarchas to Góngora: Western Tradition and Semitic Tradition

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of Semitic influences (Hebrew and Arabic) on Spanish literature from its origins to the seventeenth century.

ESHI 6539 The Picaresque Novel

Three credits. Three hours of lecture a week.

Study of the development of this genre, through the critical analysis of the most important works.

ESHI 6540 The Picaresque Novel

Three credits. Three hours of lecture a week.

Study of the development of this genre, through the critical analysis of the most important works.

ESHI/LING 6541 Spanish Morphosyntax

Three credits. Three hours of lecture a week.

Presentation and study of the morphosyntactic level of language, in its application to the Spanish language, and its relations with the phonological, semantic and pragmatic levels, according to the most current models.

ESHI 6545 The Spanish Essay in the Sixteenth and Seventeenth Centuries

Three credits. Three hours of lecture a week.

In this course, we will study the humanistic thought that took place in the Spain of the Golden Age, through different non-fictional prose texts, belonging to different genres and themes, which will constitute the beginnings of the Spanish essay. Historical, religious,

philosophical, Erasmus, ascetic and scientific works will be studied, written in a variety of genres such as epistles, miscellaneous works, dialogues, annotations, speeches, among others, whether published or written clandestinely. Through them we will learn about the humanistic thought of the inquisitorial Spain of the Golden Age expressed by authors such as Fray Antonio de Guevara, the Miguel de Molinos brothers, anonymous authors, Moorish authors, among others, who influenced the greatest writers of the Golden Age.

ESHI 6546 The Spanish Essay to the Generation of '98

Three credits. Three hours of lecture a week.

Exposition and analysis of the main ideas of the most representative essayists of nineteenth-century Spain with a succinct exposition of the precursors of the seventeenth and seventeenth centuries.

XVII

ESHI 6547 The Spanish Short Story

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's and doctoral student in Hispanic Studies Historical-critical panorama of the short story in Spain from its medieval origins to its current manifestations. Analysis of texts that illustrate the development of the genre.

ESHI 6548 Spanish Literature and Journalism in the Nineteenth Century

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student in Analysis of Spanish Literature and Journalism of the Nineteenth Century with an emphasis on the study of Mesonero, Alarcón and Bécquer.

ESHI 6551 The Contemporary Poetry of Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Possess a Bachelor's Degree in Hispanic Studies Graduate Seminary to discover new truths about our poetry and critically examine traditional conceptions of it. The work of all our leading poets of the twentieth century will be analyzed.

ESHI 6552 The Contemporary Poetry of Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Possess a Bachelor's Degree in Hispanic Studies Graduate Seminary to discover new truths about our poetry and critically examine traditional conceptions of it. The work of all our leading poets of the twentieth century will be analyzed.

ESHI 6554 Sociology of Latin American Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study and explanation of the basic concepts elaborated by the sociology of literature. The application of these concepts to Latin American literature constitutes the second phase of this course.

ESHI 6555 Nicaraguan Poetry of the Twentieth Century

Three credits. Three hours of lecture a week.

Prerequisite: Three hours of lecture per week.

Study of Nicaraguan poetry from Rubén Darío to the present with special emphasis on the most outstanding figures such as Salomón de la Selva, Alfonso Cortés, José Coronel Urtecho, Pablo Antonio Cuadra, Carlos Martínez Rivas and Ernesto Cardenal.

ESHI 6556 Lyric Poetry of the Golden Age and Literary Tradition

Three credits. Three hours of lecture a week.

Prerequisite: ESPA 4251-4252, ESPA 3211-3212 In-depth studies of the great lyrical figures of the Golden Age: Garcilaso, Fray Luis de León, San Juan de la Cruz, Herrera, Lope, Góngora and Quevedo, among others. We will work with the analysis of texts in class and with an extensive critical bibliography.

ESHI 6557: Contemporary Hispanic American Poetry

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student in the department of Poetic Avant-Garde in Latin America, which examines the antecedents of this literary phenomenon in modernism and postmodernism, the avant-garde movements themselves, and their poetic repercussions up to the present day. Face-to-face, hybrid and online course.

ESHI 6558 Poetry in Puerto Rico: 2000s

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

Study of Puerto Rican poetics and poetry of the 2000s. Theoretical texts on the poetic fact will be discussed

ESHI 6561 The Novel in Latin America

Three credits. Three hours of lecture a week.

Study of the directions of the Spanish-American novel from its origins to the present day. Critical analysis of the main novels.

ESHI 6562 The Novel in Latin America

Three credits. Three hours of lecture a week.

Study of the directions of the Spanish-American novel from its origins to the present day. Critical analysis of the main novels.

ESHI 6563 The Picaresque Novel in Latin America

Three credits. Three hours of lecture a week.

Prerequisite: Director's permission; This course examines the Spanish-American picaresque novel through a comparative analysis of the genre and the study of the most representative works.

ESHI 6565 The Essay in Latin America

Three credits. Three hours of lecture a week.

Study of this genre through the annotated reading of the most important works.

ESHI 6566 The Essay in Latin America

Three credits. Three hours of lecture a week.

Study of this genre through the annotated reading of the most important works.

ESHI 6567 The Art of the Short Story in Latin America

Three credits. Three hours of lecture per week.

Theory of the creation of the story in its most important expositors.

Critical Examination of the Spanish-American Short Story in Twentieth-Century Texts and Storytellers.

ESHI 6572 The Mexican Essay

Three credits. Three hours of lecture a week.

Study of the Mexican essay from its origins in the nineteenth century to the present day, based on representative authors.

ESHI 6573 Narrative Techniques in the Novel

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student studying traditional and experimental narrative techniques in the contemporary Spanish-American novel.

ESHI 6575 Theoretical-Analytical Reading of Latin American Texts

Three credits. Two hours of lecture and one hour of lab or workshop per week. Prerequisite: B.A. in Hispanic Studies or Comparative Literature or graduate student.

Establish critical models based on theoretical systems applied to the analytical reading of Latin American texts.

ESHI 6580 Narrative Literature in Puerto Rico

Three credits. Three hours of lecture a week.

History of the novel and short story in Puerto Rico, mostly from 1843 to the present day.

The course will be mainly done with the study and explanation of texts.

ESHI 6585 The Trial in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student studying the development of the essay in Puerto Rico through representative authors and texts.

ESHI 6586 Literature and the Public Sphere in Puerto Rico

Three hours. An hour and a half of lecture and an hour and a half of discussion per week. It is a tour of specific publications of the 19th and 20th centuries in Puerto Rico, seeking to see what kind of public sphere is proposed or projected. It will study the way in which Puerto Rican writers have used their lyrics as an instrument of democratization. Due to the tight censorship on the island during the 19th century, writing or speaking publicly on any subject that referred to the common good was extremely difficult. That is why, when referring to this specific moment, we will see the discursive strategies used by local writers to set in motion

the creation of this sphere, so that literature will be studied paying attention to the modernizing consequences that are expected to be achieved with it. In the 20th century, the changes imposed by the U.S. invasion in terms of the production of public discourse will be examined, in addition to those caused by the island's entry into industrial modernity.

ESHI 6587 Costumbrismo y Criollismo en la Literatura Puertorriqueña

Three credits. Three hours of lecture a week.

Discussion and examination of this topic as an aesthetic and cultural manifestation within the Latin American sphere, through the study of works by various Puerto Rican authors; types, customs, traditions and folklore. Reading and commenting on texts, reports and conferences.

ESHI 6588 Costumbrismo y Criollismo en la Literatura Puertorriqueña

Three credits. Three hours of lecture a week.

Discussion and examination of this topic as an aesthetic and cultural manifestation within the Latin American sphere, through the study of works by various Puerto Rican authors; types, customs, traditions and folklore. Reading and commenting on texts, reports and conferences.

ESHI 6597 Spanish Meter and Rhythm

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Theoretical and practical analysis of the various Spanish metrification and rhythmic systems from the Middle Ages to the present. Lectures, readings and constant laboratory practices.

ESHI 6598 Spanish Metric & Rhythmic

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Theoretical and practical analysis of the various Spanish metrification and rhythmic systems from the Middle Ages to the present. Lectures, readings and constant laboratory practices.

ESHI 6627 Don Quixote de la Mancha

Three credits. Three hours of lecture a week.

An annotated reading of Don Quixote aimed at showing its aesthetic value.

ESHI 6628 Don Quixote de la Mancha

Three credits. Three hours of lecture a week.

An annotated reading of Don Quixote aimed at showing its aesthetic value.

ESHI 6631 The Spanish Novel of the Twentieth Century

Three credits. Three hours of lecture a week.

Examination of the panorama of the Spanish novel of the current century from the generation of '98 to contemporary production.

ESHI 6632 The Spanish Novel of the Twentieth Century

Three credits. Three hours of lecture a week.

Examination of the panorama of the Spanish novel of the current century from the generation of '98 to contemporary production.

ESHI 6633 The Novels of Galdós

Three credits. Three hours of lecture a week.

Prerequisite: be a master's or doctoral student A seminar on the problems presented by the novels of Benito Pérez Galdós. Reading, analysis of texts and monographs on the various aspects of his work.

ESHI 6634 The Novels of Galdós

Three credits. Three hours of lecture a week.

Prerequisite: be a master's or doctoral student A seminar on the problems presented by the novels of Benito Pérez Galdós. Reading, analysis of texts and monographs on the various aspects of his work.

ESHI 6636 Azorín

Three credits.

Prerequisite: Be a master's or doctoral student in the Department of Hispanic Studies A seminar in which Azorín's literary work will be examined in the light of the Spanish problems of his time, its aesthetic values and contributions to contemporary peninsular literature.

ESHI 6637 The Novella in the Golden Age

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

Prerequisite: ESPA 3211-3212, 4251-4252; be a graduate student; Professor's Permission for Undergraduate Students Analysis of the development of the novel in the Golden Age taking into account the Italian precedents of the genre (specifically Boccaccio, Cintio and Bandello) and its literary manifestation in three Spanish authors: Migue de Cervantes, Lope de Vega, María Zayas and Sotomayor.

ESHI / LITE 6665 Jorge Luis Borges and the Theory of Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Examination of Borges' work and his theory of language and literary phenomenon.

ESHI / LITE 6666 Modernism and Modernity

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director The presence of urban sensibility in the poetics of three representative authors of modernism: Martí, Darío and Lugones.

ESHI 6683 The Generation of '30 in Puerto Rican Literature I-II

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Critical study of the authors who make up the generation of the 30s and their aesthetic values in light of its importance as a group of renewal in twentieth-century Puerto Rican literature.

ESHI 6684 The Generation of '30 in Puerto Rican Literature I-II

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Critical study of the authors who make up the generation of the 30s and their aesthetic values in light of its importance as a group of renewal in twentieth-century Puerto Rican literature.

ESHI 6695 Theatrical Semiotics

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student in the analysis and interpretation of theatre based on the theory of language, the semiotics of culture, literature and drama. The practical application of the theory is based on texts from the Golden Age and Latin America.

ESHI 6705 Problems of Puerto Rican Literature

Three credits. Three hours of lecture a week.

Study of the main problems presented by Puerto Rican literature to those who dedicate themselves to its study and research. Lectures, discussion, analysis of problems and commentary of theoretical texts on the problems studied.

ESHI 6811 The Hispano-American Theatre

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student in the Department of Hispanic Studies.

Study of the development of Latin American theater, the authors and main works and the criticism around this genre.

ESHI 6812 El Teatro Hispanoamericano

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student in the Department of Hispanic Studies.

Study of the development of Latin American theater, the authors and main works and the criticism around this genre.

ESHI 6997 Seminar on Hispanic Literatures

One to six credits. One hour of discussion and two hours of seminar per week. Seminar in which current approaches are made to various topics of Hispanic literature. The course can be repeated up to a maximum of six credits with topics of study each time the student enrolls. From January 2019 onwards, it can be repeated up to a maximum of 15 credits.



Mailing Address: 13 University Ave, Ste 1301, San Juan, Puerto Rico 00925-2533

Director: Dr. Emilio Ricardo Báez Rivera

Phone extensions: (787) 764-0000, extensions 89495, 89504

Graduate Program e-mail address: pgeh.rrp@upr.edu **Portal:**

https://humanidades.uprrp.edu/graduados/?page_id=566

DEGREE: Doctor of Philosophy with a specialty in Hispanic Studies

Research Centers:

Multidisciplinary Studies Seminar

Federico de Onís Seminar: This Seminar is one of the most important research centers in Puerto Rico and the Caribbean, and is visited by researchers from all over the world. The Seminary publishes the Journal of Hispanic Studies. The Seminary's projects and research also include the preservation and conservation of rare books, first editions, and the cataloguing of the archives of Federico de Onís, Concha Meléndez, and Antonio S. Pedreira. Conferences, discussions and thesis defenses are some of the activities that take place in this Seminar.

Publications

Revista de Estudios Hispánicos – journal of Hispanic language and literature

TEACHERS:

Emilio Ricardo Báez Rivera, Ph.D., University of Seville, 2005. Professor. Colonial Spanish-American Literature, Spiritual Autobiography, Transatlantic Hispanic Mysticism (ss. XVI-XXI).

Rafael Alberto Bernabe Riefkhol, Ph.D., State University of New York, Binghamton, 1989. Professor. Sociology, Puerto Rican literature.

Sunny Cabrera Salcedo, Ph.D., University of Massachusetts, Amherst, 1999. Professor. Hispanic Linguistics.

Sofía Irene Cardona Colom, Ph.D., University of Massachusetts, 1988. Professor. Contemporary Spanish Literature.

María Inés Castro Ferrer, Ph.D., University of Puerto Rico, 2002. Professor. Hispanic Linguistics.

Fernando Alfonso Feliú Matilla, Ph.D., University of California, Davis, 1994. Professor. Puerto Rican Literature, 19th and 20th Centuries.

Rosa Elisa Guzzardo Tamargo, Ph.D., The Pennsylvania State University, 2012. Associate Professor. Hispanic linguistics, bilingualism, psycholinguistics.

María Luisa Lugo Acevedo, Ph.D., University of Puerto Rico, 1995. Professor. Spanish and Aljamiada Literature of the Golden Age.

Doris Evelyn Martínez Vizcarrondo, Ph.D., Universidad Autónoma de Madrid, 1998, Hispanic Linguistics.

Miguel Ángel Náter Maldonado, Ph.D., University of Puerto Rico, 2002. Professor. Hispanic American and Puerto Rican Literature; Spanish-American Theatre and Modernism.

María Teresa Narváez Córdova, Ph.D., University of Puerto Rico, 1988. Professor. Spanish and Aljamiada Literature of the Golden Age.

Luis Alfredo Ortiz López, Ph.D., University of New Mexico, 1996. Professor. Hispanic Linguistics and Hispanic Dialectology.

Juan Otero Garabís, Ph.D., Harvard University, 1998. Professor. Puerto Rican and Caribbean Literatures and Cultures; Cultural Studies.

Melanie Ann Perez Ortiz, Ph.D., Stanford University, 1999. Professor. Latin American and Puerto Rican Literature.

Carmen Ivette Pérez Marín, Ph.D., Harvard University, 1990. Professor. Latin American Literature.

Pamela F. Phillips, Ph.D., Washington University, St. Louis, 1997. Professor. Spanish literature of the eighteenth century.

Zaira O. Rivera Casellas, Ph.D., University of Massachusetts, Amherst, 2003. Professor. Editorial staff; Puerto Rican and Caribbean literature.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Doctoral Programme:

1. Have a Master's degree in Hispanic Studies or a related area.
2. Have a 3.00 or higher average
3. Send Two Letters of Recommendation
4. Submit Your Letter of Intent
5. Students who have not completed a Master's Degree in Hispanic Studies or related area may be required to have some co-requisites based on their academic record.

GRADUATION REQUIREMENTS:

1. Pass thirty credits of graduate courses.
2. Pass a degree exam.
3. Approve a thesis or project proposal.
4. Approve a thesis or project.
5. Take six credits in the same modern language in any modality (intensive or for researchers).
6. Take six credits in Latin.

PROGRAM OF STUDY:

The PhD is offered with a major in Hispanic Studies. Through the selection of courses and, through the degree exam and the thesis project carried out by the student, he/she will be able to orient his/her studies towards Spanish Literature, Hispanic American Literature, Puerto Rican Literature or Hispanic Linguistics.

Program Requirements	Credits
ESHI 8701-8702 Advanced Research	6
Supervised Courses	24
ESHI 8890 Degree Examination or ESHI 8900 Candidacy Examination	0
Oral defence of the thesis and delivery of the doctoral thesis in printed format and in UMI	0
ESHI 8891 PhD Thesis	0
ESHI 8892 Doctoral Thesis Continuation	0
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the latest recorded in the Student Information System of the Río Piedras Campus Registrar's Office as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ESHI 8701 Advanced Research

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Limited to students who possess a Master of Arts degree or equivalent preparation and who wish to conduct original research on a department-approved topic. Enrolment with prior authorisation from the director of the department.

ESHI 8702 Advanced Research

Three credits. Three hours of lecture a week.

Limited to students who possess a Master of Arts degree or equivalent preparation and who wish to conduct original research on a topic approved by the department. Enrolment with prior authorisation from the director of the department.

ESHI 8890 Degree Exam

No credit.

This course is for students who are preparing to take the undergraduate exam before enrolling in a thesis. The student may enroll in this course for a maximum of two semesters. The student may withdraw only once.

ESHI 8900 Candidacy Exam

No credit.

Exercise equivalent to the doctoral degree exam (ESHI 8890). The student must demonstrate solvent knowledge in the selected area of specialization within Hispanic studies and capacity for research and writing in the doctoral program, through the exercise of three publishable monographs. It carries zero credits and a full academic load.

ESHI 8891 PhD Thesis

No credits.

Prerequisite: Total requirements for the bachelor's degree Preparation of the doctoral degree thesis.

ESHI 8892 Doctoral Thesis Continuation

No credit.

Prerequisite: total credits required for the degree; ESHI 8891

Continuation of the preparation of the doctoral degree thesis.

The student may enroll in the course for up to a maximum of 8 semesters according to communication received from the Graduate Program of the Faculty of Humanities.

OTHER COURSE DESCRIPTIONS:

ESHI 8005 Two Galician Writers: Rosalía de Castro and Emilia Pardo Bazán

Three credits. Three hours of lecture a week.

Study of the most representative works in prose and verse of Galician women writers.

ESHI 8006 Alfonso Reyes

Three credits. Three hours of lecture a week.

Prerequisite: ESPA 3211-3212; ESPA 4221-4222 or permission of the director Integral study of the literary personality of the Mexican humanist, with special emphasis on his considerations regarding Hispanic letters. It approaches Alfonso Reyes as an essayist, narrator, poet, researcher, literary theorist and critic.

ESHI 8007 Garcilaso de la Vega and San Juan de la Cruz

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission The course explores in depth the works of two famous poets of the Golden Age: Garcilaso de la Vega and San Juan de la Cruz and the critical studies to which they have been subjected. The two poets will be confronted in view of the very different literary works they produce: Garcilaso de la Vega starts mainly from Greco-Latin and Italian sources, and San Juan, who incorporates these sources, also reflects, however, important Semitic poetic influences (Hebrew and Arabic).

ESHI 8008 The Baroque in the Current Cuban Novel

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission The Role of the Baroque Style in the Literary Production of Five Contemporary Cuban Novelists.

ESHI 8002 The Literary Work of José Asunción Silva

Three credits. Three hours of seminar per week.

Study of the literary work of the Colombian writer José Asunción Silva. The importance of his poetry and narrative for the development of modernism in Latin America will be highlighted.

ESHI 8009 Current Spanish Literature: Novel, Theatre

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student in the Department of Hispanic Studies A seminar on the Spanish novel and theatre from 1940 to the present. Readings, short lectures, oral and written reports on authors and representative works of the post-war period. Hybrid and online face-to-face course.

ESHI 8010 Juan Ramón Jiménez, Poetry and Poetics

Three credits. Three hours of seminar per week.

Study of the poetry and poetics of Juan Ramón Jiménez, Nobel Prize in Literature, in the light of the published work or through the consultation of the documentary legacy at the UPR- manuscripts with variants of his poems, notes of reflection or correspondence.

ESHI 8015 Argentine Poetry of the Twentieth Century

Three credits. Three hours of lecture a week.

Study of twentieth-century Argentine poetry, studying its different orientations, styles, figures and most representative works.

ESHI 8016 Current Spanish Literature: Poetry

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate master's and doctoral student of the Department of Hispanic Studies A seminar on Spanish lyric poetry from the generation of 1936 to the present.

Readings, conferences, oral and written reports on the most representative movements, authors and works of this period.

ESHI 8017 The Poetry of Julia de Burgos

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student studying the poetic work of Julia de Burgos and its values in Puerto Rican literature. Lectures, text analysis, reports, discussion.

ESHI 8018 The Poetry of Evaristo Ribera Chevremont

Three credits. Three hours of lecture a week. Prerequisite: Be

a graduate student Essential insight into your poetry with its stages, themes, and forms.

ESHI 8019 The Poetry of Luis Palés Matos

Three credits. Three hours of lecture a week.

Study of the poetry of Luis Palés Matos in its various literary contexts: modernism, postmodernism, avant-gardism and Afro-Antillean poetry.

ESHI 8020 Language Problems of Contemporary Spanish in Puerto Rico

Three credits. Three hours of seminar per week.

Prerequisite: ESHI 6406 Puerto Rican Spanish or its equivalent.

Requirements: Have a basic knowledge of the history of Puerto Rico, the history of the U.S., and the history of Latin America.

Analysis of contemporary Spanish in Puerto Rico taking into account its formation and evolution during the twentieth century. Special attention will be given to the problems that have arisen from their contact with English. Topics such as language policy, legislation generated in this regard, the acquisition and teaching of the vernacular, as well as the teaching of English as a second language, among others, will be discussed.

ESHI 8025 The Poetry of Rubén Darío

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student studying the poetic work of Rubén Darío, highlighting its importance in the history of Hispanic poetry.

ESHI 8026 Emigration Literature in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Master's or doctoral students Study of the literature of Puerto Rican emigration to the United States.

ESHI 8027 Field Linguistic Research

Three credits. One hour of lecture and two hours of research per week. Doctoral course of field research on Spanish.

Different theoretical models of description, linguistics, introspective, analytical, experimental, their relevance in the study of Spanish and the methodological principles and strategies of field research are studied. Data collection was carried out in a real-speaking community in the Latin American-Caribbean environment. The linguistic analysis of the phonological, lexical, morphological, syntactic and pragmatic aspects of the corpus will allow us to ponder the features of orality and the semantic and pragmatic roles contextualized socially and culturally, while developing the skills and competencies necessary to carry out research in the field and test the theoretical approaches and possible hypotheses about Spanish that have been proposed.

ESHI 8028 Pragmatics for Hispanists

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

Doctoral level course in Hispanic Pragmatics. It explores the theoretical postulates of scholars, such as those proposed by Morris-Carnap, Wittgenstein, Austin and Searle, Grice, Anscombe and Ducrot, Halliday, Van Dijk and Blakemore, which relate language as an abstract system to its use and attempts to establish its relevance in the study of Spanish. Some of the most salient aspects of pragmatics will be studied, such as deixis implicature and involvement, presupposition and intentionality. Courtesy, power structures and conversational analyses of colloquial conversation samples will be carried out.

ESHI 8029 Latin American Literary Theory and Criticism

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

Study of the historical development of literary theory and criticism in Latin America during the twentieth century, through its fundamental texts. They highlight both the specificity of Latin American literatures and their historical valuation and development. The rhetorical dimension and the historical context in which the texts under study emerge are carefully considered. Critical and theoretical essays by Pedro Henríquez Ureña, Alfonso Reyes, Octavio Paz, Noé Jitrik, Ángel Rama, Josefina Ludmer, and Antonio Cornejo Polar will be included.

ESHI 8031 Castilian Medieval Prose I

Credits: 3 Study of medieval Castilian prose in its historical, didactic and legal texts, Los "exiemplos" and the literature of preaching.

ESHI 8032 Castilian Medieval Prose II

A study of medieval Castilian prose through the novel of chivalry and sentimental and chivalric stories, travel and cosmographic books, poetics, exegesis and grammar.

ESHI 8035 The Narrative Works of José Donoso

Three credits. Two hours of lectures and one hour of discussion per week. Prerequisite: Be a student of any graduate program of the Faculty of Humanities, Education, Social Sciences, Communication or Professor's Permit. Analysis of José Donoso's most important narrative works and their relevance to the Spanish-American novel. Critics will discuss the development of the new novel and the boom, and specifically about Donoso's work.

ESHI 8036 Seminar on Current Issues in Hispanic Linguistics

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

Seminar in which current approaches are made to varied or new topics in Hispanic linguistics. The course can be repeated up to a maximum of 15 credits with different topics of study each time the student enrolls.

ESHI 8037 Hispanic Sociolinguistics

Three credits. Three hours of seminar per week.

Prerequisite: Hispanic linguistics or equivalent course Study of the theoretical and methodological postulates of sociolinguistics and their application to the various varieties of Spanish. Synchronic analysis of the links between phonetic, morphosyntactic and lexical-semantic variants of Spanish and the linguistic, sociolinguistic and pragmatic factors that condition them. Students will design and develop a sociolinguistic variation project in Spanish.

ESHI 8415 Spanish Historical Grammar

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students A diachronic and synchronic study of the phonetics, morphosyntax, and grammatical categories of Spanish from Vulgar Latin.

ESHI 8416 Spanish Historical Grammar

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Study of the origins, development and current status of the phonetic, morphological and syntactic aspects of the Spanish language.

ESHI 8431 Castilian Medieval Theatre

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Study of medieval Castilian theatre from its origins to Juan del Encina and Lucas Fernández, considering its liturgical and Latin antecedents and its prolongation in the Codex of its old cars. Lectures and text analysis.

ESHI 8434 The Generation of '98

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student.

Critical study of the authors who make up the generation of '98 and their aesthetic values in light of its importance as a group of renewal in twentieth-century

Hispanic literature.

ESHI 8435 The Generation of '98

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student.

Critical study of the authors who make up the generation of '98 and their aesthetic values in light of its importance as a group of renewal in twentieth-century

Hispanic literature.

ESHI 8436 The Generation of the Seventies in Puerto Rican Literature

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

Texts produced by Puerto Rican writers of the so-called generation of the seventies of the twentieth century will be read and analyzed, paying attention to the content and form. In addition, the ways in which academics have commented on and analysed them will be studied, in dialogue with the generations of the 40s and 50s that preceded it and the writing that followed.

ESHI 8447 Introduction to the Poetry of Góngora

Three credits. Three hours of lecture a week.

Reading and comprehension of Góngora's poetic work. Examination of texts, lectures, reports, examination of the critics of Góngora and final evaluation of his poetry as a literary art.

ESHI 8448 Introduction to the Poetry of Góngora

Three credits. Three hours of lecture a week.

Reading and comprehension of Góngora's poetic work. Examination of texts, lectures, reports, examination of the critics of Góngora and final evaluation of his poetry as a literary art.

ESHI 8453 The Poetic Generation of 1927

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Analytical study of this poetic generation (1927-1936) in the light of avant-garde poetry. Lectures, reports, analysis and explanation of texts.

ESHI 8463 The Narrative of Alejo Carpentier

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student In this course, the themes, structures, and styles of the author's novels are studied.

ESHI 8465 Seminar: Orientalism and Identity in Spanish Literature

Three credits. Three hours of seminar per week.

This course raises the issue of Orientalism and identity in the beginnings of Spanish literature and its resurgence in twentieth- and twenty-first-century Spain. Works and authors from this period will be studied with the aim of analysing the beginning, changes and approaches of Spanish identity in its relationship with Orientalism.

ESHI 8466 Advanced Literary and Cultural Theory Seminar

Three credits. Three hours of seminar per week.

Prerequisite: Be a student of any graduate program at the Río Piedras Campus.

A detailed study of representative texts of a current of literary and cultural theory of the twentieth and twenty-first centuries. The course includes an initial consideration of the constituent elements of literary or cultural theory. It is proposed to strengthen the theoretical training of graduate students. It has a monographic character: in each semester that it is taught, a current of theoretical thought will be explored. The course can be repeated up to a maximum of 6 credits with different topics of study each time you enroll.

ESHI 8479 Contemporary Antillean Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of contemporary Antillean literature through the reading, analysis and explanation of the most representative texts and authors.

ESHI 8509 Advanced Styling

Three credits. Three hours of lecture a week.

Spoken language and literary language in its affective and imaginative aspects.

ESHI 8510 Advanced Styling

Three credits. Three hours of lecture a week.

Spoken language and literary language in its affective and imaginative aspects.

ESHI 8513 Literary Criticism: Theory and Practice

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Study of Literary Criticism: Concept, History and Major Contemporary Currents.

ESHI 8519 Hispanic Dialectology

Three credits. Seven and a half hours of lecture per week.

Prerequisite: Specialized courses in Spanish Historical description of the origin, formation, and evolution of archaizing dialects. Analysis of the current state and functioning of innovative dialect systems.

ESHI 8525 The Spanish Medieval Songs of Deeds

Three credits. Three hours of lectures, discussions, and readings Prerequisite: Master's and PhD student Diachronic and synchronic study of the songs and fragments of the medieval Spanish epic that, in addition to El Cantar del Mío Cid, have been preserved. Learning philological and palaeographic techniques. Its aesthetic and historical values are also considered.

ESHI 8527 Four Lyricists of the Twentieth Century: Unamuno, Machado, Juan Ramón Jiménez and León Felipe

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of four great Spanish poets representative of our century.

ESHI 8537 Court Contempt in the Sixteenth and Seventeenth Centuries

Three credits. Three hours of lecture a week.

The course aims to examine a large part of the poems dedicated in the Golden Age to the cultivation of this feeling. In the first part, we will highlight those authors and works of classical antiquity that have influenced the formation and development of anti-court sentiment. The historical trajectory of the theme will be traced until its culmination in the Golden Age.

ESHI 8539 Seminar: Picaresque Genre Theory

Three credits. Seminar on the theory of the picaresque genre from the historical-social model to the structural model (Maravall, Lázaro Carreter, Claudio Guillén, Wicks, Cabo Aseguinolasa, Bataillon, Parker, Moreno Báez, among others) based on the examination of fundamental works that present the beginning, culmination and decline of this genre in Spain.

ESHI 8540 Seminar: Modalities of the Spanish Picaresque: Continuations, Sequels and the Female Picaresque

Three credits. Three hours of seminar per week.

Seminar on the continuations and sequels of the picaresque novel in Spain, its influence on other Spanish authors and the breaking of genre barriers with the birth of the picaresque.

ESHI 8542 The Primitive Iberian Lyric and the Traditional Songbooks

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student studying primitive Iberian lyric and poetry from traditional songbooks.

ESHI 8543 Spanish Poetry of the Eighteenth Century

Three credits. Three hours of lecture a week.

Study and analysis of eighteenth-century Spanish poetry, in the light of the historical, cultural and aesthetic background of the works of the respective authors of the time.

ESHI 8544 Spanish Prose and Theatre in the Eighteenth Century

Three credits. Three hours of lecture a week.

A critical examination of the thought and sentiment of eighth-century Spain based on readings of works and prose selections and a study of the tendencies and trajectory of theatre through the analysis of the most outstanding productions in this genre.

ESHI 8549 The Theme Of The Tongue In Unamuno

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate school or fourth-year high school student. A study of an essential aspect of Unamuno's intellectual life: his constant preoccupation with language: its nature, its mission, its meaning in the development of human life, and its implications for culture. The theme of language in Unamuno will be seen in its three basic facets: language as communication, as a means of expression and as an instrument of artistic creation.

ESHI 8557 The Theatre of Lope de Vega

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD student An introduction to the main themes and problems of Lope de Vega's theatre through the systematic analysis of representative works by the author.

ESHI 8559 El Teatro de Calderón de la Barca

Three credits.

Prerequisite: Be a master's or doctoral student A study of Calderonian theatre as a manifestation of the Spanish Baroque. Lectures, readings, reports on the writer's work.

ESHI 8564 El Teatro de Florencio Sánchez

Three credits. Three hours of lecture a week. Prerequisite: Be a master's or doctoral student Study of Florencio Sánchez's theatre and its socio-cultural environment.

ESHI 8568 The Spanish-American Modernist Novel

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student in the analysis and interpretation of novels by various authors representative of Latin American modernism.

ESHI 8570 The Contemporary Peruvian Novel

Three credits. Three hours of lecture a week.

Prerequisite: Two previous courses in Latin American literature on traditional elements in Peruvian narrative. Oral history; pre-Hispanic traits; the vision of the chronicles; the process from Garcilaso to Palma; our modernist tale; Inca legend, fantasy, providence. Indigenism and its derivations. Study of the works of Martín Adán, Ciro Alegría, José María Arguedas, Julio Ribeiro and Mario Vargas Llosa.

ESHI 8575 The Poetry of Gabriela Mistral

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student An analytical study of the poetic work of this Chilean writer. Readings, lectures and reports.

ESHI 8576 The Prose of Gabriela Mistral

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Annotated reading of Gabriela Mistral's prose to highlight the human values of this little-known aspect of Chilean writing.

ESHI 8577 The Contemporary Spanish Essay

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of the essay genre within twentieth-century Spanish literature through the main authors and the most representative essays.

ESHI 8586 The Naturalist Novel in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of Naturalism in Puerto Rico: French and Spanish Influences, Historical-Literary Development, and Analysis and Interpretation of the Major Puerto Rican Naturalist Novels.

ESHI 8589 Magical Realism in Contemporary Hispanic American Literature and Criticism

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Studies of the concept of magical realism, its abstract conceptions and realization as a literary structure. Definition of concepts and application to Latin American literary criticism through the analysis of literary and critical texts.

ESHI 8591-8592 Modernism in Puerto Rican Literature

Three credits. Three hours of lecture a week.

Introduction, Development and Function of Modernism and Literary Isms (1913-1941). Based on lectures and discussion of texts in verse and prose by representative authors.

ESHI 8593 Contemporary Puerto Rican Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of contemporary Puerto Rican literature through the reading and analysis of its most representative authors and works.

ESHI 8595 Structure and Society in the Contemporary Hispanic American Novel

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of current sociological and structural currents according to the new criticism and applied to the analysis of current Latin American novels.

ESHI 8597 José María Arguedas and Indigenism

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student A study of the literary works, techniques, and style of this Peruvian author and their relationship to the Spanish-American indigenist novel.

ESHI 8603 Linguistics and Literary Theory

Three credits. Seven and a half hours of lectures per week.

Application of linguistic principles to the study and analysis of literary texts. This course includes: Historical Point of View; modern schools: idealism, structuralism, and stylistics; literary problems. Seminar-type course.

ESHI 8615 Mystique and Poetry of Saint Rose of Lima

Three credits. Three hours of seminar per week.

Prerequisite: Be a graduate student of the faculties of Humanities, Education or Social Sciences.

A study of the mysticism and poetry of Saint Rose of Lima based on her declarations by confession and the icono-lexical literary discourse in her two holographs. The nature of his extraordinary experiences in the light of Renaissance mystical theology will be discussed, as well as the cultural currents of his plastic-literary expression. Special attention will be paid to both the inquisitorial processes of beatification and the two holographs that are preserved and that are, even today, very little known by literary critics as the primary sources of his thought.

ESHI 8619 The Poetry of Miguel Hernandez

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Presentation and examination of the poetry of Miguel Hernández, as one of the members of the so-called Spanish generation of 1936. And a study of the different contemporary tendencies of Spanish poetry, as reflected in his work.

ESHI 8621 El Cantar del Mío Cid

Three credits. Three hours of lecture a week.

Commented reading and study of the value and influence of this work on later literature.

ESHI 8622 The Book of Good Love

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Cultural outline of The Book of Good Love. The problem of manuscripts, sources, structure, poetic form, and style.

ESHI 8623 La Celestina

Three credits. Three hours of lecture a week.

Commented reading and study of the value and influence of this work on later literature.

ESHI 8635 Horacio Quiroga

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Study and analysis of Quiroga's storyteller: its content, form and narrative world.

ESHI 8641 The Literary Work of Juan Goytisolo

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students The work of Juan Goytisolo is studied in two aspects: one panoramic and the other representative. In the first, the work is described and studied in its entirety; In the second, the most representative novels and the main aspects of his work are examined. In this way, the student is provided with an accurate critical vision and a better understanding of Goytisolo's work.

ESHI 8647 One Hundred Years of Solitude

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Detailed study of the novel One Hundred Years of Solitude by Gabriel García Márquez as a culminating work in the production of its author and as an example of current trends in Hispanic American narrative.

ESHI 8651 Poetry by Federico García Lorca

Three credits. Three hours of lecture a week.

Analysis of the poetic work of Federico García Lorca and its situation within the framework of Spanish poetry and modern art. Sources of poetry, characteristics of substance, form and language. Lectures, text analysis and reports.

ESHI 8652 The Theatre of Federico García Lorca

Three credits. Three hours of lecture a week.

Analysis of the dramatic work of Federico García Lorca and its situation within the framework of Spanish theatre and modern dramatic art. Sources of this theatre, characteristics, text analysis and reports.

ESHI 8653 The Mexican Novel

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Study of the most significant trends, authors, and works of the Mexican novel from 1816 to 1910. The study will be preceded by a historical-cultural introduction to Mexico.

ESHI 8654 The Mexican Novel

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students Study of the most significant trends, authors, and works of the Mexican novel from 1816 to 1910. The study will be preceded by a historical-cultural introduction to Mexico.

ESHI 8655 The Work of Valle Inclán

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

Graduate studies Study of the literary work of Valle Inclán. Prose and poetry.

ESHI 8656 The Literary Work of Valle Inclán

Three credits. Three hours of lecture a week.

Prerequisite: Graduate studies Study of the literary work of Valle Inclán. The theatre.

ESHI 8657 The Literary Work of Baltasar Gracián

Three credits. Three lecture hours a week.

A seminar on the literary work of Baltasar Gracián. Analytical study of the structure, technique, and style of his major literary works.

ESHI 8661 The Poetry of Leopoldo Lugones

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Analysis of Lugones' poems in the light of their sensory, affective and logical content.

ESHI 8663 José Martí

Three credits. Three hours of lecture a week.

Study of the personality and work of José Martí with special attention to his thought a its literary expression. Lectures and text commentaries.

ESHI 8664 José Martí

Three credits. Three hours of lecture a week.

Study of the personality and work of José Martí with special attention to his thought a its literary expression. Lectures and text commentaries.

ESHI 8667 Martín Fierro

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student It offers the necessary information about the historical and social background in which Martín Fierro appeared and about the trajectory that culminates in it. In particular, he studies the essential aspects of the poem in order to obtain a total vision of it, its literary values and its significance in Hispanic letters.

ESHI 8670 Literature and Urban Culture in Mexico

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

Study of the representation of urban culture in novels, testimonies, urban chronicles and cultural essays, as well as in other artistic practices (popular song, photography and architecture) that coincide with the process of modernization in Mexico (1940-1970). The analysis of texts by Ramos, Novo, Paz, Monsivais, Fuentes, Poniatowska and Blanco will alternate with the study of Mexican boleros, the photography of Álvarez Bravo and the architecture of Pani, the essays on urban culture and cultural studies by Benjamin, Certeau, Easthope and García Canclini will constitute the theoretical framework of the course.

ESHI 8671 The Chilean Novel

Three credits. Three hours of lecture a week.

A panoramic examination of the development of the Chilean novel from its beginnings to the present day. Study and evaluation of this novel through the analysis of the works of the most representative authors: Mariano Latorre, Eduardo Barrios, Pedro Prado and others.

ESHI 8672 The Chilean Novel

Three credits. Three hours of lecture a week.

A panoramic examination of the development of the Chilean novel from its beginnings to the present day. Study and evaluation of this novel through the analysis of the works of the most representative authors: Mariano Latorre, Eduardo Barrios, Pedro Prado and others.

ESHI 8673 The Novel of the River Plate

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of the historical development and analysis of the problems of the narrative of the Río de la Plata from its beginnings to the present.

ESHI 8674 The Novel of the River Plate

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Study of the historical development and analysis of the problems of the narrative of the Río de la Plata from its beginnings to the present.

ESHI 8675 The Contemporary Chilean Novel

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student An analytical study of the most representative authors and works of the contemporary Chilean novel.

ESHI 8677 The Literary Work of Sor Juana Inés de la Cruz

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

Prerequisite: Be a student of any graduate program in the faculties of Humanities, Education, or Social Sciences.

Study of the literary discourse of Sor Juana Inés de la Cruz. The thought of the tenth muse will be discussed, in the light of the patriarchal ideology of her time, in the two spaces where

she stood out as an intellectual woman: the Viceregal court and the convent cloister. A selection of texts representative of the generic-literary typology that Sor Juana cultivated will serve as a corpus, depending on the circumstances and her recipients.

ESHI 8682 Juan Antonio Corretjer

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students The course considers the author's participation in the history of Puerto Rico as a source for understanding and interpreting the ideological bases of his or her works. It takes into consideration his literary production within the development of Puerto Rican literature and studies the aspects of his style while analyzing it in a comprehensive way.

ESHI 8688 Manuel Zeno Gandía

Three credits. Three hours of lecture a week.

Study and commentary of the work of this Puerto Rican novelist within the framework of its literary atmosphere. Lectures, reading of texts and reports.

ESHI 8689 Eugenio María de Hostos

Three credits. Three hours of lecture a week.

Prerequisite: Master's or PhD students with authorization from the supervisor. Study of his life and work.

ESHI 8694 The Poetry of César Vallejo

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student A study of César Vallejo's poetic works, their place in Latin American literature, sources, content, form, and language.

ESHI 8991 Spanish Discourse Analysis

From one to six credits. Three hours of seminar per week.

Seminar on a variety of topics aimed at the discourse of the Spanish language. It can be repeated with different topics up to a maximum of six credits.



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DEGREE: Master of Arts with a specialty in Philosophy

TEACHERS:

Dialitza Colón Pérez, Ph.D. Assistant Professor. Universitat Autònoma de Barcelona, 2012. Aesthetics, Philosophy and Cinema.

Raúl de Pablos Escalante, Ph.D. Professor. Complutense University, Madrid, 2012. Associate Professor. Modern and Contemporary Philosophy, especially Spinoza and Nietzsche.

Etienne Helmer, Ph.D. Professor. Université de Paris I Panthéon Sorbonne, 2004. Assistant Professor. Ancient Philosophy, Ethics, and Politics, especially Plato, and Philosophy of Photography.

Anayra Santory, Ph.D. Professor. Indiana University, Bloomington, 1994, Professor. Political and Social Philosophy, Cultural History of Philosophy.

Rocío Zambrana, Ph.D. Assistant Professor. New School for Social Research, New York, 2010. German idealism (especially Hegel); Marx and Critical Theory (especially the Frankfurt School), Epistemology and Decolonial Thought.

COLLABORATORS:

Carlos Rojas Osorio, Ph.D. Universidad Javeriana, Bogotá, Colombia, 1981. *Professor Emeritus*. Epistemology, Ontology, Latin American Philosophy.

Dennis Alicea, Ph.D. Brown University, 1987. Pragmatism, John Dewey, Contemporary Philosophy.

Francisco José Ramos, Ph.D. Complutense University of Madrid, 1982. Philosophy and Buddhism, Aesthetics.

ADMISSION REQUIREMENTS:

General Venue Requirements:

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

In addition to the general admission requirements required by the Rio Piedras Campus, the student must meet the following:

1. Some courses – undergraduates in philosophy. It is recommended that the applicant have some knowledge of the following areas: logic, ancient philosophy, and modern philosophy.
2. In case of having passed theoretical courses in other areas of knowledge in an outstanding manner, the Department of Philosophy will provide the resources to remedy deficiencies in the basic knowledge of the History of Philosophy.
3. Provide evidence that you hold a bachelor's degree or its equivalent. It is up to the student to present certified proof of the degree; If you have an equivalent foreign degree, the Admissions Office must validate it.
4. A minimum academic index of 3.00 points, both general and specialty. In exceptional cases, students with a lower index may be admitted.
5. Proficiency in Spanish, the language in which the courses will be taught. Sufficient knowledge of English as a research tool. The Faculty of Humanities provides the necessary courses to improve the language skills of admitted students.
6. Two letters of recommendation.

GRADUATION REQUIREMENTS:

1. Complete 30 credits. These include three (3) credits in each of the following areas:
 - Logic or Philosophy of Language
 - Epistemology and metaphysics
 - Practical or Aesthetic Philosophy
2. Demonstrate that they have knowledge of a third language that will help them to continue their studies, advance their research project or expand their academic possibilities.

PROGRAM OF STUDY:

Program Requirements	Credits
<u>Core Courses</u>	
Logic or Philosophy of Language	3
Epistemology or Metaphysics	3
Practical Philosophy or Aesthetics	3
FILO 6060: Research and Writing in Philosophy	3
FILO 6795: Research Project in Philosophy	3
<u>Directed Selection Courses in Philosophy</u>	
600-Level Elective Courses in Philosophy	9
<u>Free Electives</u>	
Elective or FILO 6002: What is Philosophy?	3
Free Elective	3
Total Credits:	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

FILO 6900 Degree Exam

Zero credits

FILO 6895 Thesis

Prerequisite: Total credits required from the Graduate Program Grounded methodological research of a philosophical topic chosen by the student.

FILO 6896 Continuation of Thesis

No credit.

Prerequisite: Total credits required from the graduate program, FILO 6895 Methodologically grounded research of a philosophical topic chosen by the student.

OTHER COURSE DESCRIPTIONS:

FILO5006 Latin American Philosophy

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

Prerequisite: For graduate students, authorization from the Director.

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.

FILO 5035 Philosophy and Aesthetics of Music

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Director's Permission for Graduate Students Exploration of the relationships between the musical arts and individual (such as cognitive processes) or collective (such as other artistic genres) phenomena. 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. This course will be offered face-to-face, hybrid, and online.

FILO 5036 Philosophy of Photography

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Director's Permission for Graduate Students Course aimed at the study of themes, concepts, and texts about philosophy in its various epistemological, aesthetic, ethical, and political aspects. 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. Face-to-face, hybrid and online course.

FILO 6001 Foucault's Philosophy

One to three credits. One to three hours of lecture per week.

Variable topic course. The course develops the main concepts of Michel Foucault's philosophy and its relations with the social sciences (psychology, history, sociology, political science). It takes into account the evolution of the author's thought: archaeology, genealogy, and ethics.

FILO 6005 Nietzsche's Philosophy

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Intensive study of one or more works by the philosopher. Formulation of fundamental problems of his thought (metaphysical and moral critique, will to power, etc.) and of his methodological procedure (genealogy, perspectivism). Face-to-face, hybrid and online course.

FILO 6010/DERE7010 Theories of Justice

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

Elective course in which students will address and discuss contemporary theories of justice. The course will concentrate on the study and overview discussion of contemporary theories of justice. The specific dossier may include a combination of the contributions of leading exponents of theories of justice such as: John Rawls, Robert Nozick, Ronald Dworkin, Gerald Cohen, Catherine McKinnon, Iris Marion Young, Michael Sandel, and Amartya Sen.

FILO 6015 Philosophy of History

Three credits. Three hours of lecture a week.

Prerequisite: FILO 3001, 3071-3072 Study of the evolution of the concept of history in the history of philosophy and in the theoretical debates of historians.

FILO 6016 Defined descriptions

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

Definite descriptions have been the subject of intense philosophical debate since the publication in 1905 of Bertrand Russell's "On Denoting." In this course we will examine the main contributions to this debate, paying particular attention to recent semantic and pragmatic proposals. Some of the topics to be discussed are: Russell's theory of descriptions, Strawson's critique, the referential/attribute distinction, the thesis of ambiguity, the Gricean defenses of Russell's theory of Kripke and Kneale, the presentation of descriptions defined in formal semantics, different non-Gricean pragmatist proposals, anaphora.

FILO 6017 Platonic Philosophy

One to three credits. Two hours of lecture and one hour of discussion per week.

Course aimed at the detailed study of the themes, concepts and texts of the philosophy of Plato and Platonism. The course may be thematic or focus on the study of one or more specific dialogues. It may be repeated up to a maximum of three credits if the topics of study are different each time the student enrolls. This course will be offered in face-to-face, hybrid and online modalities.

FILO 6025 Philosophy of Science

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Study of the criteria of rationality in the sciences, of the processes of invention, creation and succession of scientific theories and concepts and of other philosophical matters relating to the various sciences.

FILO 6026 Ancient Politics and Ethics

One to three credits. Two hours of lecture and one hour of discussion per week.

A course aimed at the study of themes, texts and concepts of ancient philosophy on political and ethical issues, without excluding their relationship with metaphysical or epistemological themes, may be repeated up to a maximum of three credits with different topics of study each time the student enrolls.

FILO 6035 Ethics

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program in Philosophy Consideration of Classical and Contemporary Ethical Theories

fundamental problems, such as the role of reason in determining and justifying moral conduct.

FILO 6045 Leibniz's Philosophy

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program in Philosophy Leibniz's philosophy of maturity will be studied, highlighting the relationships between logic and ontology, philosophy of nature, and philosophy of mind.

FILO 6046 The Philosophy of Jean Jacques Rousseau

Three credits. Two hours of seminar and one hour of discussion per week This seminar aims to critically address Rousseau's philosophical thought, both from his best-known works, speeches, *The Social Contract*, *Emilio*, and from other less studied autobiographical literary sources.

PHILUS 6047 The Philosophy of Kant Three credits.

Three hours of lecture a week.

Prerequisite: Admission to the Graduate Program Study of some of the works of Immanuel Kant, his critics and exegetes.

FILO 6065 Pragmatism and Neo-pragmatism

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

This course reviews the classic period of pragmatism, the foundational writings of this school of thought, and its principal authors: Charles Pierce, William James, and John Dewey. In addition, the course discusses the main concepts as well as the representatives of neo-pragmatism of the second part of the 20th century and the beginning of the 21st century. The course details neo-pragmatism's critical appropriation of the doctrines of pragmatism that preceded it.

FILO 6155 Philosophical Studies on Metaphor

Three credits. Three hours of seminar per week.

A detailed and critical study of the living metaphor by Paul Ricoeur, one of the most important and systematic philosophical treatments of metaphor in recent times. The course links continental and analytic traditions of philosophical interpretation of metaphor, according to Ricoeur. The different levels at which metaphor works, according to Ricoeur, will be examined: the word, the phrase and the discourse, that is, the segments of a single itinerary whose stations are classical rhetoric, crossing semiotics and semantics and ending in hermeneutics. Particular consideration is given to the problem of whether metaphor has a referential function and its relation to reality.

FILO 6205 Pre-Socratic Philosophy

Three credits. Three hours of lecture a week.

Course aimed at the study of some of the main philosophers and philosophical currents called pre-Socratic: among others Xenophanes of Colophon, Heraclitus, those of Elea (Parmenides, Zeno, Melissus of Samos), those of Miletus (Thales, Anaximander), Pythagoras, Anaxagoras, Empedocles, the atomists (Leucippus, Democritus) and the sophists. Through the study of source texts, topics and problems of various kinds will be examined, for example, metaphysical, physical, knowledge-related political and ethical problems. These may be approached from the perspective of their contribution to the understanding of ancient Western philosophical thought in general or to that of other periods in the history of Western philosophy. The course may also focus on the study of a unique topic or problem.

FILO 6206 Classical Works of Ancient Philosophy

Three credits. Three hours of lecture a week.

A course aimed at one or more works of ancient Western philosophy, from the fragments of the Pre-Socratics to Saint Augustine. Topics and problems of various kinds will be examined, e.g. metaphysical, knowledge-related, political or ethical. Particular attention will be paid to the study of the general structure and main themes of the selected works, as well as to the detailed analysis of each text. These may be approached from the perspective of their contribution to the general thought of their author, the light of their contribution to the understanding of ancient Western philosophical thought or to the understanding of its periods and other works in the history of Western philosophy.

SECTION 6301 Buddhism and Philosophy I

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

The course provides a general, yet rigorous, idea of the essential features of the historical Buddha's teachings and the fundamental concepts of his legacy. This first part of the course concentrates on ancient Buddhism, the tradition of which reaches our day with Theravada.

SECTION 6302 Buddhism and Philosophy II

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

The course provides an overview of the essential features of the Buddha's teachings and the fundamental concepts of his legacy. This second part of the course focuses on the Mahayana tradition, to which both Zen and Tibetan Buddhism belong.

FILO6305 Theology of History

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

Reading/discussion of several books/chapters of *St. Augustine's City of God* to reconstruct the Christian theology of history contained in this work.

FILO 6395 Philosophy and Deconstruction

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts in Philosophy Study of the writing and reading strategies developed by J. Derrida, through the analysis of his texts, which expose the theory and practice of the deconstructive "method" and the application of this method in the interpretation of other classic philosophy texts.

SECTION 6405 Philosophy of Religion

Three credits. Three hours of lecture a week.

Prerequisite: B.A. with a specialization in Philosophy Based on the classification of religions into prophetic, sacramental, and mystical, by the eminent philosopher of religion William P. Alston, a comparative study of some paradigmatic philosophical theories about the nature of religious phenomena will be carried out. Critical discussion of studies by authors such as Kant, Schleiermacher, Feuerbach, Otto, Bergson, and James.

SECTION 6406 The Problem of God

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts in Philosophy Study, from a historical perspective, of some traditional arguments to prove the existence of God and establish the primordial attributes of his nature. Analysis of some of the most important criticisms that have been levelled at these "tests". An examination of how this problem is re-posed in the debate on religious language in analytic philosophy.

FILO 6407 Philosophy of Time

Three credits. Three hours of lecture a week.

Prerequisite: B.A. with a specialization in philosophy Study of a special approach to the philosophical problem of time, called kairology (theory of opportune time), through classic texts that raise this theme (diachronic aspect) and discussion of systematic problems of kairology (synchronic aspect; interdisciplinary approach).

FILO 6409 Hume's Philosophy of Religion

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Philosophy Critical analysis of Hume's theories on the origin, nature, and historical effect of religion that he formulates in *the Natural History of Religion* and his critique of rational theology that is outlined mainly in the *Investigation of Human Understanding* and the *Dialogues on Natural Religion*.

FILO 6415 Themes and Problems of Modern Philosophy

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Philosophy The study of one or more problems central to modern philosophy, e.g., the notion of ideas, the conception of nature, the mind/body relationship, among others.

FILO6417 Explanation and Understanding in History

Three credits. Three hours of lecture a week.

Prerequisite: B.A. majoring in philosophy Examination of the discussion that has occurred throughout the twentieth century around the nature of historical knowledge. Emphasis will be placed on the contributions to this topic by philosophical currents such as: neo-Kantianism, positivism, analytic philosophy, hermeneutics and others.

FILO 6419 French Existentialism

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts in Philosophy After a brief study of the main representatives of French existentialism and their relationship to the philosophy of Hegel, Kierkegaard, phenomenology, and Heidegger, the course will focus on an in-depth study of Sartre 's *Being and Nothingness*.

FILO 6425 Epistemology

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts in Philosophy Study of some of the following topics: the classical definition of knowledge, the problem of skepticism, induction, the category of evidence, theories about perception, among others. Face-to-face, hybrid and online course.

FILO 6427: Contemporary Philosophy of Action

Three credits. Three hours of lecture a week.

Prerequisite: B.A. majoring in Philosophy Examination of four contemporary theories of human action and practice: pragmatics, Marxist, existentialism, and British analytic philosophy. The general exposition of the problem, as expounded by Richard Bernstein in his work *Praxis and Action*, will be used. Students will be asked to read and analyze four essays representative of the theories examined.

FILO 6428 Spinoza's Ethics

Three credits. Three hours of lecture a week.

Systematic study of Baruch Spinoza's (1632-1677) major work, *Ethics Demonstrated According to Geometrical Order*. The journey begins with the exposition of the idea of God, which provides the explanatory framework for the examination of the origin and nature of the mind and the analysis of the affections, through which it is possible to enter the conflictive space that rocks the human being between servitude and freedom. In the process, fundamental characteristics of Spinozian thought will come to light, such as its neediness, its understanding of the mind-body relationship, the various ways in which we produce knowledge, the centrality of desire in human nature, the presence of the imagination in the dynamics of passion, or the practical importance of leading our lives guided by reason.

FILO 6435 German Ideology: Reading and Interpreting Problems

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Philosophy Elaboration and foundation of an interpretative approach to approach the reading of this work that allows the adequate reconstruction and critical evaluation of the materialist conception of history and human society developed by Marx and Engels.

FILO 6437 The Young Marx

Three credits. Three hours of lecture a week.

Prerequisite: B.A. in Arts with a specialization in Philosophy Studies of Marx's youthful texts with a view to establishing and critically analyzing the process of formation and the philosophical presuppositions of his thought, with particular attention to the problem of the appropriation of the Hegelian philosophical legacy.

FILO 6439 Philosophical Aspects of Capital

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Philosophy Analysis of the theoretical presuppositions of Marx's critique of economics and of the philosophical problems it raises, with a view to enabling the examination and evaluation of the various interpretations that have arisen in the discussion of this work in the twentieth century.

FILO 6445 Hegel's Practical Philosophy

Three credits. Three hours of lecture a week.

Prerequisite: B.A. in Arts with a specialization in Philosophy Explanation of Hegel's socio-political and moral thought based on his philosophy of right (English version annotated by Knox). The main purpose is to acquaint the student with the practical aspect of the Hegelian system.

PHILUS 6447 Hegel's *Phenomenology of Spirit*

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's Degree in Philosophy Systematic reading of the *Phenomenology of Spirit*, especially chapters I-IV and VIII in order to attend to the different figures of consciousness in general and its immanent evolution. The relationship that this text problematizes between logic and phenomenology will also be examined.

FILO 6449 Dialectics in *Capital*

Three credits. Three hours of lecture a week.

Prerequisite: B.A. in Philosophy This seminar will examine Marx's application of the Hegelian dialectic to political economy. We will deal with the specific difference between the two dialectics and the meaning of Marx's thesis of dialectics as a condition of the critique of political economy.

PHYLUM 6455 Reading Aristotle

Three credits. Three hours of lecture a week.

Prerequisite: B.A. with a specialization in Philosophy The study of Aristotle's thought as manifested in the documents that remain to us. Reading and analysis of some of his most significant philosophical works, for example: the central books of the *Metaphysics* or the first four books of the *Physics*, the second and third books of *De Anima*, the *Second Analytical*, or the *Nicomachean Ethics*. Face-to-face, hybrid and online course.

PHILUS 6457 Aristotle's Ethics and Politics

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts in Philosophy Reading and commentaries on Aristotle's *Nicomachean Ethics* and *Politics*. Special emphasis will be given to the fundamental concepts of ethics, such as the critique of the good itself, the theory of virtue, the doctrine of the just mean, justice, pleasure, friendship and others to explain the necessity of political life. The course will be offered in face-to-face, hybrid and online modes.

FILO 6465 Herder & Vico

Three credits. Three hours of lecture a week.

Prerequisite: B.A. with a specialization in Philosophy Introduction to the main problems facing historical knowledge in the eighteenth century, especially in the face of ideology and the Enlightenment. He will then consider the innovative contributions of J.G. Herder's philosophy (especially in *Auch eine Philosophie der Geschichte* and some books of the *Ideen*). G.B. Vico's work, *The New Science*, will serve as the main text.

FILO 6467 Hume's Metaphysics and Theory of Knowledge

Three credits. Three hours of lecture a week.

Prerequisite: B.A. with a specialization in Philosophy Analysis of the ontological and epistemological foundations of Hume's philosophy to approach from a unitary perspective central problems presented in the *Treatise*, Book I and in *Investigation of Human Understanding*, such as: causality, the independent existence of sensible objects, personal identity and nature, and the role of human skepticism.

FILO 6475 Gottlob Frege's Philosophy

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts in Philosophy The philosophy of Gottlob Frege is based on a detailed study of the foundations of arithmetic, followed by a discussion of representative writings from all his work.

FILO 6477 Husserl's Logical Investigations

Three credits. Three hours of lecture a week.

Prerequisite: B.A. with a specialization in philosophy Exposition and interpretation of the main problems dealt with by Husserl in the second volume of *The Logical Investigations*, indicating their relevance to various areas of current philosophical discussion.

FILO 6485 Quine's Philosophy

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts in Philosophy Introduction to Philosophy by Willard van Quine. Discussion of his contributions to the philosophy of logic, language, and other areas of philosophy.

FILO 6487 Husserlian Theory of Intentionality

Three credits. Three hours of lecture a week.

Prerequisite: B.A. in Philosophy Study of Specialized Problems of Transcendental Phenomenology. Detailed presentation of the intentional structures corresponding to objectives of various descriptions, particularly the objects of sensory perception, imagination, and memory.

SECTION 6495 Wittgenstein's Thought

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Philosophy Study of the main problems presented in Wittgenstein's philosophical works, seen as a second version of his work. The critical and polemical relationship of the book with the philosopher's earlier work is examined.

FILO6497 Ludwig Wittgenstein' s *Tractatus logico-philosophicus*

Three credits. Three hours of lecture a week.

Prerequisite: B.A. majoring in Philosophy Study of Wittgenstein' s *Tractatus logico-philosophicus*. Examination of some of its many interpretations. Investigation of the influences he suffered and the influence that this work has exerted on contemporary philosophy.

FILO 6507 Heidegger's Philosophy

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts in Philosophy Systematic reading of one or more works by Martin Heidegger, as well as his critics and exegetes.

SECTION 6515 The Semantic Problem of Truth

Three credits. Three hours of lecture a week.

Prerequisite: B.A. with a major in Philosophy The study of the problem of truth as seen through the contributions of contemporary philosophy.

FILO 6605 Directed Research in Philosophy I

One to three credits. Number of credits and meeting hours will be determined by the Faculty. Depending on the number of credits, it will be the number of contact hours.

A course of directed research on special topics or specific problems of individual interest. Prior to enrollment, the professor and student(s) will agree in writing on the topic to be researched and the texts, journals and materials to be used during the semester, as well as the nature of the research and monograph that will result as the final product. A copy of this agreement will be deposited with the Department of Philosophy. The FILO6605 course is usually taken in conjunction with any or all of the following courses: FILO6615, FILO6616, and FILO6606. However, only a maximum of 9 credits may be awarded for the degree by adding the credits of these four years.

FILO 6606 Directed Research in Philosophy II

One to three credits. Number of credits and meeting hours will be determined by the Faculty. Depending on the number of credits, it will be the number of contact hours Directed research course on special topics or specific problems of individual interest. Prior to enrollment, the professor and student(s) will agree in writing on the topic to be researched and the texts, journals and materials to be used during the semester, as well as the nature of the research and monograph that will result as the final product. A copy of this agreement will be deposited with the Department of Philosophy. The FILO6606 course is usually taken in conjunction with any or all of the following courses: FILO6615, FILO6616, and FILO6605. However, only a maximum of 9 credits may be awarded for the degree by adding the credits of these four years. Face-to-face, hybrid and online course.

FILO 6615 Supervised Reading in Philosophy I

One to three credits. Number of credits and meeting hours will be determined by the Faculty. Depending on the number of credits, it will be the number of hours contact Supervised Reading Course on special topics or specific problems of individual interest. Prior to enrollment, the professor and student will agree in writing on the topic to be researched and the texts, journals and materials to be read during the semester. Teacher and student may agree on requirements such as critical book reviews, written or oral reports, bibliographic essays or thematic essays or exams on readings to be taken. A copy of this agreement will be deposited with the Department of Philosophy. Course 6615 is usually taken in conjunction with any or all of the following courses: FILO 6605, FILO6606, and FILO 6616. However, only a maximum of 9 credits may be awarded for the degree by adding the credits of these four years.

FILO 6616 Supervised Reading in Philosophy II

One to three credits. Number of credits and meeting hours will be determined by the Faculty. Depending on the number of credits, it will be the number of contact hours Directed research course on specific topics or specific problems of individual interest. Prior to enrollment, professors and students will agree in writing on the topic to be researched and the texts, journals and materials to be used during the semester, as well as the nature of the research and monograph that will result as a final product. A copy of this agreement will be deposited with the philosophy department. The FILO6616 course is usually taken in conjunction with any or all of the following courses: FILO6605, FILO6606, and FILO6615. However, only a maximum of 9 credits may be awarded for the degree by adding the credits of these four years. Face-to-face, hybrid and online course.

FILO 6708 Philosophy of Mathematics

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student of the schools. Platonism, logicism, formalism, intuitionism will be studied. Contributions from Leibniz, Kant, etc. Those of Grege, Husserl, Poincare, etc. At the advanced level, you will see the ideas of Godel, Weyl, Brouwer, Curry, Boubaki, Kreisel and/or Heytig, etc., about mathematics.

FILO 6717 Logical Empiricism

Three credits. Three hours of lecture a week.

Prerequisites: FILO 4031, 4032, 3072, 4261 and 4262 The contributions to contemporary philosophy of the most important philosophical current of the first half of the twentieth century, logical empiricism (or positivism). Study of some of the most representative works of this current, and written by some of its greatest exponents, such as Schlick, Carnap and Reichenbach.

FILO 6720 Model Theory

Three credits. Three hours of lecture.

Prerequisite: FILO 4031 – 4032 Study of the semantics of first-order languages. In particular, notions such as (I) elemental equivalence and elemental extension, (II) completeness, model-completeness and consistency model, (III) ultra-product and ultrapower, (IV) elemental class and elemental class will be studied. Demonstration of the main results concerning these notions.

FILO 6721 Philosophy of Language I

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Study of the following subjects: the linguistic sign. Functions and dimensions of language. Theories of meaning (referential, mentalist, behaviorist, meaning as use). Language and metaphysics; Language and ethics; Ideology and language.

FILO 6725 Philosophical Cosmology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Study of philosophical conceptions of the world according to different cultures, expressed in both ancient and contemporary thought.

PHYLUM 6731 Metaphysics I

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Introduction to Metaphysics. Origins and Development of Metaphysical Thought. Their fundamental problems. The Place of Metaphysics in the Development of Philosophy. The relationship between metaphysical systems and the historical epochs in which they arose. Metaphysics as the root of knowledge. Relationship between theoretical knowledge of metaphysics and practical life.

FILO 6737/LING6737 Philosophy and Linguistics

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

In this course we will examine the philosophical underpinnings of major contemporary linguistic theories and some of philosophy's most important contributions to linguistics. Some of the topics to be discussed are: the innate nature of language, language and human evolution, language and cognition, the vericonditional conception of meaning, reference, quantification in natural languages, the pragmatic theories of Grice, Sperber and Wilson, metaphor.

FILO 6745 Philosophy of Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student in philosophical theories and theoretical approaches to literature according to classical, modern or contemporary thinkers with special emphasis on the trans-disciplinarity of the subject.

FILO 6747 Philosophical Psychology

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Critical analysis of the main concepts usually used in the description of the so-called mental or inner life of people and their manifestations in behavior. Questions such as: consciousness and the unconscious, perceiving (seeing and knowing), memory, imagination, emotions and evaluations, intentions and motives, will, other consciousnesses, etc., will be discussed.

FILO 6755 Symbolic Logic

Three credits.

This is a course in symbolic logic. We will study the following topics, among others: propositional logic, first-order logic, first-order logic with identity, first-order logic with definite descriptions, schematization, veritative tables, veritative trees, natural deduction, axiomatization, models, etc. Certain important metalogical results will also be studied, such as: consistency, decidability and completeness of propositional logic, undecidability of first-order logic, completeness of monadic first-order logic, incompleteness of polyadic first-order logic, etc.

FILO 6775 Problems and Controversies in the Philosophy of Science I: The Controversy over Scientific Realism

Three credits. Three hours of lecture a week.

Discussion of the conceptions of the degree and mode of reality of the theoretical objects of modern physics. Particular study of the realist interpretation of Boyd, Churchland, Hooker and Hacking and the anti-realist in their historical trajectory, up to Van Fraassen and Dummett.

FILO 6777 Problems and Controversies in the Philosophy of Science III: The Function of Mathematics in Natural Science

Three credits. Three hours of lecture a week.

Study of the background in Eudoxus; the mathematical structures for natural philosophy in Galileo and Newton; current literature, especially the controversy sparked by Hartry Field's "Physics without Numbers". On the other hand, the theories of the Sneed school are studied, which conceives the core of every physical theory as a mathematical structure and tries to rationally reconstruct all physical theories.

FILO 6778 Problems and Controversies in the Philosophy of Science IV: Modern Science and Man's Self-Understanding

Three credits. Three hours of lecture a week.

In the light of physical cosmology and biological theories, the controversy raised by the thesis of the very low a priori probability of the species "homo sapiens", the public policy questions about the use of genetics for various social purposes, and the ethical implications and feasibility of understanding the human brain by analogy with computers are discussed.

FILO 6923 Great Contemporary Philosophical Works III

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student.

Representative works of contemporary philosophy will be systematically studied, such as: Principles of Mathematics, Russell-Whitehead, Logical-Philosophical Treatise, Wittgenstein; Scientific research, Popper; Logical Investigations, Husserl; Being and Time, Heidegger; Being and Nothingness, Sartre; History and Class Consciousness, Lukács; The Search for Certainty, Dewey; Structural Anthropology, Levi-Strauss; etc.

FILO 6925 Husserl's Transcendental Phenomenology

Three credits. Three hours of lecture a week.

Prerequisite: B.A. with a major in Philosophy: Introduction to Husserl's Transcendental Phenomenology. Discussion of some major themes and critical examination of some of its various interpretations.

FILO6931 Classical Problems of Philosophy I

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Classical problems such as: the metaphysical question will be examined; the relationship between being and thinking; the problem of knowledge; the problem of substance; problems of ontology; the fundamentals of science; the problem of universals; philosophy and science; faith and knowledge of God, soul and the world; the problem of truth; etc.

FILO 6941 Current Problems of Philosophy I

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Problems such as: method and explanation in science will be examined; the problem of truth; revolutions in science; empirical-scientific knowledge: probability and induction; analytic philosophy of language; symbolic logic; psychologism and logic; logic and mathematics; free will and cybernetics; etc. Face-to-face, hybrid and online course.

FILO 6991 Problems of Current Philosophy

One to three credits. One to three hours of lecture per week.

This course provides the opportunity for a historical or thematic approach to some problems of twentieth- and twenty-first-century philosophy through the study of recent and new thinkers. Face-to-face, hybrid and online course.

FILO 6993 Aesthetics

One to three credits. One to three hours of lecture per week.

Course aimed at the study of some of the main philosophical and aesthetic theories about art. It will examine themes, texts and/or concepts that contribute to the understanding of some of the problems that have historically been raised by reflection on art and to the dialogue that is established with other dimensions of thought. The course may be thematic or focus on a particular author. and It may be repeated up to a maximum of six credits if its contents change.

FILO 6994 Critical Theory and the Frankfurt School

One to three credits. One to three hours of lecture per week.

This course will study the history of the Frankfurt School, the development of its most important contribution— critical theory— and its various intellectual and cultural influences. It may also focus exclusively on the thinking of one of its speakers or heirs or on a key topic for them. Among its most important members are Theodor W. Adorno, Max Horkheimer, Herbert Marcuse, Walter Benjamin, and Jürgen Habermas. The course may be repeated up to a maximum of six credits if its contents change.

FILO 6995 Problems in Contemporary Political Philosophy One to three credits. Two hours of lecture and one hour of discussion per week. Study of some of the diverse European, American and Latin American currents in contemporary political thought and their theoretical transition from the foundational themes of modernity, the normative justification of values (justice, equality or democracy) or institutions (the state and law), to reflections that concentrate their interest on the social and cultural mechanisms that sustain political organization and social transformation.

FILO 6996 Hellenistic Philosophy

One to three credits. Two hours of lecture and one hour of discussion per week.

Course aimed at the study of texts, themes and concepts of Hellenistic philosophy, with particular emphasis on metaphysics, theory of knowledge, ethics and politics. Attention will be given to the following schools: Epicureans, Stoics, Cynics, and Skeptics. It may be repeated up to a maximum of six (6) credits if the topics of study vary.

FILO 6997 Changes and Ruptures in the History of Philosophy

One to three credits. Two hours of lecture and one hour of discussion per week.

This course explores various explanations of how conceptual changes occur and appropriations in the history of philosophy. Both historical approximations and theoretical considerations are admitted to explain the change in the history of philosophy. This course is variable in topic so it can be taken on more than one occasion focused a different topics. Maximum 6 credits.

FILO 6998 Contemporary Philosophical Works

One to three credits. One to three hours of lecture per week.

Representative works of contemporary philosophy are systematically studied, such as Saul Kripke's *Naming and Necessity*; Alain Badiou's *Being and the Event*; *Empire* of Antonio Negri.

FILO 6999 Hermeneutics

Three credits. Three hours of discussion a week.

Prerequisite: Be a graduate student Introduction to the science of interpretation. The development of hermeneutical thought (its main problems and solutions) from antiquity to the present will be reviewed. Topics such as: the role of hermeneutics and its rules in religious, literary, historical, philosophical exegesis, etc., will be discussed; hermeneutics as a philosophical method in thinkers such as Schleiermacher, Dilthey, Heidegger, etc. **Mailing Address:**



Graduate Program Coordinator: Dr. Sandra Pujals **Phone:**

(787)-764-0000 Ext. 89561; 89562; 89564, 89594 Fax: (787)

772-1461 (Attn: Graduate Program in History)

Email: pgh.rrp@upr.edu

Portal: https://humanidades.uprrp.edu/graduados/?page_id=439

DEGREE: Master of Arts with a Major in History

TEACHERS:

Maria del Carmen Baerga, PhD, State University of New York-Binghamton, 1997.

Professor.

Sociology with a specialization in History; Workers' history; gender and social movements.

Bruno Ferrer, PhD, University of Barcelona, Spain, 2003. Professor. Ancient history.

Marcial Ocasio, PhD, Michigan State University, 1988. Professor. History; United States;

Latin America; Mexico; Diplomatic history and historiography.

Sandra Pujals, PhD, Georgetown University 1999. Professor. Global/transnational history;

Russia and the Soviet Union; Modern and Contemporary Europe, European Cinema.

César Solá, PhD, University of Michigan, 1999. Professor. History; Africa; Imperialism;

Latin America.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

In addition to the general admission requirements required by the Río Piedras Campus, the student must meet the following:

1. Have a bachelor's degree in history or another discipline
2. Have passed the undergraduate seminars in Theory of History and Historical Research (HIST 4225-4226).
3. Have an academic average of no less than 3.00, in general and in History courses.

For students with bachelor's degrees in other disciplines, a minimum of 15 baccalaureate credits in History, including the courses Theory and Methodology of History (HIST 4225-4226) or equivalent.

GRADUATION REQUIREMENTS:

Comply with the general graduation requirements in force at the Río Piedras Campus. In addition, students will need to meet the program-specific requirements:

1. Have passed 6 credits in a third language and those prerequisites that have been indicated in your letter of admission to the program.

PROGRAM OF STUDY:

The master's degree with a specialty in History is offered in the areas of History of Puerto Rico and the Caribbean; Continental America (Latin America and the United States); Cultural History; History of Europe

Program Requirements	Credits
HIST 6051-6052 Historiography and Historical Criticism	6
Area of Emphasis Courses (History of Puerto Rico and the Caribbean; Continental America (Latin America and the United States); Cultural History; History of Europe)	12
Free Electives (in History or another subject)	6
HIST 6991 Master's Project I	3
HIST 6992 Master's Project II	3
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

HIST 6051 Historiography and Historical Criticism

Three credits. Three hours of lecture a week.

Study of the historical development of Western historiography. Critical analysis of the representative works of each period, movement and cultural nucleus. Face-to-face, hybrid and online course.

HIST 6052 Historiography and Historical Criticism

Three credits. Three hours of lecture a week.

Prerequisite: HIST 6051 Study of the Historical Development of Western Historiography.

Critical analysis of the representative works of each period, movement and cultural nucleus. Face-to-face, hybrid and online course.

HIST 6991 Master's Project I

Three credits.

Prerequisites: HIST 6051, HIST 6052.

This year students will develop a proposal and initiate the Research for the final master's project. Each student must choose his/her own research topic and will choose a professor with whom the course can work, depending on the topic and/or historical context of the research. Students will work directly with their mentor in identifying a theoretical and methodological framework for the research. They will also identify the main bibliography for the topic and historical context, and the historiographical categories, document type, and file they will use for the final master's project. This course will be offered under the modalities. Face-to-face, hybrid, online y at a distance.

HIST 6992 Master's Project II

Three credits. Three hours of thesis per week.

Prerequisites: HIST 6052, HIST 6052, HIST 6990, History Graduate Program approval.

In this course, students will develop a research project to be defended as a final master's project. Each student must choose his/her own research topic, and will choose a professor with whom he/she can work the course, depending on the topic and/or historical context of the research. In addition, they will identify two more professors from the graduate history program who will serve as final readers. Students will work directly with their mentor to develop a historiographic project with a solid theoretical and methodological framework, which is of high quality to be published in a peer-reviewed academic journal (it is not mandatory to publish the work for the student to meet the final requirement of their degree).

The student will finish the course when he/she defends his/her final project in front of his/her committee and the coordinator of the graduate history program. This course will be offered in face-to-face, hybrid, online and distance learning modalities.

OTHER COURSE DESCRIPTIONS:

HIST 6001 Latin America and International Politics

Three credits. Three lecture hours per week Prerequisite: HIST 3211-3212 or equivalents Examination of fundamental aspects of Latin America's political, military, and economic relations with European, non-Hispanic imperialist powers, and the United States, from the sixteenth century to the present.

HIST 6002 Latin America and International Politics

Three credits. Three lecture hours per week Prerequisite: HIST 3211-3212 or equivalents Examination of fundamental aspects of Latin America's political, military, and economic relations with European, non-Hispanic imperialist powers, and the United States, from the sixteenth century to the present.

HIST 6007 Colonial Spanish-American Historiography

Three credits. Four hours of lecture per week Prerequisite: HIST 3211-3212 or its equivalents Critical analysis of the historical works representative of Spanish-American historiography during the colonial and independent periods.

HIST 6008 Hispanic American Historiography XIX-XX Centuries

Three credits. Four hours of lecture per week Prerequisite: HIST 3211-3212 or its equivalents Critical analysis of the historical works representative of Hispanic American historiography during the nineteenth and twentieth centuries.

HIST 6011 History of Medieval Institutions in Western Europe

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3185 or its equivalent Comparative study of the Church, the monarchy and the nobility as axes of the development of medieval history in Spain, France and England.

HIST 6012 History of Medieval Institutions in Western Europe

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3185 or its equivalent Comparative study of the Church, the monarchy and the nobility as axes of the development of medieval history in Spain, France and England.

HIST 6016 History of the French Revolution

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3155 or its equivalent Examination of the forces leading to revolution, economic and constitutional reforms, attempts to organize responsible government and the rise of Napoleon, European reaction to the imperial idea, and the fall of Napoleon.

HIST 6017 History of the Mexican Revolution

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3211 – 3212 or its equivalents Study and analysis of the antecedents and ideological and institutional process of the Mexican revolution, from its origins towards the end of the nineteenth century to its institutionalization in the 1920s

HIST 6018 History of the Labor Movement in Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242 or equivalents Study of the development of the Puerto Rican labor movement within the context of Puerto Rico's social, economic, and political problems during the twentieth century.

HIST 6020 The Napoleonic Era

Three credits. Three hours of lecture a week.

Study of the Napoleonic era based on the Directory and the great influence that this military and political exerted on the history of humanity.

HIST 6021 Historical Analysis of European Diplomacy 1870-1914

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3195, 3185, 3165, 3205 or their equivalents Historical Analysis of Pre-War European Diplomatic Relations: 1870-1914. Those aspects leading up to the First World War will be accentuated.

HIST 6022 Historical Analysis of European Diplomacy 1919-1939

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3195, 3185, 3165, 3155, 3205, 3202, 6021 Historical analysis of European diplomatic relations during the period between the two world wars, 1919-1939. Those aspects leading up to the Second World War are accentuated.

HIST 6023 Historical Analysis of Diplomacy

Three credits. Three hours of lecture a week.

Prerequisite: HIST 6022 The Cold War at the diplomatic level: a study of the postwar world through the main documents and the personalities who forged it, from the incipient "Atlantic Charter" of 1941 to the Shanghai Communiqué of 1972. The new orientation of an internationally organized world will be emphasized.

HIST 6025 Thesis Seminar

Three credits. Three hours of lecture a week.

Prerequisite: 21 credits (graduated in History) Production of the proposal for the master's thesis. Face-to-face, hybrid and online course.

HIST 6026 Spanish-American Paleography

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the Director Familiarity with the study of the modes of writing of the centuries prior to ours from the sixteenth century onwards. Documents up to the nineteenth century are examined in relation to Latin America. Face-to-face, hybrid and online course.

HIST 6027 U.S.-Puerto Rico Relations: Twentieth Century

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242, 3111-3112 and permission from the Director of the Department of History Relations between the United States and Puerto Rico in this century emphasizing political evolution through the Foraker Act-Jones Organic Act and the development of the Commonwealth with the current constitution.

HIST 6028 Relations of Puerto Rico and the Caribbean XIX - XX Centuries

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242 and permission from the Director of the Department of History Analysis of the Economic, Social, and Political Relations of Puerto Rico and the Caribbean: Centuries XIX – XX.

HIST 6029 Spanish-American Diplomatic History XIX-XX Centuries

Three credits. Three hours of lecture and three hours of practice workshop Prerequisite: Permission from the Director of the Department of History Study of the structures of Spanish-American historical documents of the centuries XIX-XX.

HIST 6031 Colonial Institutions of Spanish America

Three credits. Three hours of lecture per week Prerequisite: HIST 3211-3212 or equivalents Implantation and development of the institutions established by Spain in its colonies: the economic policy and contributions of Spanish America to the Spanish colonial system.

HIST 6032 Colonial Institutions of Spanish America

Three credits. Three hours of lecture per week Prerequisite: HIST 3211-3212 or equivalents Implantation and development of the institutions established by Spain in its colonies: the economic policy and contributions of Spanish America to the Spanish colonial system.

HIST 6035 History of the Era of the American Revolution 1775-1800

Three credits. Three lecture hours per week Prerequisite: HIST 3211-3212 or equivalents
Covers the precedents of the American Revolution, remote and immediate causes, and the post-revolutionary effects of independence in America and internationally.

HIST 6036 Church and Society in Medieval France

Three credits. Three hours of lecture per week Prerequisite: Permission of the Director
Major Problems in the Social History of France in the Central Middle Ages and their Correspondences and Effects on the Medieval French Church.

HIST 6037 Geopolitics of the Antillean Archipelago and the Continental Marches 16th – 17th Centuries

Three credits. Three hours of lecture per week Prerequisite: Permission from the Director of the Department of History
Historical examination of the Spanish geopolitics of imperial defense in the area of the Caribbean and the Mexican Peninsula and the development of a regional logistical vision.

HIST 6038 Political Development of Puerto Rico Twentieth Century (1898 – 1952)

Three credits. Three hours of lecture per week Prerequisite: Director's Permit
Study of the political evolution of Puerto Rico from the change of sovereignty to the implementation of the commonwealth in 1953. Explanation and discussion of the system of government under the Foraker and Jones charters, political parties, their leaders, general elections, ideological issues, and general problems

HIST 6039 Economy and Society of Puerto Rico in the Nineteenth Century

Three credits. Three hours of lecture per week Prerequisite: Permission from the Director of the Department of History
Analysis of the main processes that determined the economic development of Puerto Rico in the nineteenth century.

HIST 6040 Economy and Society of Puerto Rico in the Twentieth Century

Three credits. Three hours of lecture per week.

Prerequisite: Permission from the Director of the Department of Economic Development and the Course of Puerto Rican Society in the Present Century.
Face-to-face, hybrid and online course.

HIST 6041 History of Inter-American Relations

Three credits.

Prerequisite: HIST 3111– 3112 or equivalents
Critical study of the Monroe Doctrine and analysis of U.S. foreign policy.

HIST 6042 History of Inter-American Relations

Three credits.

Prerequisite: HIST 3111– 3112 or equivalents Critical study of the Monroe Doctrine and analysis of U.S. foreign policy.

HIST 6045 History of the Latin American Labor Movement in the Twentieth Century

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3211-3212 or equivalents Study of the development of the Latin American labor movement within the context of the social, economic, and political problems of Latin America during the twentieth century.

HIST 6046 The Hispanic Caribbean: Economy and Society, 14th-20th Centuries

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242 and Director's Permit Historical Review of Sugar Plantation Growth in Cuba, Dominican Republic, and Puerto Rico.

HIST 6052 Historiography and Historical Criticism

Three credits. Three hours of lecture a week.

Prerequisite: HIST 6051 Study of the Historical Development of Western Historiography. Critical analysis of the representative works of each period, movement and cultural nucleus. Face-to-face, hybrid and online course.

HIST 6055 Slavery in the Americas

Three credits. Three hours of lecture a week.

Study of the comparative history of slavery in Brazil, the United States and the Caribbean.

HIST 6056 Problems of Spain in the Nineteenth Century - I

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student in the Seminar of Readings on Historical Problems of Spain during the Nineteenth Century.

HIST 6057 Problems of Spain in the Nineteenth Century - II

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student in the Seminar of Readings on Historical Problems of Spain during the Nineteenth Century.

HIST 6058 Problems of Spain in the Nineteenth Century - III

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student in the Seminar of Readings on Historical Problems of Spain during the Nineteenth Century.

HIST 6059 Problems of Spain in the Nineteenth Century - IV

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student in the Seminar of Readings on Historical Problems of Spain during the Nineteenth Century.

HIST 6061 History of Puerto Rico 1808-1898

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241, HIST 3242 or their equivalents Ramón Power's participation in the Spanish Cortes, the constitutional governments, Don Miguel de la Torre and the entire historical movement in the era of the special laws until 1898 stands out.

HIST 6062 History of Puerto Rico 1808-1898

Three credits. Three hours of lecture a week.

Ramón Power's participation in the Spanish Cortes, the constitutional governments, Don Miguel de la Torre and the entire historical movement in the era of the special laws up to 1898 stand out.

HIST 6065 Programming Techniques in History

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate The application of statistical analysis performed on computers to historical research. Development of skills in the management of the Special Program for The Social Sciences (SPSS). Projects by students in the management of quantitative data extracted from censuses, market balances, registries and registers of historical sources of the nineteenth and twentieth centuries in Puerto Rico.

HIST 6066 History of the Progressive Movement in the United States 1870– 1920

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

Prerequisite: HIST 3111-3112, equivalent, or teacher's permission.

Analysis of the social origins of the progressive movement in the United States and the impact of this movement on key socio-economic groups between 1870 and 1920.

HIST 6067 The United States and the Spanish-American War

Three credits. Three hours of lecture a week.

Analysis of the causes and consequences of the Spanish-American War and its impact on U.S. domestic and foreign policy.

HIST 6068 The United States and Its Dependencies in the Twentieth Century

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate-level research seminar student to examine the relationship of the United States with its dependencies.

HIST 6069 U.S. Foreign Policy in the Caribbean 1900-1920

Three credits. Three hours of lecture a week.

A course that studies the foreign policy of the United States towards the Caribbean in the first decades of the twentieth century.

HIST 6071 Independence Movement in Spanish America 1800-1830

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3211-3212 or its equivalents Critical study of the origins and development of emancipatory feats in Latin America.

HIST 6072 Independence Movement in Spanish America: 1800-1830

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3211-3212 or its equivalents Critical study of the origins and development of emancipatory feats in Latin America.

HIST 6075 Cuba in the Transition to Socialism

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Examination of the transformation of Cuba into a socialist state during the period from 1952 to 1968.

History 6076 Historical Sociology of Race and Ethnicity

Three credits. An hour and a half of discussion and an hour and a half of seminar Race and ethnicity are two important concepts in sociology, as in other fields of knowledge. Both concepts are also very significant in the daily life of human beings and their interactions in, and through, a comparative and historical approach and the construction of them in a critical way at a theoretical and conceptual level. It considers how the diverse understandings of race and ethnicity are located in relation to different knowledges, other concepts (class, nation) and social processes and dynamics (nationalism, racism, migration). The examination of this concept, ideas, and dynamics is done by considering case studies and research in various regions and societies from, for example, the Caribbean and the American South to Nazi Germany. The course is designed for a high level of discussion and debate, integrating theoretical knowledge with existing historical research, but at the same time interacting with the students' projects and research process. This course has the equivalent SOCI-6076 in the Department of Sociology.

HIST 6077 Historiographical Debates on the Cold War

Three credits. Three hours of seminar per week.

This course discusses and analyzes the diversity of the most relevant events about the Cold War (1945-1991), such as the aftermath of the Yalta Conference, the concept of national security in the international politics of the United States after 1945, the influence of nuclear weapons in the context of national security, the impact of the Cold War on consumption and political outlook, the emergence of regional conflicts during the post-World War II period, and the collapse of the Cold War and its aftermath.

HIST 6078 Historiographical Debates on U.S. International Relations in the Twentieth Century

Three credits. Three hours of seminar per week.

Discussion and analysis of some of the most relevant historiographical issues in the area of U.S. international relations during the 20th century. Among the topics to be studied are the various theoretical constructions around the historiography of international relations in the United States, World War II, the Cold War, the debate around multilateralism, the influence of cultural and gender studies on the historiography of international relations, and the effects of neoconservatism in the post-Cold War period.

HIST 6081 Research Seminar on Puerto Rican History

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242, HIST4225-4226 and permission from Professor
Research Seminar on Diverse Topics in Puerto Rican History.

HIST 6082 Research Seminar on Puerto Rican History

Three credits. Three hours of lecture a week.

Prerequisite: HIST 6081 Research Seminar on Diverse Topics in Puerto Rican History.

HIST 6085 Introduction to Topics in Historiography of the United States Twentieth Century

Three credits. Three hours of seminar per week.

This course discusses and analyzes some of the most important historiographical issues in the United States during the twentieth century, such as: the theoretical perspectives that have influenced the historiography of the United States after World War II, the most prominent debates surrounding contemporary social historiography, the influence of gender as a category of analysis on the historiography of the United States, the importance of labor history in industrial and post-industrial America and the various historiographical schools that study the presence of the United States in the international arena during the twentieth century.

HIST 6086 Seminar on Historiographical Debates on the New Deal

Three credits. Three hours of seminar per week.

Discussion and analysis of the historiographical diversity of the most relevant themes and debates on the New Deal (1932-1938). Among the topics to be studied are the various historiographical constructions about the New Deal, the emergence of the welfare state, the transformation of American politics from the New Deal reforms, the effects of the New Deal on urban policies, the collapse of the New Deal in the late 1930s and its consequences on the social fabric, political and economic development of the United States.

HIST 6105 Puerto Rican History Seminar (1505-1599) - Part I

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241, Director's Permit Monographic course of research and analysis of documentary sources, cartographic works, relations, memories, chronicles and histories of that and other centuries about the political, economic, demographic, urban, educational, religious and strategic development of Puerto Rico during the sixteenth century.

HIST 6106 Puerto Rico History Seminar (1551-1599) - Part II

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241 or permission of the Director Monographic course of research and analysis of documentary sources, cartographic works, relations, memories, chronicles and histories of that and other centuries about the political, economic, demographic, urban, educational, religious and strategic development of Puerto Rico during the sixteenth century.

HIST 6115 Oral History Theory and Methodology

Three credits. Three hours of lecture a week.

Detailed and analytical study of several of the most relevant writings on the theory and methodology of oral history. Oral history practices, using readings, discussions, and guest lecturers. The student will undertake an oral history project that includes in-depth research, interviewing, transcribing and editing, and writing a final essay. Face-to-face, hybrid and online course.

HIST 6145 Seminar on Contemporary Theoretical Readings and Problems

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Course of Readings on Contemporary Theoretical Problems. Among the possible topics to be discussed are: modernity and postmodernity, feminist theories, nation and nationalism, the ethnic question, racism, colonialism and postcolonialism, popular culture, the urban question, ecology, new paradigms in science and technology, state, market and democracy, post-industrialism, globalization, transition of social formations and others. Students will be able to take the course a maximum of three times (9 credits) without repeating the topics. Face-to-face, hybrid and online course.

HIST 6150 European History Reading Seminar

Three credits. Three hours of seminar per week.

Prerequisite: Admission to the Graduate Program in History or permission from the professor. Analysis of the historical processes that contributed to the development of Europe. The topic will change depending on the teacher's specialization. Students may take the course a maximum of three times (9 credits) without repeating the topics. Face-to-face, hybrid and online course.

HIST 6205 Research Seminar on Puerto Rican Social History (XIX Century) I

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242 or permission of Professor Research
Seminar on Topics of Puerto Rican Social History.

HIST 6206 Research Seminar on Puerto Rican Social History (XIX Century) II

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242 or permission from Professor Research
Seminar on Puerto Rican Social History Topics.

HIST 6207 Research Seminar on Puerto Rican Social History (XIX Century) III

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242 or permission of Professor Research
Seminar on Topics of Puerto Rican Social History.

HIST 6208 Research Seminar on Puerto Rican Social History (XIX Century) IV

Three credits. Three hours of lecture a week.

Prerequisite: HIST 3241-3242 or permission from Professor Research
Seminar on Topics of Puerto Rican Social History.

HIST 6215 Colonial History of the Caribbean (Fifteenth - Eighteenth Centuries) I

Three credits. Three hours of lecture a week.

Prerequisite: Graduate level student Discussion seminar on selected Caribbean topics and countries during the first three centuries of European colonization.

HIST 6216 Caribbean Colonial History (15th - 18th Centuries) II

Three credits. Three hours of lecture a week.

Prerequisite: Graduate level student Discussion seminar on selected Caribbean topics and countries during the first three centuries of European colonization.

HIST 6217 Caribbean Colonial History (15th - 18th Centuries) III

Three credits. Three hours of lecture a week.

Prerequisite: Graduate level student Discussion seminar on selected Caribbean topics and countries during the first three centuries of European colonization.

HIST 6218 Caribbean Colonial History (15th - 18th Centuries) IV

Three credits. Three hours of lecture a week.

Prerequisite: Graduate level student Discussion seminar on selected Caribbean topics and countries during the first three centuries of European colonization.

HIST 6525 History of the Spanish Language in Puerto Rico

Three credits. Three hours of seminar per week.

Study of the history of Spanish in Puerto Rico. Analysis of the linguistic influences and cultural roots of Puerto Rican speech from the Arawak Taino substratum to the cultured and semi-cultured linguistic uses of the twentieth century.

HIST 6900 Comprehensive Exam (Master's Program)

Zero credits



Mailing Address: 13 Ave. Universidad, Suite 1301 San Juan, PR 00925-2533

Graduate Program Coordinator: Dr. Sandra Pujals **Phone:**

(787)-764-0000 Ext. 89561; 89562; 89564, 89594 Fax: (787)

772-1461 (Attn: Graduate Program in History)

Email: pgh.rrp@upr.edu

Portal: http://humanidades.uprrp.edu/graduados/?page_id=569

DEGREE: PhD in Philosophy with a Specialization in History

TEACHERS:

Maria del Carmen Baerga, PhD, State University of New York-Binghamton, 1997. Professor. Sociology with a specialization in History; Workers' history; gender and social movements.

Bruno Ferrer, PhD, University of Barcelona, Spain, 2003. Professor. Ancient history.

Marcial Ocasio, PhD, Michigan State University, 1988. Professor. History; United States; Latin America; Mexico; Diplomatic history and historiography.

Sandra Pujals, PhD, Georgetown University, 1999. Professor. Global/transnational history; Russia and the Soviet Union; Modern and Contemporary Europe, European Cinema.

César Solá, PhD, University of Michigan, 1999. Professor. History; Africa; Imperialism; Latin America.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Requirements of the Doctoral Programme

In addition to the general admission requirements required by the Río Piedras Campus, the student must meet the following:

1. Have a master's degree in History or its equivalent.
2. Have an average of no less than 3.00, in general and in area of specialization.

3. For students with a master's degree in other disciplines, have passed a minimum of fifteen graduate credits in History, of which six must be in Historiography y Critical (HIST 6051-6052) or its equivalent.
4. Applicants must satisfy the requirement of 6 credits in a third language.

GRADUATION REQUIREMENTS:

Comply with the general graduation requirements in force at the Río Piedras Campus. In addition, students will need to meet the program-specific requirements:

1. Have passed 6 credits in a third language and those prerequisites that have been indicated in your letter of admission to the program.
2. Write, defend and approve the research proposal on your topic.
3. Write and pass a historiographical essay (historiography review) on your dissertation topic (degree exam).
4. Write, defend and approve their doctoral thesis on an original and unique topic based on primary sources of academic relevance.

PROGRAM OF STUDY:

The Ph.D. with a specialty in History is offered in the areas of Puerto Rican History and Caribbean and Cultural History (which may include focus on other geographic areas such as Continental America (Latin America and the United States) and Europe.

Program Requirements	Credits
Courses in one of the areas of emphasis	9
Free Electives in History or another discipline	9
HIST 8900 Doctoral Thesis Proposal	3
Degree Exam	0
HIST 8891 PhD Thesis	0
HIST 8892 Doctoral Thesis Continuation	0
Total Credits	21

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

History 8900 Doctoral Thesis Proposal

Three credits.

Prerequisite: 18 credits graduated in doctoral program in History Preparation of proposal for original research, based on primary sources.

HIST 8891 Thesis (Doctoral Program)

No credit.

Prerequisite: 18 credits graduated in doctoral program, plus HIST - 8900 Thesis Writing in Its Traditional Format

HIST 8892 Continuation of Thesis (Doctoral Program)

No credit.

Prerequisite: 30 credits graduated in the doctoral program and have passed HIST 8891 Continuation of thesis writing in its traditional form

OTHER COURSE DESCRIPTIONS:

HIST 8005 Research Seminar on Puerto Rican History I

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or six approved credits in Puerto Rican history at the graduate level Monographic course on research and analysis of primary sources on diverse topics in the history of Puerto Rico.

HIST 8006 Research Seminar on Puerto Rican History II

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or six approved credits in Puerto Rican History at the graduate level.

Monographic course on research and analysis of primary sources on various topics in the history of Puerto Rico.

HIST 8007 Research Seminar on Puerto Rican History III

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or six approved credits in Puerto Rican History at the graduate level.

Monographic course on research and analysis of primary sources on various topics in the history of Puerto Rico.

HIST 8008 Research Seminar on Puerto Rican History IV

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or six approved credits in Puerto Rican History at the graduate level.

Monographic course on research and analysis of primary sources on various topics in the history of Puerto Rico. Face-to-face, hybrid and online course.

History 8009 The (De)construction of Cultural Heritage

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

The course explores the institutional supports provided by international and national organizations in relation to the management of cultural, tangible, intangible and human heritage. In addition, it examines the connections between heritage management, its political and social uses, and its role in the articulation and reproduction of cultural identities. It also addresses the economic conceptualization of heritage within the framework of the tourism industry and aims to generate critical discussions around the conflicts associated with the different uses of heritage in contemporary cities.

HIST 8010 Industrial Revolution and Underdevelopment

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Discussion seminar on the European industrial revolution and attempts to replicate it in Latin America.

HIST 8015 Seminar of Readings on Latin America: Nineteenth and Twentieth Centuries- I

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or six approved credits on América Latina or permission from the professor.

Seminar of readings on problems of Latin America, of the nineteenth and twentieth centuries, such as militarism, the rise of nationalist, constitutionalist, populist, socialist, and other problems

HIST 8016 Seminar of Readings on Latin America: Nineteenth and Twentieth Centuries - II

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or six approved credits on América Latina or permission from the professor.

Seminar of readings on problems of Latin America, 19th and 20th centuries such as militarism, the rise of nationalist, constitutionalist, populist, socialist movements, and other problems

HIST 8017 Seminar of Readings on Latin America: Nineteenth and Twentieth Centuries - III.

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or six approved credits on América Latina or permission from the professor.

Seminar of readings on problems of Latin America, 19th and 20th centuries such as militarism, the rise of nationalist, constitutionalist, populist, socialist movements, and other problems

HIST 8018 Seminar of Readings on Latin America: Nineteenth and Twentieth Centuries - IV

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or six approved credits on América Lantina or permission from the professor.

Seminar of readings on problems of Latin America, 19th and 20th centuries such as militarism, the rise of nationalist, constitutionalist, populist, socialist, and other problems. Face-to-face, hybrid and online course.

HIST 8030 Contemporary Puerto Rican Historiography

Three credits. Three hours of seminar.

Prerequisite: HIST 4225, 6051, 6052 Critical examination of the various contemporary historiographical and methodological currents of Puerto Rico and identification of future areas of research with relevant sources and applied methodologies.

HIST 8035 Supervised Reading Seminar in History I

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or 18 graduate credits in history Supervised reading course on special topics or specific problems of individual interest. Prior to enrollment, the student and the professor will agree in writing on the topic to be studied and the course requirements.

HIST 8036 Supervised Reading Seminar in History II

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or 18 graduate credits in history Supervised reading course on special topics or specific problems of individual interest. Prior to enrollment, the student and the professor will agree in writing on the topic to be studied and the course requirements.

HIST 8037 Supervised Reading Seminar in History III

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program or 18 graduate credits in history Supervised reading course on special topics or specific problems of individual interest. Prior to enrollment, the student and the professor will agree in writing on the topic to be studied and the course requirements.

HIST 8039 African History Topics Seminar

Three credits. Three hours of seminar per week Seminar of readings around associated themes of African history. It focuses on topics that have generated controversy in the historiography of sub-Saharan Africa. These topics cover political, ethnic, cultural and socio-economic development issues. Specific cases concerning certain nations are addressed, as well as phenomena that go beyond borders and are observed across wide regions, in which a comparative approach is imposed. Students will be able to take the course a maximum of three times (9 credits) without repeating the topics.

HIST 8045 Seminar on Directed Research in History I

Three credits. Three hours of seminar.

Prerequisite: Admission to the doctoral program or 18 approved credits in history at the graduate level Monographic research course on specific topics or problems of individual interest. Prior to enrollment, the student will agree with the professor on the topic to be studied and the course requirements.

HIST 8046 Directed Research Seminar on History II

Three credits. Three hours of seminar per week.

Prerequisite: Admission to the doctoral program or 18 approved credits in history at the graduate level Monographic research course on specific topics or problems of individual interest. Prior to enrollment, the student will agree with the professor on the topic to be studied and the course requirements.

HIST 8047 Research Seminar Directed at History III

Three credits. Three hours of seminar.

Prerequisite: Admission to the doctoral program or 18 approved credits in history at the graduate level Monographic research course on specific topics or problems of individual interest. Prior to enrollment, the student will agree with the professor on the topic to be studied and the course requirements.

HIST 8048 Directed Research Seminar on History IV

Three credits. Three hours of seminar.

Prerequisite: Admission to the doctoral program or 18 approved credits in history at the graduate level Monographic research course on specific topics or problems of individual interest. Prior to enrollment, the student will agree with the professor on the topic to be studied and the course requirements.

HIST 8055 Seminar on Colonial Latin America I

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Research Seminar on the History of Latin America during the Sixteenth – Eighteenth Centuries. Face-to-face, hybrid and online course.

HIST 8056 Seminar on Colonial Latin America II

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Research Seminar on the History of Latin America during the Sixteenth – Eighteenth Centuries. Face-to-face, hybrid and online course.

HIST 8057 Latin America Seminar III

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Research Seminar on the History of Latin America during the Sixteenth Centuries – XVIII.

HIST 8058 Latin America Seminar IV

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Research Seminar on the History of Latin America during the Sixteenth Centuries – XVIII.

HIST 8065 Caribbean History Reading Seminar I

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the supervisor.

Reading seminar on the economic, social, cultural and political development of the Caribbean.

HIST 8066 Caribbean History Reading Seminar II

Three credits. Three hours of lecture a week.

Reading seminar on the economic, social, cultural and political development of the Caribbean.

HIST 8067 Caribbean History Reading Seminar III

Three credits. Three hours of lecture a week.

Reading seminar on the economic, social, cultural and political development of the Caribbean.

HIST 8068 Caribbean History Reading Seminar IV

Three credits. Three hours of lecture a week.

Reading seminar on the economic, social, cultural and political development of the Caribbean.

HIST 8075 Caribbean History Research Seminar I

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the professor Research Seminar on the Economic, Social, Cultural and Political Development of the Caribbean. The course will be offered in a four-semester cycle. The subject matter will vary in each of the semesters.

HIST 8076 Caribbean History Research Seminar II

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the professor.

Research Seminar on the Economic, Social, Cultural and Political Development of the Caribbean. The course will be offered in a four-semester cycle. The subject matter will vary in each of the semesters.

HIST 8077 Caribbean History Research Seminar III

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the professor.

Research Seminar on the Economic, Social, Cultural and Political Development of the Caribbean. The course will be offered in a four-semester cycle. The subject matter will vary in each of the semesters.

HIST 8078 Caribbean History Research Seminar IV

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the professor.

Research Seminar on the Economic, Social, Cultural and Political Development of the Caribbean. The course will be offered in a four-semester cycle. The subject matter will vary in each of the semesters.

HIST 8085 Brazil: Economy and Society I

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the professor.

Seminar of readings on specific topics in the economic and social history of Brazil.

HIST 8086 Brazil: Economy and Society II

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the professor.

Seminar of readings on specific topics in the economic and social history of Brazil.

HIST 8087 Brazil: Economy and Society III

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the professor.

Seminar of readings on specific topics in the economic and social history of Brazil.

HIST 8088 Brazil: Economy and Society IV

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the doctoral program, or nine graduate credits, or permission from the professor.

Seminar of readings on specific topics in the economic and social history of Brazil.

HIST 8091 Seminar of Readings on Problems of the United States Nineteenth and Twentieth Centuries, I

Three credits. Three hours of seminar per week.

Prerequisite: Admission to the Graduate Program in History or permission from the professor. Lecture course on problems in the United States in the 19th and 20th centuries. The course theme will change from semester to semester. The student will engage in intensive reading around the specific topic of this semester. The teacher will choose the

material to be covered according to their specialty. Possible topics of discussion include: industrialism, the labor movement, women and gender, ethnicity and immigration, state and society, political history, the civil rights movement, urban history, consumer culture, and others. Students will be able to take the course a maximum of three times (9 credits) without repeating the topics. Face-to-face, hybrid and online course.

HIST 8095 History of U.S.-Cuba Relations

Three credits. Three hours of seminar per week.

Prerequisite: Be a graduate student Study of the historical process in which Cuba and the United States have developed their economic and political relations.

HIST 8105 Topics in Arab and Islamic History

Three credits. Three hours of seminar per week.

Seminar of readings and discussion on Arab and Islamic themes. Under this definition, the current Arab countries and all the territories that are part, or have been at some point in history, of what we know as Islamic civilization are considered. Each time it is offered it will deal with different topics, such as, but not limited to: modernity and Islam in the contemporary world, fundamentalism, al-Andalusian and religious, political and economic history. Students will be able to take the course a maximum of three times, without repeating the topics, which will change periodically.

HIST 8125 Women's History Seminar I

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Research Seminar on Women's History.

HIST 8126 Women's History Seminar II

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Research Seminar on Women's History.



Mailing Address: 13 Ave Universidad, Suite 1301 San Juan, PR 00925-2533

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Dr. Patrick-André Mather Phone: (787) 764 – 0000 ext.

89611, 89612, 89653

Portal: <http://humanidades.uprrp.edu/ingles/>

Email: pgi.rrp@upr.edu

Portal: http://humanidades.uprrp.edu/graduados/?page_id=442

DEGREE: Master of Arts with a major in English

TEACHERS:

Alma Simounet, Ed.D, Inter-American University of Puerto Rico, 1987. Professor. Bilingualism; ethnolinguistics.

Ann Albuyeh, PhD, University of Wisconsin, 1985. Professor. Historical linguistics; psycholinguistics; ethnolinguistics.

Carmen Haydée Rivera Vega, PhD, Northeastern University, 2001. Professor. Latino/a Literature; ethnic literatures of the United States; Diaspora and Women's Studies.

Daniel Nevárez Araújo. PhD, University of Massachusetts, Amherst, 2021. Assistant Professor. Film Studies, disability studies, medical humanities.

Dannabang Kuwabong, PhD, McMaster University, 1997. Professor. Creative Writing; oral traditions; women's poetry; African Diaspora Studies.

Don Walicek, PhD, University of Puerto Rico, Río Piedras (2009), Professor. sociolinguistics, sociohistorical linguistics, creole languages, linguistic ideologies, language change, discourse analysis, cultural studies.

James P. Conlan, PhD, University of California, Riverdale, 1999. Professor. Medieval and Renaissance literature; textual criticism, travel narrative from the early New World.

Janet MacLennan, PhD, Ohio University, (2000). Professor. Areas of expertise: International Communication, Relational Communication, Intercultural Communication

Loretta Collins Klobah, PhD, University of Iowa, 1999. Professor. Performance studies; postcolonial theory; creative writing; Afro-Caribbean and American Studies.

Heffelfinger, Cristal, PhD, University of Puerto Rico, Río Piedras, 2020. Assistant Professor. Linguistics, Discourse Analysis, Applied Linguistics, Intercultural Communication.

Maritza Stanchich, PhD, University of California Santa Cruz, 2003. Professor. Nineteenth- and twentieth-century American literature, Caribbean studies, Latino American studies, cultural and postcolonial studies.

Michael Sharp, PhD, University of Wisconsin, 1985. Professor. Romanticism; literature and ideas from the Victorian era; poetry.

Mirerza Gonzalez, PhD, University of Iowa (2002). Professor. Communicative competence, media for Hispanic communities in the United States, ethnicity and discourse, social imaginaries and journalistic narratives, critical analysis of media texts, memory and digital humanities.

Nalini Natarajan, PhD, Aberdeen University, 1983. Professor. Nineteenth-century British Narrative; women's literature; cultural studies; Postcolonial theory.

Nicholas Farclas, PhD, University of California, Berkeley, 1989. Professor. Syntax; Creole languages.

Patrick André Mather, PhD, University of Pittsburgh, 2000. Professor. Contact languages, sociolinguistics, sociophonetics, applied linguistics.

Richard Swope, PhD, West Virginia University, 2001. Professor. contemporary Narrative and North American 20th century; Literary Criticism and Theory.

Robert Dupey, PhD, University of Puerto Rico, Río Piedras (2006). Associate Professor. Comparative analysis of texts; narrative discourse; writing and research; code toggling; phonology/phonetics.

Yolanda Rivera Castillo, PhD, University of California, Davis, 1994. Professor. General Linguistics; syntax; phonology; Studies of Creole Languages.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

Meet the general requirements for admission to graduate studies at the Río Piedras Campus.

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

They must meet the specific requirements of the program to which you are applying:

1. Have a baccalaureate degree
2. With a concentration in English language arts or its equivalent.
3. Prepare a short personal essay on the graduate curriculum.
4. Provide two letters of recommendation
5. Have a minimum grade point average of 3.00

GRADUATION REQUIREMENTS:

Comply with the general graduation requirements in force at the Río Piedras Campus. In addition, students will need to meet the program-specific requirements:

1. Write a publishable essay (20-30 pages) and annotated bibliography in a research course (INGL 6891 or INGL 6893) based on research in the field of literature written in English or in English language studies.

PROGRAM OF STUDY:

Program Requirements. – Literature Area	Credits
INGL 6205 Critical Writing Seminar	3
ENGLISH 6415 Introduction to Literary Criticism and Theory	3
Selected Courses with Counseling	21
INGL 6891 Research Essay in Literature I	3
INGL 6892 Research Essay in Literature II	0
Total Credits	30

Program Requirements – Linguistics Area	Credits
INGL 6205 Critical Writing Seminar	3
INGL 6051 Syntax	3
ENGLISH 6499 Phonology	3

Selected Courses with Counseling	18
INGL 6893 Research Essay in Linguistics I	3
INGL 6894 Research Essay in Linguistics II	0
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

INGL 6205 Critical Writing Seminar

Three credits. Three hours of lecture a week.

Crash course to practice writing essays on literature and language. Students make full use of the library to conduct research, as well as computers and the Internet. Face-to-face, hybrid and online course.

ENGLISH 6415 Seminar in Literary Criticism and Theory

Three credits. Three hours of lecture a week.

Theory and main opinions held by critics. Practical exercises. Face-to-face, hybrid and online course.

ENGLISH 6051 Syntax I

Three credits. Three hours of lecture a week.

Prerequisite: INGL 4207 and/or INGL 4205 or equivalent.

Detailed analysis of a large number of syntactic phenomena in English and theoretical issues relevant to the topic. Face-to-face, hybrid and online course.

ENGLISH 6499 Seminar on the Phonology of English

Prerequisite: Permission from the Director of the Department Structuralist, generative, and natural approach to the phonology of English. Face-to-face, hybrid and online course.

INGL 6891 Research Essay in Literature I

Three credits. Three hours of research a week.

Prerequisite: Have 27 credits passed with 3.0 or higher Study and development of the research methods and sources necessary for the writing of a Research Essay in Anglophone Literature and Culture. Special emphasis is placed on archival and bibliographic research in literature, creative writing, literary history, oral literature, and performance. The focus on field research, printed and electronic material, and experimental methods varies in relation to the nature of the topic chosen for the essay.

INGL 6892 Continuation of Research Essay in Literature II Zero

credits. Three hours of research a week.

Prerequisite: Have passed 27 credits with 3.00 points or more.

Continuation of the study and development of the research methods and sources necessary for the writing of a research essay in Anglophone literature and culture. Special emphasis is placed on archival and bibliographic research in literature, creative writing, literary history, oral literature, and performance. The focus on field research, printed and electronic material, and experimental methods varies in relation to the nature of the topic chosen for the essay.

OTHER COURSE DESCRIPTIONS:**INGL 6005 The Contemporary American Drama.**

Three credits. Three hours of lecture a week.

Prerequisite: Be enrolled in a Graduate Program or Teacher Authorization (In SIS: Graduate Student or Professor's Permit) Analysis of American Drama after World War II emphasizing the Works of Arthur Miller, Tennessee Williams, and Edward Albee.

ENGLISH 6029 Special Topics in Literature

Three credits. Two hours of lecture, one hour of discussion a week.

Prerequisites: Be enrolled in a Graduate Program at the UPR or authorized by the professor of the Bachelor's Degree Program at the University of Buenos Aires. Topics vary by semester. Face-to-face, hybrid and online course.

ENGLISH 6035 Modern African Fiction

Three credits. Three hours of lecture a week.

Prerequisite: Graduate student Study of the formal development of the novel and short story in English-speaking areas of Africa since 1950. Face-to-face, hybrid and online course.

ENGLISH 6036 African American Fiction

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student or authorized by the professor.

Study of some of the major novels and major short stories written by African-American authors from Olaudah Equiano to the present. Special attention is given to the development of African-American techniques and themes.

INGL 6037 Fiction Studies

Three credits. Three hours of seminar per week.

Prerequisite: Prerequisites: Be enrolled in a Graduate Program at the UPR. A specialized course on the subject that reflects trends and issues in the study of fiction. Topics may vary by semester. Face-to-face, hybrid and online course.

ENGLISH 6038 Caribbean Literature for Young People

Three credits. Three hours of seminar per week.

Introduction to writers of English-speaking Caribbean literature for adolescents and their works, with special attention to theoretical approaches, their history and development, and contemporary issues such as identity formation, nationhood, gender, urban conflicts, the environment, and migration.

ENGLISH 6039 Caribbean Children's Literature

Three credits. Three hours of seminar per week.

Introduction to children's literature from the English-speaking Caribbean including theoretical approaches, its history and development, and comparison with children's literature from the rest of the Caribbean.

ENGLISH 6045 Seminar on Language and Culture

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student or a professor authorized by a professor An analysis of the cultural and social organization of language media.

INGL 6046 Pre-Raphaelites, Decadents and Aesthetes

Three credits. Three hours of lecture a week.

Prerequisite: Graduate student or professor's approval The literary movements of the late nineteenth century in England, with an emphasis on the theoretical and actual parallels between that work and Poe's work in America, the poets of French Symbolism and Modernism.

INGL 6049 Seminar on Latino/a Literature in the U.S.

Three credits: Two hours of lecture and one hour of discussion.

Prerequisites: Be enrolled in a Graduate Program at the UPR and authorization from the professor Comprehensive study of the literary works of Latino writers in the United States within a historical-cultural and social framework emphasizing the use of literary theories and structural critical analysis.

ENGLISH 6052 Syntax II.

Three credits. Three hours of lecture a week.

Prerequisite: INGL 4207 and/or INGLE 4205 or equivalent.

Detailed analysis of a large number of syntactic phenomena in English and theoretical issues relevant to the topic.

INGL 6057 Narrative Writing

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

Prerequisite: Proficiency in English Intensive individual work in narrative writing for advanced students.

INGL 6059 Current Trends in Literary Theory and Criticism

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

Specialized course on current trends in theory and criticism. Topics vary by semester.

ENGLISH 6065 Narrative and the City in the Nineteenth Century

Three credits. One hour of lecture, two hours of discussion, and three hours of independent study per week.

Prerequisite: INGL 3218 or INGL 4016 The study of the connection between the British novel and the city in the 19th century. It includes the most recent literary, cultural, and ideological criticism. Analysis of the critical role of the city in its formal, structural and thematic aspects.

ENGLISH 6066 Texts, Authors and Critics

Three credits. Three hours of seminar per week.

This course will focus on one or more authors and their texts, and the criticism related to their work.

ENGLISH 6067 Studies in Literature and Film

Three credits. One hour of lecture and two hours of discussion per week. Prerequisites: Graduate Specialized course in trends and issues in the study of film and literature. Topics vary by semester.

ENGLISH 6068 Literature as a Model of Writing

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

Emphasis is placed on published texts of poems, short stories, autobiographical writing, dramatic dialogue, children's literature, and folk tales and children's games from Puerto Rico, the United States, and the Caribbean as models for developing creative writing techniques. Students will practice various creative forms of writing and improve the skills of proofreading and revising texts.

ENGLISH 6100 Introduction to Linguistics

Three credits. An hour and a half of lecture and an hour and a half of discussion per week is designed for students who have little or no preparation in linguistics and the study of language. The course includes an introduction to the study of contemporary linguistic theory in the following areas: phonetics and phonology, morphology, syntax, semantics, applied linguistics, discourse analysis, as well as linguistic variation and change. The course has a dual purpose: to familiarize the student interested in language teaching with terminologies and problems specific to the field of linguistics and to provide a theoretical background for those interested in pursuing the study of the language.

ENGLISH 6105 Discourses of Gender and Sexuality

Three credits: Two hours of lecture and one hour of discussion.

Prerequisites: Be enrolled in a Graduate Program at the UPR or authorization from the professor Introduction to the theoretical paradigms that include theories of gender and sexuality. The course explores the ways in which diverse discourses of gender and sexuality construct relationships between theory and practice and between identity and community.

ENGLISH 6106 Applied Linguistics

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

This course considers how the field of linguistics contributes to the solution of real-world problems involving language teaching and learning, the creation of language tests, curriculum design, literacy, and language planning. It examines the optimal ways to learn and teach a language, the social factors that affect language learning, the relationship between oral and written language, the methods used to teach literacy in different parts of the world, and efforts to plan language as a human resource. All of the material presented is applied to the current linguistic situation in Puerto Rico to provide students with possible avenues to change their practice as teachers.

ENGLISH 6127 Seminar on Twentieth-Century American Literature

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

Prerequisites: Be enrolled in a UPR Graduate Program and authorized by the professor Study of the literary forms, changes in style, and cultural logic that inform twentieth-century American literature.

INGL 6400 African American Drama and Poetry.

Three credits. Three hours of lecture a week.

Prerequisite: Graduate status or teacher's authorization Study of the most important dramas and poems by African-American authors from Lucy Terry to the present.

ENGLISH 6405 Seminar on Nineteenth-Century American Literature

Three credits. Three hours of lecture a week.

Study of a literary theme common to writers of the century. The theme may vary from time to time.

INGL 6406 O'Neill and His Time

Three credits. Three hours of lecture a week.

Be enrolled in a Graduate Program or Teacher Authorization The Drama in America Before Edward Albee, with an emphasis on the works of Eugene O'Neill.

INGL 6407 Contemporary English Drama

Three credits. Three hours of lecture a week. English drama after the Second World War.

ENGLISH 6408 Comparative Analysis of the Phonology of English and Spanish

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate degree and a course in phonetics or phonemics

Analysis of the phonetic and phonemic systems of English and Spanish-including some of the main dialect variants. Vowel, consonant, and syllabic structures; Accentuation and intonation rules.

INGL 6409 Practical Literary Criticism: Theatre

Three credits. Three hours of lecture a week.

Prerequisite: Have a Bachelor of Arts.

Exercises in the writing of contemporary theatre criticism, with discussion of it. Emphasis on practice rather than theory. It may sometimes be replaced by a critique of novels or contemporary cinematography

ENGLISH 6410 Drama and Poetry of the English-Speaking Caribbean

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student.

A study of the poems and plays of writers from the English-speaking Caribbean such as: Derek Walcott, Edward Kamau Brathwaite, Martin Carter and Errol John.

INGL 6411 Poetry Writing.

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

Prerequisites: fluency in English; Teacher's authorization based on a review of a sample of poetry works by the student.

Intensive and individualized work in the writing of poetry.

INGL 6416 Seminar on British Poetry of the Twentieth Century.

Three credits. Three hours of lecture a week.

Prerequisite: Have a Bachelor of Arts Thorough study of the poetry of a given author. A brief study of the author as a critic of his work by other authors.

INGL 6417 Seminar on Post-World War II American Novels

Three credits. Three hours of lecture a week.

Prerequisite: Have a Bachelor of Arts degree in the study of one or two major American novelists of the 20th century. Authors may vary from time to time.

ENGLISH 6418 Seminar on Modern American Poetry

Three credits. Three hours of lecture a week.

Prerequisite: Have a Bachelor of Arts Degree Study of the poetic works of some of the most distinguished poets of the United States and their critical work as it illuminates their poetry.

INGL 6419 Seminar on the British Novel of the Pre-World War II Period

Three credits. Three hours of lecture a week.

Prerequisite: Have a Bachelor of Arts A course in the analysis of no less than five of the most important novelists of the period from 1900 to World War II; paying special attention to their themes and techniques

ENGLISH 6420 The English Novel from Gothic to Naturalism

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student of The Romantic current as seen through Gothic, Historical, and Detective or sectional novels. The rise of realism and naturalism, with special interest in innovations in narrative structure and characterization. Readings of the critics of that time.

INGL 6425 Seminar on Seventeenth-Century English Literature: Donne and Johnson

Three credits. Three hours of lecture a week.

Literary Trends in English Poetry of the Early Seventeenth Century.

INGL 6426 Chaucer

Three credits. Three hours of lecture a week.

Language, poetic and narrative techniques, French and Italian influences.

INGL 6427 Whitman and Dickinson and their Influence on the Twentieth Century.

Three credits. Three hours of lecture a week.

The poetry of Walt Whitman and Emily Dickinson, and their influence on twentieth-century poets such as Pound, Williams, and Cummings.

ENGLISH 6428 Seminar on Nineteenth-Century American Literature: Romanticism and Transcendentalism

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor's degree with a major in English An intensive study of American literature from the early part of the nineteenth century, with an emphasis on Romanticism and transcendentalism; the most important figures of the time: Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman.

ENGLISH 6429 Women in Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student The Image of Women Through the Ages. Emphasis will be placed on the works of great authors such as: Shakespeare, Milton, Pope, etc.

INGL 6430 Shakespeare: Selected Themes.

Three credits. Three hours of lecture a week.

Representative works from each of the major categories will be included: tragedy, comedy, history, social problems, romance, not necessarily grouped by the category to which they belong. Face-to-face, hybrid and online course. It can be repeated up to two times up to 6 credits.

ENGLISH 6431 Shakespeare and the Gender Question

Three credits. Three hours of seminar per week.

Prerequisite: Be a graduate-level student or the professor's authorization Study of Shakespeare's works and their reception with particular orientation toward the expectations of literary genre within and against which Shakespeare worked and the historically important role that genre criticism has played in the analysis of his works, especially comedies and romances.

ENGLISH 6435 The Grammatical Structures of English and Spanish

Three credits. Three hours of lecture a week.

Prerequisite: Bachelor of Arts and higher level English and Spanish courses Study of the similarities and differences between the syntactic structures of the two languages, such as simple orientation structure, compound and sentence sentence, use of parts of speech, and tense theory.

INGL 6436 British Drama of the Restoration and the Eighteenth Century (1660-1800)

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate-level student or permission of the director Study of Drama and Its Development in Britain from 1660 to 1800: Critical Theory and the Importance of This Theatre in the Subsequent Development of English Theatre.

INGL 6437 Drama of the Tudor and Stuart Period

Three credits. Three hours of lecture a week.

Selected readings of the works of Lyly, Kyd, Marlowe, Johnson, Beaumont, Fletcher, and others, except Shakespeare.

ENGLISH 6438 Sex, Love, and Marriage in Restoration and Eighteenth-Century British Literature.

Three credits. Three hours of seminar per week.

Seminar on the representation of sex, love, and marriage and related topics such as gender roles, legal and cultural aspects that affected this representation in poetry, prose, drama, and fiction from the Restoration to the Regency (1660-1820).

ENGLISH 6439 Studies in Poetry

Three credits. Three hours of discussion a week.

Course on specialized topics that reflect the currents and problems in the study of poetry. Topics vary each semester. The course can be repeated up to a maximum of 9 credits. Face-to-face, hybrid and online course.

ENGLISH 6440 English Language Seminar: American Dialects

Three credits. Three hours of lecture a week.

Phonological, grammatical, and lexical variations of spoken English in North America and the Caribbean region.

ENGLISH 6446 Language and Literature Seminar: Language in the Literature of the Past

Three credits. Three hours of lecture a week.

Prerequisite: Have a bachelor's degree Detailed study of the language and rhetoric of literary texts separated from each other by periods of approximately one hundred years.

INGL 6447 Studies in Drama

Three credits. Three hours of seminar per week.

Prerequisites: Graduate students or teacher's authorization Course specialized topics that reflect on currents and problems in the study of drama. Topics vary each semester.

ENGLISH 6449 Seminar on Major Themes in Medieval and Renaissance Literature

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate A series of studies on a single subject examined in the light of various sources and comparative analysis to reveal the work in its most comprehensive aspects. Detailed analysis of the text in relation to its European fund.

INGL 6450 Seminar on the British Novel of the Eighteenth Century

Three credits. Three hours of lecture a week.

The most important novelists of the time: Defoe, Richardson, Fielding, Sterne, and Smollet; with special attention to the evolution of the novel's form.

INGL 6455 Seminar: Neoclassical Movement in the Age of Samuel Johnson

Three credits. Three hours of lecture a week.

Analysis of the literary concepts of the time as reflected in prose, poetry and drama, excluding the novel.

INGL 6456 The English Satire of the Eighteenth Century

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate Terms and definitions; classical satire; popular origins and their parallels; Reasons; Forms; Rhetorical devices, tone. Reports on earlier and later aspects of English satire, parallels and contrasts in other literatures.

INGL 6457 Seminar on English Literature Seventeenth Century: Milton

Three credits. Three hours of lecture a week.

The poetry and prose of John Milton, with special attention to *Paradise Lost*.

INGL 6458 The Romantic Quest.

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate Background and general tendencies of the Romantic movement in England. The most important poets: Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, will be studied in relation to these figures.

INGL 6460 The Victorian Poets.

Three credits. Three hours of lecture a week. Prerequisite: Have a baccalaureate A study of the most prominent Victorian poets: Tennyson, Browning,

Arnold; Selections from other poets of lesser importance, such as Kipling, Hardy, and Housman; and prose on poetry and aesthetics with the figures studied.

INGL 6465 Wordsworth to Arnold, The Sources of Modern Thought in Literary and Social Criticism in the Nineteenth Century

Three credits. Three hours of lecture a week.

Prerequisite: Have a Bachelor's Degree in Selected Criticism of Wordsworth and Coleridge, with emphasis on the preface to lyrical ballads and literary biography; romantic essayists: Hazlitt, Lamb, Newman, Arnold, Ruskin, and Pater. Writers of novels on social issues: Gaskell, Dickens, Charles Kingsley.

ENGLISH 6466 Seminar on Bilingualism.

Three credits. Three hours of lecture a week.

Prerequisite: General Concepts of Linguistics Sociolinguistic study of the problems of bilingualism and bidialectism in their cultural environment in Puerto Rico, the Americas, and other countries.

ENGLISH 6467 History and Development of the English Language in the United States

Three credits. Three hours of lecture a week.

Prerequisite: Have a Baccalaureate.

Historical background and development of U.S. English from its beginnings in the seventeenth century to the present. Special attention to the development of the American dialect norm and lower dialects.

ENGLISH 6468 Seminar in Post-World War II English Novels

Three credits. Three hours of lecture a week.

Special attention will be given to the works of John Braine, Allan Sillitoe, David Storey, and Raymond Williams.

ENGLISH 6469 Sociolinguistics and American Creole Languages

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate degree Study of the language in its cultural environment in the light of the most recent research and theories. Emphasis on creole languages.

Face-to-face, hybrid and online course.

ENGLISH 6470 Seminar on American Literature: Realism and Naturalism

Three credits. Three hours of lecture a week.

Prerequisite: Have a bachelor's degree in American literature from the latter part of the nineteenth century and the first part of the twentieth century with an emphasis on the realist and naturalistic movements in fiction. Most important writers of the time: Twain, Howells, James, Crane and Dreiser.

ENGLISH 6475 Dialectology of the English-speaking World

Three credits. Three hours of lecture a week.

Prerequisite: Graduate student or teacher's authorization A study of English as a native language, second language, and auxiliary international language. The methodologies used to describe these varieties and an analysis of the structures and evaluations of these varieties.

INGL 6480 Shaw and His Time

Three credits. Three hours of lecture a week.

Drama in England before World War II, with special interest in Shaw's works.

ENGLISH 6485 Seminar in American Novels before World War II

Three credits. Three hours of lecture a week.

The study of at least three important American novelists from the period 1900 to World War II, with special attention to their themes and techniques.

ENGLISH 6486 Caribbean Theory and Literature

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Be a master's student or permission from the professor Study of the literary and cultural theories of the Caribbean in relation to the literary texts of the region.

ENGLISH 6488 Anglo-Creole Literature and Dialects of the Caribbean

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma from the main contemporary poets and novelists, with special attention to the use of the Creole dialects of English in their works and some considerations about their socioeconomic and historical background. Face-to-face, hybrid and online course.

ENGLISH 6489 Caribbean Narrative

Three credits. Three hours of lecture a week.

Prerequisite: Possess a baccalaureate and/or teacher's authorization Study of novels and short stories by writers of the English-speaking Caribbean with special emphasis on the development of distinctively Caribbean themes, techniques, and language. Face-to-face, hybrid and online course.

ENGLISH 6490 Introduction to Anglo-Saxon Language and Literature

Three credits. Three hours of lecture a week.

The study of the grammar, syntax, vocabulary and phonology of Anglo-Saxon. A selection of readings of Anglo-Saxon prose and poetry.

ENGLISH 6491 Studies in Anglo-Saxon Literature

Three credits. Three hours of seminar per week.

Prerequisite: English 6490 Study focused on the major works of Anglo-Saxon literature in their textual and cultural contexts.

ENGLISH 6496 Seminar on the English Language: Problems in the Analysis of Contemporary English

Three credits. Three hours of lecture a week.

The different theories accredited today and the different analytical processes that are employed. Face-to-face, hybrid and online course.

ENGLISH 6497 American Literature of the Colonial and Eighteenth Century

Three credits. Three hours of seminar per week.

Prerequisite: Be accepted into the Graduate Program or permission of the director Study of writings in English from the beginnings of the conquest and colonization of the United States to the eighteenth century. Special attention will be given to representative authors such as Anne Bradstreet, Edward Taylor, and Michael Wigglesworth and to the religious, historical, and political background that precedes Romanticism in the United States. The genres of narrative, sermons, biographies, newspapers and diaries will also be studied.

ENGLISH 6505 Seminar on the Semantics of English

Three credits. Three hours of lecture a week.

The study of various semantic phenomena of modern English, with consideration of proposals for their representation in comprehensive grammatical descriptions. Individual projects on various topics.

INGL 6507 English Acquisition: A Psycholinguistic Perspective

Three credits. Three hours of lecture a week.

Prerequisite: Director's permission Comprehension, production, and acquisition of language considered from a theoretical point of view. Linguistic research that tests the various models related to language acquisition is examined.

ENGLISH 6509 The Civilization of the West

Three credits. Three hours of lecture a week.

Examination of modern rhetorical theories based on the classical tradition of Plato and Aristotle.

ENGLISH 6515 Film and Literature: Collaborative Formulas

Three credits. Two hours of lecture per week.

A study of the relationship between literature and film, with a special interest in the way in which these art formulas have influenced each other both technically and thematically, and how, at certain distinguishable moments, they have collaborated with each other. Works and/or scripts by literary figures such as Shakespeare, Hammett, Conrad, Foster, Fitzgerald, Hemingway, and Faulkner are studied alongside the film work of directors such as Ford, Houston, Welles, and Branagh.

ENGLISH 6517 Literary Criticism and Film Theory

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: B.A. or Professor's Authorization Examination of the schools of literary criticism and the beginnings of Film Theory in the twentieth century within this context. A meticulous study of literary and film theories developed by literary film theorists and filmmakers. The following literary schools will be included: formalism, realism, authorship, structuralism and semiotics, phenomenology.

INGL 6893 Research Essay in Linguistics I Three

credits. Three hours of research a week.

Prerequisite: Complete the required coursework (27 credits) for the master's program Have passed 27 credits with 3.00 points or higher Study and development of the research methods and sources necessary for the writing of a Research Essay or Project in the English language, linguistics, and culture. Special emphasis is placed on archival and bibliographic research in the study of language and linguistics. The focus on field research, printed and electronic material, and experimental methods varies in relation to the nature of the topic chosen for study.

INGL 6894 Continuation of Research Essay in Linguistics II Zero

credits.

Prerequisite: Have 27 credits passed and 3.0 or higher average Continuation of the study and development of the research methods and sources necessary for the writing of a Research Essay or Project in the English language, linguistics and culture. Special emphasis is placed on archival and bibliographic research in the study of language and linguistics. Focus on field, print research and experimental methods vary in relation to the nature of the subject chosen for study.

INGL 6905 Independent Study

Three credits. Three hours of lecture a week.

Prerequisites: Have passed 12 graduate credits, approval by the Graduate Board.

A stand-alone course on a topic in literature or linguistics that is not offered as a regular course, with an arrangement between the teacher and the student. The course can be taken a maximum of two (2) times. (6 credits). Face-to-face, hybrid and online course.



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Dr. Patrick-André Mather Phone: (787) 764 – 0000 ext.

89611, 89612, 89653

Portal: <http://humanidades.uprrp.edu/ingles/>

Email: pgi.rrp@upr.edu

Portal: http://humanidades.uprrp.edu/graduados/?page_id=572

DEGREE: PhD in Philosophy and Letters with a specialization in English

The Doctor of Philosophy and Letters degree with a specialty in English is offered in the areas of literature and linguistics of the English-speaking Caribbean. The Program prepares specialists, critics, and linguists, who will contribute to the development of Caribbean studies as a field of academic knowledge within the context of post-secondary education.

TEACHERS:

Alma Simounet, Ed.D, Inter-American University of Puerto Rico, 1987. Professor. Bilingualism; ethnolinguistics.

Ann Albuyeh, PhD, University of Wisconsin, 1985. Professor. Historical linguistics; psycholinguistics; Ethnolinguistics

Carmen Haydée Rivera Vega, PhD, Northeastern University, 2001. Professor. Latino/a Literature; ethnic literatures of the United States; Diaspora and Women's Studies.

Daniel Nevárez Araújo. PhD, University of Massachusetts, Amherst, 2021. Assistant Professor. Film Studies, disability studies, medical humanities.

Dannabang Kuwabong, PhD, McMaster University, 1997. Professor. Creative Writing; oral traditions; women's poetry; You study the African diaspora.

Don Walicek, PhD, University of Puerto Rico, Río Piedras (2009), Professor. sociolinguistics, sociohistorical linguistics, creole languages, linguistic ideologies, language change, discourse analysis, cultural studies.

James P. Conlan, PhD, University of California, Riverdale, 1999. Professor. Medieval and Renaissance literature; textual criticism, travel narrative from the early New World.

Heffelfinger, Cristal, PhD, University of Puerto Rico, Río Piedras. Assistant Professor. Linguistics, Discourse Analysis, Applied Linguistics, Intercultural Communication

Janet MacLennan, PhD, Ohio University, (2000). Professor. Areas of expertise: International Communication, Relational Communication, Intercultural Communication

Loretta Collins Klobah, PhD, University of Iowa, 1999. Professor. Performance studies; postcolonial theory; creative writing; Afro-Caribbean and American Studies.

Maritza Stanchich, PhD, University of California Santa Cruz, 2003. Professor. Nineteenth- and twentieth-century American literature, Caribbean studies, Latino American studies, cultural and postcolonial studies.

Michael Sharp, PhD, University of Wisconsin, 1985. Professor. Romanticism; literature and ideas from the Victorian era; poetry.

Mirerza Gonzalez, PhD, University of Iowa (2002). Professor. Communicative competence, media for Hispanic communities in the United States, ethnicity and discourse, social imaginaries and journalistic narratives, critical analysis of media texts, memory and digital humanities.

Nalini Natarajan, PhD, Aberdeen University, 1983. Professor. Nineteenth-century British Narrative; women's literature; cultural studies; Postcolonial theory.

Nicholas Farclas, PhD, University of California, Berkeley, 1989. Professor. Syntax; Creole languages.

Patrick André Mather, PhD, University of Pittsburgh, 2000. Professor. Contact languages, sociolinguistics, sociophonetics, applied linguistics.

Richard Swope, PhD, West Virginia University, 2001. Professor. contemporary Narrative and North American 20th century; Literary Criticism and Theory.

Robert Dupey, PhD, University of Puerto Rico, Río Piedras (2006). Associate Professor. Comparative analysis of texts; narrative discourse; writing and research; code toggling; phonology/phonetics.

Yolanda Rivera Castillo, PhD, University of California, Davis, 1994. Professor. General Linguistics; syntax; phonology; Studies of Creole Languages.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

Meet the general requirements for admission to graduate studies at the Río Piedras Campus.

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Program-Specific Requirements

In addition to the general admission requirements to be admitted to graduate studies at the Río Piedras Campus, candidates must meet the following requirements:

1. A Master of Arts degree or equivalent in literature, language, linguistics in English, or related area.
2. Average of 3.00 points in the specialty and in all previous graduate studies.
3. Proficiency in English and knowledge of Spanish.
4. An essay of three to five pages describing why the candidate is pursuing a Ph.D. in Caribbean literature or language.
5. An interview with the members of the graduate admissions committee (if necessary).
6. Three letters of recommendation in the format provided on the application form.
7. An original research paper on the topic of the Caribbean or related studies (e.g., master's thesis, published article, research monograph, or other).

GRADUATION REQUIREMENTS:

In addition to the general graduation requirements of the Río Piedras Campus, students will be required to:

1. Meet the one-year residency requirement.
2. Complete 6 credits (depending on the nature of the courses taken) in a third language or pass an equivalent proficiency exam.
3. Take the course INGL 6488 Literature, Language and Culture of the English-speaking Caribbean, before starting the doctoral seminars.
4. Two 6000-level courses in Caribbean literature (for literature students) or Caribbean language (for linguistics students).
5. Complete 36 graduate credits after attainment of the master's degree, a minimum of 15 of which will consist of 8000-level English doctoral seminars in your area of study.
6. Pass the degree exam.

7. Defend a research proposal.
8. Write a doctoral dissertation.

PROGRAM OF STUDY:

The doctoral program with a specialty in English is offered in the areas of literature and linguistics of the English-speaking Caribbean. Related fields include studies in literary genres, second language acquisition, and linguistics. The INGL 6488 course is required for all admitted students no matter which area they select.

Requirements - Literature Area	Credits
INGL 6488 (requirement)	3
Electives in Literature	9
INGL Elective Courses 6410, 6486, 6489 (Take two of these courses)	6
Caribbean Language Course	3
8000 Level Literature Courses (5 courses)	15
ENGLISH 8099 Research in Caribbean Literature and Linguistics.	0
INGL 8890 Degree Examination	0
ENGLISH 8891 Dissertation I	0
ENGLISH 8892 Dissertation II	0
Total Credits	36

Requirements - Area of Linguistics	Credits
INGL 6488 (requirement)	3
Electives in Linguistics	9
INGL Elective Courses 6051, 6499, 6469, 6475, 6045 (Must take two of these courses)	6
Caribbean Literature Course	3
8000 Level Linguistics Courses (5 courses)	15
ENGLISH 8099 Research in Caribbean Literature and Linguistics.	0
INGL 8890 Degree Examination	0
ENGLISH 8891 Dissertation I	0
ENGLISH 8892 Dissertation II	0
Total Credits	36

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

ENGLISH 6045 Seminar on Language and Culture

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student or a professor authorized by a professor. An analysis of the cultural and social organization of language media.

ENGLISH 6051 Syntax I

Three credits. Three hours of lecture a week.

Prerequisite: INGL 4207 and/or INGL 4205 or equivalent.

Detailed analysis of a large number of syntactic phenomena in English and theoretical issues relevant to the topic. Face-to-face, hybrid and online course.

ENGLISH 6410 Drama and Poetry of the English-Speaking Caribbean

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student.

A study of the poems and plays of writers from the English-speaking Caribbean such as: Derek Walcott, Edward Kamau Brathwaite, Martin Carter and Errol John.

ENGLISH 6469 Sociolinguistics and American Creole Languages

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate degree. Study of the language in its cultural environment in the light of the most recent research and theories. Emphasis on creole languages.

Face-to-face, hybrid and online course.

ENGLISH 6475 Dialectology of the English-speaking World

Three credits. Three hours of lecture a week.

Prerequisite: Graduate student or teacher's authorization. A study of English as a native language, second language, and auxiliary international language. The methodologies used to describe these varieties and an analysis of the structures and evaluations of these varieties.

ENGLISH 6488 Anglo-Creole Literature and Dialects of the Caribbean

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma from the main contemporary poets and novelists, with special attention to the use of the Creole dialects of English in their works and some considerations about their socioeconomic and historical background. Face-to-face, hybrid and online course.

ENGLISH 6486 Caribbean Theory and Literature

Three credits. Two hours of lecture and one hour of discussion per week. Prerequisite: Be a master's student or permission from the professor Study of the literary and cultural theories of the Caribbean in relation to the literary texts of the region.

ENGLISH 6489 Caribbean Narrative

Three credits. Three hours of lecture a week.

Prerequisite: Possess a baccalaureate and/or teacher's authorization Study of novels and short stories by writers of the English-speaking Caribbean with special emphasis on the development of distinctively Caribbean themes, techniques, and language. Face-to-face, hybrid and online course.

ENGLISH 6499 Seminar on the Phonology of English

Prerequisite: Permission from the Director of the Department Structuralist, generative, and natural approach to the phonology of English. Face-to-face, hybrid and online course.

ENGLISH 8099 Research in Caribbean Literature and Linguistics

Zero credits. One hour of research per week.

Prerequisites: Authorization from the director. Have completed five 8000 level seminars in Literature or Linguistics in (English).

Advanced study and development of the research methods and the primary, bibliographic, and field resources necessary for the passing of the degree exams, the writing of the dissertation proposal, and the completion of the doctoral dissertation in the following semesters.

INGL 8890 Writing Critical Doctoral Essays

Zero credits. One hour of research per week.

Prerequisite: INGL 8099 Preparation and writing of an extensive critical essay in the primary area and two substantial critical essays in two secondary areas of study as requirements for doctoral degree aspiration. Face-to-face, hybrid and online course.

ENGLISH 8891 Dissertation I

Zero credits. One hour of dissertation per week.

Prerequisite: INGL 8890 Submission and defense of the dissertation proposal and completion of the initial stage of dissertation writing.

ENGLISH 8892 Continuation Dissertation

Zero credits. One hour of dissertation per week.

Prerequisite: INGL 8895 Continuation of the writing of the doctoral dissertation.

OTHER COURSE DESCRIPTIONS:

ENGLISH 8005 Lingua Franca and Creole

Three credits. Three hours of seminar per week.

Prerequisite: INGL 6469 Diachronic and synchronic analysis of English-based creole languages, and the study of current theories on the processes of lingua franca formation, creolization, and desciolization.

ENGLISH 8006 The Encounter Between Africa and the West

Three credits. Three hours of seminar per week.

Prerequisites: M.A in English or related areas; INGL 6488 or equivalent Study of the discursive relationship between Africa and the West over the past five hundred years, with a focus on major European, African, and Caribbean texts that study racism, the slave trade, slavery, colonialism, and neocolonialism.

INGL 8007 Seminar on the Birth and Death of Language

Three credits. Three hours of seminar per week.

Prerequisites: INGL 6467 or 6475 or 6466 or 6045 or 6469 or teacher's permission. Analysis of the "life cycle" of languages, starting at birth and passing through change, diffusion, maintenance, displacement, death and rebirth. These stages are considered from both the perspective of the individual speaker and the speech community. The causes, processes, and outcomes of each stage are outlined.

and planning is explored as a means of regulating the cycle. Special attention is paid to the global role of English today and to the complicated linguistic situation in the Caribbean; However, examples are taken from the full range of human language varieties.

ENGLISH 8008 The Art of Derek Walcott

Three credits. Three hours of seminar per week.

Prerequisites: INGL 6488, 6410 or teacher's permission Study of Walcott's artistic maturity through the four decades in which he has been the foremost poet and playwright in the English language. The starting point is historical: colonial Santa Lucia in the 1930s and 1940s, Walcott's childhood and conventional education, and the "condition" of Caribbean poetry in the early 20th century. Included is Walcott's interest in painting, poetry, and theater.

ENGLISH 8009 Language Acquisition and Creole Languages

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

Prerequisites: INGL 6051, INGL 6469, INGL 6507. Certain topics in the field of language acquisition, both mother tongue and second language, can shed light on issues in the field of creole languages, and vice versa. This course addresses those topics that are pertinent to both fields, such as simplification, lexification, expansion, etc., and reviews the various debates for and against universalist positions.

ENGLISH 8010 Caribbean Children's and Adolescent Literature

Three credits. Three hours of seminar per week.

Prerequisite: INGL 6488 or Teacher's Clearance Exploring the Development of Literature for Children and Young Adults in the Context of Newly Acquired Independence in the Caribbean. Students become familiar with the critical and theoretical approaches that best approach the decolonization of the imagination and cultural production. Folk tales and fables will be read and books by outstanding authors who express in an artistic way the transition to and consolidation of national independence and authenticity. The didactic purpose of the readings is emphasized: to instill in Caribbean children a sense of pride in their newly independent nations.

INGL 8015 V. S. Naipaul

Three credits. Three hours of seminar per week.

Prerequisites: INGL 6488 and 6489 or Professor's Authorization Study of V.S. Naipaul's prolific oeuvre including novels, short stories, stories, essays, autobiography, travel writings, and the innovative combination of various genres in prose. The course examines the author's controversial exploration of the colonial/postcolonial "condition" of his native Trinidad, the Caribbean region, Latin America, Africa, India, and the Islamic world.

ENGLISH 8016 Oral and Written Tradition of Caribbean Verse

Three credits. Three hours of seminar per week.

Prerequisites: INGL 6488, 6410 or Professor's Authorization Research on the History and Development of Poetry and Poetic Oral Expression in the English-speaking Caribbean. Examining the evolution of secular and religious expressions of orality and popular lyric from the slave eras of plantation, colony, and nationalism through the sophisticated folk traditions of reggae and calypso lyrics, folk poetry, and 20th-century acted "dub" poetry. Primary attention on the emergence of a distinctive and impressive body of written Caribbean poetry that incorporates the aesthetics of diverse regional and global poetic traditions.

ENGLISH 8017 Phonological Aspects of Caribbean Creoles

Three credits. Three hours of seminar per week.

Prerequisites: ENGLISH 6488, 6499 and 6469 or teacher's authorization Study of the most important phonological aspects of English-speaking Caribbean creole languages and their connection with other Creole, European and African languages.

INGL 8018 Caribbean Drama and Performance

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

Prerequisite: INGL 6488 and 6410 or teacher's authorization.

Careful study of the development of twentieth-century Caribbean drama and performance as a cultural mosaic reflected in: (1) the rich tradition of syncretic festivals, plays, masquerades, and folk performances derived from the diverse origins of the majority population, (2) formal literary or "art" theater from classical, Eastern, and European Greek sources to the present, (3) the unique multicultural, multilingual social milieu of the post-colonial Caribbean. Face-to-face, hybrid and online course.

ENGLISH 8019 Fieldwork in Caribbean Languages: Methodology and Analysis

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

Prerequisite: INGL 6488, 6469, 6045 or teacher authorization.

Discussion of the problems and principles of language study in its social and cultural context. It focuses on field study methodology, particularly data collection, data analysis, and interpretation of data, and their interrelationships. The research paradigms developed by William Labov and del Hymes are examined, as well as the most recent studies that have provided adaptations to these paradigms. These field methodologies serve as a basis for analyzing the past and current forms of Caribbean languages.

INGL 8020 The Narrative of Caribbean Women Writers

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

Prerequisites: INGL 6488, 6489 or teacher authorization.

Analysis of the narrative of Caribbean women writers in the context of the most recent critical approaches, such as narrative theory, feminist/gender, postcolonial, historical and sociopolitical theory. Face-to-face, hybrid and online course.

ENGLISH 8026 Caribbean Literature in the Metropolitan Context

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

Prerequisite: INGL 6488 or teacher authorization.

The study of the migratory experience, primarily from the English-speaking Caribbean, to Europe and North America, marked by historical events of the twentieth century such as the economic depression, World War II, independence, globalization, as recorded in the narrative, the script, the travel diaries, the memoirs, and testimonies of the Caribbean authors who write in the metropolitan centers.

ENGLISH 8027 Typology of Natural Languages and Creole Languages

Credits: 3 Three hours of seminar per week.

Prerequisites: ENGLISH 6488 or ENGLISH 6469 or ENGLISH 6475 or INGL 6530 or teacher authorization.

The course discusses similarities and differences between creole languages from a formal typology perspective (Halley 1997: 7): "the classification of languages or components of languages based on shared formal characteristics." The class discussion focuses on the typological classification of creole languages according to descriptions of previous studies on the topic and recent data that will be incorporated into the class discussion. Face-to-face, hybrid and online course.

ENGLISH 8028 The Historiography of Travel Narratives

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

Prerequisites: INGL 6488 or equivalent, authorization from the teacher.

Explore how narratives help determine images of "other" people and "other" lands through which an image or identity of "home" is constructed. Historical accounts from travel journals and their experiences are examined; and are contrasted with modern travel documents.

ENGLISH 8035 Postcolonial Theory and Caribbean Literature

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

Prerequisite: INGL 6488, 6486 or teacher authorization.

The study of the main approaches, texts and books of criticism of the analysis of colonial discourse and postcolonial literary theory and their connection with literary issues and texts of the Caribbean.

INGL 8045 Independent Study

Three credits. Three hours of discussion a week.

Prerequisites: approval by the Steering *Committee*.

A course of independent study on a subject of literature or linguistics, which is not offered as a regular course, with an arrangement between the teacher and the student. This course can only be taken once. Face-to-face, hybrid and online course.

ENGLISH 8080 Caribbean Literatures and Languages in a Global Context

Three credits.

Prerequisites: INGL 6488 or Teacher's Authorization Exploration of different contemporary (global) themes of literary forms, cultural theory, and linguistic analysis as they affect the study of literature, linguistics, and Anglophone Caribbean culture. The course can be repeated a maximum of three times under different topics. Face-to-face, hybrid and online course.

ENGLISH 8105 Time, Mode and Aspect in Caribbean Creole Languages

Three credits. Three hours of seminar per week.

Prerequisites: INGL 6488, INGL 6469, INGL 6051 or teacher authorization.

Study of the verbal systems of creole languages of the English-speaking Caribbean. Morphological, syntactic and semantic aspects of these systems are described from a comparative perspective.

ENGLISH 8106 Language and Power: The Construction of Sociopolitical Discourse in the Caribbean and the World

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

Prerequisites: INGL 6488 or INGL 6045 or equivalent or authorization from the teacher.

Research on the role of language in our perception of reality and in the formulation of our conception of the world has profoundly changed research developments in all fields of the humanities and social sciences in recent decades. This is an introductory course on the role of language in the construction of socio-political discourse and the systems linked to it. It includes the study of works produced by specialists in a myriad of disciplines such as linguistics, communications, literary studies, philosophy, history, political science, sociology, anthropology, economics, psychology, education, ethnicity and gender studies.

Face-to-face, hybrid and online course.

ENGLISH 8107 Imagining Caliban: The Presence of the Caribbean in the American Imaginary

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

Prerequisites: INGL 6488 or equivalent. Teacher's authorization.

The exploration of the Caribbean (its region and its people) as a presence that contributes to the configuration of the American imaginary in the formulation of an identity and in the production of a definition of aesthetics that affects literature, cinema and popular culture.

ENGLISH 8109 The Political Novel in the Caribbean

Three credits. Three hours of seminar per week.

Prerequisites: INGL 6488, 6489 or teacher's authorization.

The study of certain novels by Caribbean writers of the 20th and 21st centuries that focus on political aspects: patriarchy, workers' struggles, the formation of political parties, population movements from the countryside to the city or intra-islands, the relationship to the metropolitan centers of distinctive Caribbean societies.



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DEGREE: Master of Arts with a major in Linguistics

TEACHERS:

Héctor Aponte Alequín , PhD, University of Puerto Rico-Río Piedras, 2014. Assistant Professor, Faculty of Education, UPR-Río Piedras. Morphosyntax, variation, textual linguistics, Caribbean Spanish, linguistics applied to mass communication.

Sunny Cabrera Salcedo , PhD, University of Massachusetts-Amherst, 1999. Professor, Department of Hispanic Studies, Faculty of Humanities, UPR-Río Piedras. Lexico-semantics of Spanish, Hispanic dialectology, general linguistics.

Gibran Delgado Díaz, PhD, Indiana University at Bloomington, 2018. Assistant Professor. Sociolinguistics, phonetics and phonology, experimental phonetics, variation, morphosyntax, grammaticalization.

Robert Dupey Heding , PhD, University of Puerto Rico-Río Piedras, 2006. Professor, Department of English, Faculty of Humanities, UPR-Río Piedras. Contrastive analysis, narrative discourse, research and critical writing, code switching, phonology/phonetics.

Nicholas Faracías Photakis, PhD , University of California-Berkeley, 1989. Professor, Department of English, Faculty of Humanities, Río Piedras. Creole languages, syntax, phonology, sociolinguistics, applied linguistics.

Iraida Galarza, PhD, Indiana University at Bloomington, 2020. Assistant Professor. Second language acquisition, sociolinguistics, phonetics and phonology, applied linguistics.

Melvin Gonzalez Rivera , PhD, Ohio State University, 2011. Professor, Department of Hispanic Studies, Faculty of Arts and Sciences, UPR-Mayagüez. Syntax, semantics and pragmatics of Caribbean Spanish: linguistic attitudes and policies.

Rosa Guzzardo Tamargo , PhD, The Pennsylvania State University, 2012. Professor, Department of Hispanic Studies and Graduate Program in Linguistics, Faculty of Humanities, UPR-Río Piedras. Psycholinguistics, acquisition of Spanish as an L2, bilingualism, code switching, linguistic attitudes.

Carmen Hernández Torres, PhD, University of Puerto Rico-Río Piedras, 1994. Professor, Department of Hispanic Studies, Faculty of Humanities, UPR-Río Piedras. Spanish syntax; Acquisition of Spanish as a first language.

Luis Ortiz López , PhD, University of New Mexico, 1996. Professor, Department of Hispanic Studies, Faculty of Humanities, UPR-Río Piedras. Sociolinguistics, language contact, creolization.

Cristina Martínez Benito, PhD, The University of Texas at Austin, 2013. Assistant Professor, Center for Interdisciplinary Research Resources and Undergraduate Learning. Faculty of Natural Sciences, UPR-Río Piedras. Morphosyntax, languages in contact, languages in extinction, sociolinguistics, anthropological linguistics.

Doris Martínez Vizcarrondo , PhD, Universidad Autónoma de Madrid, 1998. Professor, Department of Hispanic Studies, Faculty of Humanities, UPR-Río Piedras. Hispanic linguistics, discourse analysis.

Patrick André Mather , PhD, University of Pittsburgh, 2000. Professor, Department of Foreign Languages, Faculty of Humanities, UPR-Río Piedras. Contact languages, sociolinguistics, sociophonetics, applied linguistics.

Nadjah Rios Villarini , PhD, University of Texas-Austin, 2004. Professor, Department of English, Faculty of General Studies, UPR-Río Piedras. Linguistic anthropology, applied linguistics.

Yolanda Rivera Castillo, PhD, University of California-Davis, 1994. Professor, Department of English, Faculty of Humanities, UPR-Río Piedras. Creole languages, phonology, syntax.

Alma Simounet Bey , EdD, Inter-American University of Puerto Rico, 1987. Professor, Department of English, Faculty of Humanities, UPR-Río Piedras. Ethnolinguistics, multilingualism, languages in contact.

Don Walicek Lindley, PhD, University of Puerto Rico-Río Piedras, 2009. Professor, Department of English and Graduate Program in Linguistics, Faculty of Humanities, UPR-Río Piedras. Sociolinguistics, socio-historical linguistics, language and ideology, language contact in the Caribbean.

ADMISSION REQUIREMENTS:

General requirements of the Río Piedras Campus:

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

In addition to meeting the general admission requirements for graduate studies at the Río Piedras Campus, you must meet the specific requirements of the Master of Arts with a Major in Linguistics:

1. Have passed (with A or B) 9 undergraduate or higher level credits in Linguistics (If you do not have these, you will take an introductory course offered by the PGL during your first semester as a prerequisite for the Master's degree.)
2. An interview (if required by the evaluation committee of the admission applications).

Required Documents for the Application for Admission

1. Applying for admission to graduate studies on the "ApplyYourself" platform
2. Two letters of recommendation written by persons who have an academic relationship with the applicant and who discuss the applicant's performance, critical analysis skills, and potential to conduct academic research and to successfully complete graduate studies.
3. Two official copies of credit transcripts from all institutions from which the applicant has earned an academic degree.
4. An essay of between 500 and 1000 words in which the applicant describes his/her academic or professional background in areas related to Linguistics, justifies his/her interest in the MA in Linguistics and his/her commitment to research, and details his/her academic and professional goals.
5. A sample of an academic work (e.g., an academic article, a chapter of a thesis or book, an essay or monograph of a course, etc.) from among 10 and 20 pages, of the applicant's own and sole authorship, and as closely related as possible to the area of Linguistics (recommended requirement).

GRADUATION REQUIREMENTS:

In addition to meeting the general graduate graduation requirements of the Río Piedras Campus, you must meet the following specific requirements of the Master of Arts with a Specialty in Linguistics:

1. Complete 12 graduate credits of core courses of the Linguistics Graduate Program.

2. Complete 18 graduate credits of elective courses, of which a maximum of 9 credits may be from other graduate programs (with the approval of the PGL Graduate Committee).
3. Pass the Degree Exam
4. Complete a Thesis or Monographic Project

PROGRAM OF STUDY:

Program Requirements	Credits
Core Courses	12
LING 6020 Research Methods in Modern Linguistics	3
LING 6040 Phonology	3
LING 6050 Morphosyntax	3
LING 6060 Semantic Theory	3
Elective Courses	18
LING 6920 General Degree Examination	0
LING 6895 Master's Degree Thesis	0
LING 6896 Continuation of Thesis (optional)	0
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

LING 6020 Research Methods in Modern Linguistics

Three credits. Three hours of lecture a week.

Seminar on the most recent research methods in synchronic linguistics, including bibliographic sources and auxiliary instruments. Face-to-face, hybrid and online course.

LING 6040 Phonology

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the program Presentation and analysis of the most important phonological theories of the twentieth century. Face-to-face, hybrid and online course.

LING 6050 Morphosyntax

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the program Theoretical and practical presentation of the new guidelines in the analysis of morphological and sentence structures.

LING 6060 Semantic Theory

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the program Critical Analysis of Current Postulates on Theories of Meaning and Semantic Structure. Face-to-face, hybrid and online course.

LING 6920 General Degree Examination

Zero credits.

Preparation for the subject exam. Face-to-face, hybrid and online course.

LING 6895 Thesis

No credit.

Prerequisite: Total credits required for the degree.

Methodologically grounded research of a topic presented in the form of a written dissertation.

LING 6896 Continuation of Thesis

No credit.

Methodologically grounded research of a topic presented in the form of a written dissertation.

OTHER COURSE DESCRIPTIONS:**LING 6000 Articulatory Phonetics**

Three credits. Three hours of lecture and six hours of laboratory time per week.

Discrimination, production and transcription of the sounds of natural languages, essential skills for phonology research.

LING 6001 Theory and Practice of Contemporary Linguistics

The principles of linguistic analysis are studied in order to develop basic theory and research skills in this discipline. The sub-disciplines of linguistics are introduced. Likewise, students identify units of human language at the phonetic-phonological, morphosyntactic, lexical-semantic and pragmatic levels; and propose a research phenomenon. This course is offered in face-to-face, hybrid, and online modalities.

LING 6005 Lexicon and Semantics of Spanish

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

Study of the theoretical foundations of semantics, taking into account their application to language teaching. Identification and analysis of the meaning of the linguistic units that we call word, sentence and utterance. Relationships between lexicology, lexicography and semantics.

LING 6008 Spanish in the United States: Grammars in Contact

Three credits. Three hours of lecture a week.

Prerequisite: Graduate students.

Presentation of the relevant theoretical and methodological points related to the problems of grammars in contact, according to the latest research on the varieties of Puerto Rican and Mexican Spanish in the United States.

LING 6010 General Linguistics

Three credits. Three hours of lecture a week.

Prerequisite: Permission of the Director Study of outstanding aspects in the history of linguistics and examination of ideological contents and working methods in each of the schools of contemporary linguistics.

LING 6015 Text Production: Towards Communicative Competence

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

Study of the communicative strategies used in the production of messages, with intense and systematic practice in computer support. The exercises are aimed at developing the skills necessary for a good command of the language, with the systematic practice of synthesis and analysis operations. Detailed discussion of acceptable and grammatical alternatives in the cohesion of discourse.

LING 6030 Instrumental Phonetics

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Synchronous study of language and laboratory techniques.

LING 6070 Hispanic Caribbean Dialectology

Three credits. Three hours of lecture a week.

Prerequisite: LING 6010 or ESPA 4011-4012 Study of Antillean Spanish at phonological, morphosyntactic and lexical-semantic levels. Sociological conditioning and problems of contacts and interference. Face-to-face, hybrid and online course.

LING 6080 Multilingualism: A Multidisciplinary Approach

Three credits. Three hours of seminar per week.

Prerequisites: LING 6010. Authorization from the course teacher and academic advisor.

Corequisites: Can be taken concurrently with any of the Level 6 courses. Study of multilingualism from a multidisciplinary perspective. Examination and evaluation of the theoretical approaches of various disciplines that affect the study of the phenomenon of individuals and societies that use more than one language of daily communication.

LING 6100 Generative Grammar

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director Review of the theoretical background that has led to a generative model of linguistic description. Presentation of the formalization elements and requirements of a generative grammar; the syntactic component and the phonological component. A critical account of the achievements and failures of generativism.

LING 6105 Eye Movement Recording in Linguistic Research

Three credits. Two hours of seminar and one hour of workshop per week.

This course examines a variety of linguistic studies that use the technique of *eye tracking* to investigate both listening comprehension and reading comprehension. In addition, a component of the course consists of a hands-on workshop on the use of *eye tracker* programs and equipment to conduct language experiments.

LING 6106 Toggle Codes

Three credits. Three hours of seminar per week.

Detailed study of code-switching, a linguistic phenomenon that consists of the use of two or more languages in the same portion of speech. Examination of the various theoretical approaches to the phenomenon and the methodologies used in research on this topic. Discussion of the evolution of the study of code alternation through the critical analysis of academic articles that have been fundamental to its development.

LING 6110 Language Planning

Three credits. Three hours of lecture a week.

Prerequisite: Director's Permission Introduction to the concepts of language planning, its realization in today's world, and its application to the specific case of Puerto Rico.

LING 6150 Applied Linguistics

Three credits. Seven and a half hours of lecture per week.

The purpose of the course is to present the tools necessary to analyse differences and similarities (phonological, syntactic and lexical) in different languages and to apply this knowledge to the teaching of foreign languages and the preparation of teaching materials.

LING 6170 General Dialectology

Three credits. Three hours of lecture a week.

Distinction between the synchronic and diachronic planes. A) Synchrony: The individual and the community of speakers; idiolect and dialect; linguistic problems in dialect identification; the diasystem criterion; language and norm at the individual and collective level; isoglosses and dialectal terms; diglossia and other sociolinguistic problems; vitality of the dialect; language and dialect. B) Diachrony: The geographical representation of dialectal phenomena; historical-comparative inferences; causes of dialectal, extralinguistic and intralinguistic differentiation; the diasystem from the diachronic point of view; Typology and dialectology.

LING 6190 Introduction to Sociolinguistics

Three credits. Seven and a half hours of lecture per week.

Study of language and society as correlative structures. Examination of the causes of differences in the linguistic habits of the members of a community, taking into consideration: the speaker and his/her linguistic awareness, his/her interlocutor, the environment, the synchrony and diachrony of the language and all those extralinguistic factors that may condition or determine the dialectal diversity within a social structure. Face-to-face, hybrid and online course.

LING 6210 Psycholinguistics

Three credits. Six and a half hours of lecture per week.

Prerequisite: Baccalaureate Current Approaches to Experimental and Developmental Psycholinguistics; Recent trends in neurolinguistics.

LING 6230 Ethnolinguistics

Three credits. Three hours of lecture a week.

General Principles of Ethnolinguistics, Critical Exposition of Whorf's Hypothesis, Culture, Worldview, and Language; linguistic universals and semantics.

LING 6270 Semiology

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Presentation of the main semiological currents from Saussure to the present. The course will focus particularly on clarifying the intersection of linguistics and semiology; Extension of its interdisciplinary scope to communication theory. Face-to-face, hybrid and online course.

LING 6290 Text Linguistics

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

LING 6010 Study of the Major Trends in Theory

contemporary text; its scope and limitations for the description of the discourses of the Face-to-face, hybrid and online course.

LING 6300 Introduction to Mathematical Linguistics

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the head of the linguistics department.

Study of the notions of mathematics and symbolic logic necessary for the formal analysis of natural languages.

LING 6340 Introduction to Computational Linguistics

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Electronic Equipment, Machine Language, and Linguistic Research. Possibilities and types of studies in computational linguistics. Practical exercises.

LING 6355 Linguistic Techniques for Text Editing

Linguistics techniques applied to the editing of informative and research texts based on the principles of effective written communication are studied. With emphasis on phonetic-phonological, morphosyntactic, lexical-semantic and pragmatic features, excerpts from presentations of research articles, *abstracts*, essays, monographs, pamphlets, reports, bulletins and other non-literary documents produced in the formal and semi-formal registers of Spanish are reviewed. This course is offered in face-to-face, hybrid, and online modalities.

LING 6370 Phonological Analysis

Three credits. Three hours of lecture a week.

Prerequisite: Graduate student Introduction to the theory and practice of generative phonology, including its *raison d'être*, origin, methodology, and its place in linguistic theory.

LING 6400 Metatheory

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the head of the Department of Linguistics Examination and analysis of the various ways in which linguistics has been conceptualized in terms of its place among the sciences.

LING 6500 Spanish Phonetics and Phonology

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Head of the Department of Linguistics Origin and development of phonetics as a discipline of language science from antiquity to the phonological school of Prague. Phonetics and phonology in the Hispanic world. Description of the phonetic and phonological system of the Spanish language. Transcription. Acoustic phonetics of Spanish. Analysis of Hispanic acoustic features in spectrograms.

LING 6520 Oral Language in the Folkloric Tradition of Puerto Rico

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director of the Department of Linguistics Study of the process of language transmission and its folkloric manifestations through the ages. Literary Genres and Expressions in the Oral Tradition. Techniques for the research and compilation

of orally transmitted linguistic-literary forms.

LING 6525 History of the Spanish Language in Puerto Rico

Three credits. Three hours of seminar per week.

Study of the history of Spanish in Puerto Rico. Analysis of the linguistic influences and cultural roots of Puerto Rican speech from the Arawak Taino substratum to the cultured and semi-cultured linguistic uses of the twentieth century.

LING 6530 African Linguistic Influence in the Caribbean

Three credits. Three hours of lecture a week.

Prerequisite: Be a graduate student Study of African influences present in the phonology, morphology, syntax, and lexicon of the various languages of the Caribbean.

LING 6540 Spanish Morphosyntax

Three credits. Three hours of lecture a week.

Prerequisite: Admission to the graduate program in linguistics.

Presentation and analysis of the morphosyntactic structures of the Spanish language.

LING 6550 Seminar: Current Issues in Linguistics

Three credits. Three hours of lecture a week. It can be repeated with credit up to a maximum of twelve credits.

Prerequisite: Permission from the lecturer Seminar with variable topic in linguistics. The topic will be selected by the professor teaching the course and will be announced the previous semester. The course will not be given more than once on the same topic. Face-to-face, hybrid and online course.

LING 6551 Directed Research in Linguistics

A credit. One hour of seminar per week.

Prerequisite: LING 6010, 6020, 6040, 6050, 6060 and the elective course related to the topic of each seminar.

A research seminar in linguistics on a specific topic or problem, to which a certain theoretical model previously studied in a course previously approved by the student can be applied.

LING 6590 Seminar in Historical Linguistics

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director.

Analysis of change according to neogrammar, structuralist and transformational-generative models. Diachronic morphology, phonology and syntax. Lexical change and social motivation of linguistic change.

LING 6595 Brain and Language: A Critical Analysis of Current Literature

Three credits. Three hours of seminar per week.

Study of the neural bases of natural human language by current literature. Critical Assessment of the Relevance of Published Neuroscience Research in General Language Understanding, Linguistic Structure, Development, Learning y language processing and pathological states.

LING 6600 Introduction to the Cognitive Neuroscience of Language

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

Prerequisite: LING 6010 or equivalent.

Objective: Processing and use of language. Developmental, Acquired, and neurological status. The course includes, where possible, experience collected in data analysis.

LING 6995 Interdisciplinary Approaches to Linguistics

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

Theoretical and practical seminar of credits and variable topics on the convergences between linguistics and other disciplines. Theoretical and practical aspects will be covered aimed at exploring the application of language in different areas of knowledge. Face-to-face, hybrid and online course.



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Coordinator: Dr. Marla Pagán Mattos

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Portal: http://humanidades.uprrp.edu/graduados/?page_id=448

DEGREE: Master of Arts with a Specialty in Comparative Literature

TEACHERS:

Elidio La Torre Lagares, PhD, University of Puerto Rico, Río Piedras, 1996, Comparative Literature, Caribbean and Latin American Literature, Crime Novels, Narrative and Art in Transmedia Culture, Cinema, Production and Editing.

Noel Luna, PhD., Princeton University, 2003, Professor. Classical literature, modern and contemporary poetry, literary theory.

Marla Pagán Mattos , PhD, University of Pennsylvania, 2012, Assistant Professor. Medieval and early modern literature, sound culture, the history and materiality of the book, literary theory.

Marian E. Polhill, PhD, Cornell University, 2002, Professor. Medieval and pre-Renaissance literature, medieval scientific discourses, bestiaries.

Eduardo (Lalo) Rodríguez , M.A., Université de Paris, 1987, Associate Professor. Department of Comparative Literature, Caribbean, Latin American, Modern and Contemporary Literature. Writer.

COLLABORATING TEACHING STAFF:

Víctor Castro, PhD, Friedrich-Alexander Universität Erlangen-Nürnberg, 1992, Professor, Department of Foreign Languages and Department of Comparative Literature. German Language and Literature, Eighteenth and Nineteenth Centuries, Classical Literature.

Juan Gelpí, PhD, Princeton University, 1983, Professor, Department of Hispanic Studies. Literary Theory, Latin American and Puerto Rican Literature, Chilean Literature.

Luce López Baralt, PhD, Harvard University, 1974, Professor Emeritus, Department of Hispanic Studies. Aljamiada literature, literature of the Golden Age, mysticism and poetry.

Dorian Lugo Beltrán, PhD, University of Puerto Rico, Río Piedras, 2007, Professor of the Program of Interdisciplinary Studies, Cultural Management and Department of Comparative Literature. Film Theory, Spanish Golden Age Literature, Cultural Studies.

Juan Otero, Ph.D., Harvard University, 1998, Professor, Hispanic Studies. Latin American and Caribbean Literature, Cultural Studies.

Teresa Peña Jordán, University of Pittsburgh, 2005, Adjunct Professor, Department of Comparative Literature, Women's and Gender Studies Program. Latin American literature of the 19th, 20th and 21st centuries, Cuba and Puerto Rico, women's studies, politics, transatlantic studies, theory of the body and psychoanalysis, Latin American literature.

Antoine Philippe, PhD, University of California at Irvine, 2002, Professor, Department of Foreign Languages and Department of Comparative Literature. Contemporary French Literature, Culture and Cinema; literary theory; comparative literature; linguistics.

Emmanuel Ramírez Nieves, PhD., Harvard University, 2015. Hispanic Literatures and Cultures of the Middle Ages and Early Modernity; literature and religion; Humour and literature

Julio Ramos, PhD, Princeton University, 1985, Professor Emeritus of Spanish and Portuguese, UC Berkeley. Latin American Literature, Contemporary Literature.

Rubén Ríos Ávila, PhD, Cornell University, 1983, Professor, NYU. Modern and contemporary literature, psychoanalysis, cinema and literature, baroque and neo-baroque.

Ada M. Vilar, DML, Middlebury College, Retired Professor in the Department of Foreign Languages and the Department of Comparative Literature French literature, literary theory, narratology.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

In addition to meeting the general admission requirements for graduate studies at the Río Piedras Campus, applicants must have the following:

1. Baccalaureate with a major in comparative literature or its equivalent, in liberal arts or in other concentrations. Candidates who have not met certain requirements, as assessed by the Department's Graduate Committee, may be classified as transient students as long as they meet them.

2. Proficiency in a third language for research purposes. Applicants who do not meet this requirement will have to start doing so during their first semester in the Program.
3. Two letters of recommendation.
4. A three-page essay. You will be provided with an essay on the discipline of comparative literature with guiding questions for you to analyze and critique.

GRADUATION REQUIREMENTS:

Candidates for the master's degree must meet all graduation requirements of the Rio Piedras Campus. In addition, they must have:

1. A minimum of 12 credits in graduate courses in comparative literature.
2. Pass the LITE 6007 course, Theory and Research Seminar.
3. A maximum of 9 credits in graduate courses in Hispanic Studies, English, History, Philosophy, Linguistics or related fields, duly approved by the Graduate Program.
4. A maximum of 9 credits taken at other institutions of higher education, subject to the approval of the Graduate Committee.
5. A maximum of 6 credits in independent study courses, approved according to the rules of the Graduate Program.
6. Meet the requirement for a third language.
7. Present and defend their Research or Creation Project in Comparative Literature before an Examination Committee composed of the thesis supervisor and two readers.

PROGRAM OF STUDY:

Program Requirements	Credits
Comparative Literature Courses	18
LITE 6007, Seminar on Theory and Research	3
Courses in Hispanic Studies, English, Linguistics, or related fields	9
LITE 6900, Degree Examination	0
LITE 6895, Thesis Proposal	0
LITE 6896, Thesis	3
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

The Comparative Literature Graduate Program offers some of its courses at the 5000 level, which can be validated as graduate courses. For titles and descriptions, please consult the Campus Undergraduate Courses Catalog.

LITE 6005 Literature and Deconstruction

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

This course examines the concept of literature from a deconstructionist perspective, one of the most relevant theoretical currents of the twentieth century. It includes the study of Jacques Derrida's texts that present some of the most important notions of deconstruction in order to know and analyze what conventions make literary discourse possible.

LITE 6007 Seminar on Theory and Research in Comparative Literature

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

This seminar relates the student to the historical development and fundamental debates of comparatism, emphasizing its basic theoretical currents. The seminar prepares the student in the basic methodology of literary research. Face-to-face, hybrid and online course.

LITE 6008 The Baroque and Psychoanalysis

Three credits. Three hours of lecture, discussion and seminar per week. Prerequisites: for graduate students of the master's degree in Comparative Literature. Comparison of the modern elements of the Baroque as a style and psychoanalysis as a philosophical discourse, focusing on the themes of disillusionment, hermeticism and formalism. Texts by Lacan, Deleuze, Góngora, Sor Juana, Gracián, Lezama Lima, Sarduy, Arenas and Perlongher will be read.

LITE 6019 / ESHI 6019 The European "Novella" and Legal Discourse

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

Prerequisite: LITE 3011 Modern Literature, LITE 3012 Contemporary Literature, and LITE 3101 Literary Theory The study of the relations between legal discourse and the European "novella" and the analysis of the relations between the "novella" and the "fictitious case", paying attention to the way in which individual authors appropriate this discourse of classical antiquity for the purpose of validating and/or questioning their respective legal systems and the hierarchies that these Support.

LITE 6021 / ENGLISH 6021 Myths and Monsters (Premodern)

Three credits. Three hours of seminar per week.

The course will examine literary representations of myths and monsters from a variety of geographical and temporal contexts, including, for example, a medieval Anglo-Saxon, European, pre-Columbian, Caribbean, and/or global context, from a comparative perspective. Through the theoretical readings, we will reflect on concepts such as monsters, heroes, authority, ethics and war.

LITE 6022 / ESHI 6022 Race, Music, Literature in the Caribbean

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

Interdisciplinary study of racial representations in Caribbean music and literature. Borders of empires in Europe and the Americas, the Caribbean is a linguistically and racially diverse cultural area, connected by transits, flows, and circuits of individuals, goods, and cultures. Starting from slavery and miscegenation as shared historical experiences, the course examines cultural and racial definitions and representations of the Caribbean as a region and some of its particular manifestations in music and literature.

LITE 6025 The Origins of Literary Theory

Three credits. Three hours of lecture a week.

Prerequisites: LITE 3011 and LITE 3012 Study of literary theory from Greco-Roman culture to the Renaissance and Baroque. Study of the poetics of the Renaissance (Cinthio, Castelvetro, Robortello, Tasso, etc.) Culminating with the poetics of the Baroque (Lope de Vega, Gracián). Analysis of how, since its origins, literary theory has been concerned with defining the constants of its object of study (literature in general) and its specific manifestations, especially from the construction of the concept of "literary genres". Special attention is paid to the tension caused by the existence of theoretical models that do not coincide with literary practices that, however, try to legitimize themselves based on the prestige of this discourse.

LITE 6396 / ESHI 6396 The Aljamiada Literature of the Spanish Moriscos

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma or special permit The clandestine (and often unpublished) literature of the Spanish Moors of the 16th century, written in Spanish with Arabic characters, is explored. This Mestizo literature (Castilian and Arabic in the middle of the Golden Age) is made up of legends, poems, prognostications, religious treatises and passionate testimonies in which the persecuted caste meditates its gradual extinction as a people.

LITE 6401 Goethe's Faust

Three credits.

Prerequisite: Have a Bachelor's Degree in Research on the Legend of Faust and its Different Manifestations in World Literature from the Sixteenth Century to the Present.

LITE 6407 The Myth of Italy in Modern Literature

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate or permission of the Headmaster The analysis based on works and texts of the fascination that filled Italy from the days of Goethe and Winkelmann to the twentieth century, passing through the English and French Romantics, etc.

LITE 6411 Dante: The Divine Comedy and the Tradition of the Journeys from Beyond the Grave

No credits.

Analysis of "The Divine Comedy", song by song, according to the tradition that inspires it.

LITE 6412 Dante: The Divine Comedy and the Tradition of the Journeys from Beyond the Grave

No credits.

Analysis of "The Divine Comedy", song by song, according to the tradition that inspires it.

LITE 6415 Man and Nature in Modern Literature

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate and its equivalent Attitudes towards nature as reflected in literature from the Middle Ages to the present, with emphasis on the last two centuries.

LITE 6417 Modern Drama: Structures

Three credits.

Prerequisite: Have a baccalaureate degree or permission from the Director The roots and causes of the radical innovation that has occurred in dramatic production in recent decades will be investigated. The intimate causes, observable since the beginning of the century, will be analysed, such as, for example, in the works of Ibsen, Maeterlinck, Strindberg, etc., which will lead to the break with the traditional form and channel the new aesthetics of the very diverse forms used by authors such as Beckett, Ionesco, Genet, Pinter, Weiss, Wesker, etc.

LITE 6418 Modern Drama: Structures

Three credits.

Prerequisite: Have a high school diploma or special permit.

The roots and causes of the radical innovation that has occurred in dramatic production in recent decades will be investigated. The intimate causes, observable since the beginning of the century, will be analysed, such as, for example, in the works of Ibsen, Maeterlinck, Strindberg, etc., which will lead to the break with the traditional form and channel the new aesthetics of the very diverse forms used by authors such as Beckett, Ionesco, Genet, Pinter, Weiss, Wesker, etc.

LITE 6419 Don Juan: Dramatic Myth

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate or permission from the Director of the Faculty of Mathematics and Mathematics of the Blessed Virgin Mary. Research of the origins and multiple and complex variants of the theme throughout Europe, from the sources of Tirso de Molina to the present day.

LITE 6420 Don Juan: Dramatic Myth

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma or special permit.

Investigation of the origins and multiple and complex variants of the theme throughout Europe, from the sources of Tirso de Molina to the present day.

LITE 6421 Theory of the Novel

Three credits. Three hours of lecture a week.

Prerequisite: Have Bachelor's Degree in Novel-Based Studies, Novelist Theory, and Novel Theorists.

LITE 6422 Theory of the Novel

Three credits. Three hours of lecture a week.

Prerequisite: Have Bachelor's Degree in Novel-Based Studies, Novelist Theory, and Novel Theorists.

LITE 6425 Woman: Myth and Reality

Three credits. Three hours of lecture a week.

Prerequisite: A bachelor's degree or permission from the Principal A study of women as a subject and of women as authors of world literature across time and diverse cultures.

LITE 6426 Women: Myth and Reality

Three credits. Three hours of lecture a week.

Prerequisite: A bachelor's degree or permission from the Principal A study of women as a subject and of women as authors of world literature across time and diverse cultures.

LITE 6427 The Novel in the Twentieth Century

Three credits. Three hours of lecture a week.

An investigation of the various dimensions of the twentieth-century novel, reflected in the works of Joyce, Kafka, Faulkner, Robbe Grillet, Bellow, Solzhenitzyn, García Márquez.

Face-to-face, hybrid and online course.

LITE 6428 The Novel in the Twentieth Century

Three credits. Three hours of lecture a week.

An investigation of the various dimensions of the twentieth-century novel, reflected in the works of Joyce, Kafka, Faulkner, Robbe Grillet, Bellow, Solzhenitzyn, García Márquez.

LITE 6429 Literature in the Renaissance

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate or permission of the Principal An advanced course in certain literary genres, changing from year to year.

LITE 6430 Literature in the Renaissance

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate or permission of the Principal An advanced course in certain literary genres, changing from year to year.

LITE 6431 Marcel Proust

Three credits. Three hours of lecture a week.

Analytical and thematic study of the "Search for Lost Time" in its entirety, particularly in its dimension of poetics of memory and sensation.

LITE 6435 Fundamentals of Romanticism

Three credits.

Prerequisite: Have a bachelor's degree or special permit Research on the aesthetic, historical, political, social and philosophical foundations of romantic literature.

LITE 6436 Fundamentals of Romanticism

Three credits. It can be repeated up to a maximum of six credits.

Prerequisite: Have a baccalaureate or special permit and LITE 6435 Research on the aesthetic, historical, political, social and philosophical foundations of Romantic literature.

LITE 6437 Classical Myths in Modern Drama

Three credits. Three hours of lecture a week.

The tragic destinies of classical antiquity objectified in Attic tragedy will gain a new perspective through comparative analysis. Through the variants offered by the multiple dramatic adaptations from the Renaissance to the present day, the constant of his character will be investigated. This concentric mode will be studied in works in which paradigmatic couples are presented, such as: Orpheus-Eurydice, Amphitryon-Alcmene, heroines such as Antigone and Iphigenia or siblings such as Orestes and Electra.

LITE 6439 Homer and Virgil

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the Director Research on the aesthetic, historical, cultural and mythological content of the three epic poems.

LITE 6441 Homer, Dante, Joyce

Three credits. Three hours of lecture a week.

Prerequisite: Have a Baccalaureate or permission from the Director of the Divine Comedy and the "Odyssey" and "Ulysses" taking into consideration also Virgil, Shakespeare, Ibsen and others.

LITE 6445 James, Woolf, Proust

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate or permission from the Director Study and comparison of the techniques of James, Woolf and Proust and the contribution of these techniques to the novel. Research of aspects of his works and the judgments of his critics.

LITE 6447 The Essay as a Literary Genre

Three credits. Three hours of lecture a week.

Prerequisite: Have a Baccalaureate or permission from the Director Analysis of the essay as a particular type of literary composition. Some of its major historical variants will be considered, beginning with its modern origins in Montaigne and Bacon; Various classifications of their subjects and stylistic resources will be examined. Face-to-face, hybrid and online course.

LITE 6448 Epic Poem and the Novel in the Renaissance

Three credits. Three hours of lecture a week.

Prerequisite: Have a Baccalaureate or permission from the Director Study of the development of the novel and epic poem in the Renaissance through works by Boccaccio, Franco Sacchetti, Pulci, Boiardo, Ariosto, Sannazzaro, Bandello and Tasso and their influence on other countries. The theory of the epic poem and the procedures in narrative will be studied.

LITE 6449 Epic Poem and the Novel in the Renaissance

Three credits. Three hours of lecture a week.

Prerequisite: Have a Baccalaureate or permission from the Director Study of the development of the novel and epic poem in the Renaissance through works by Boccaccio, Franco Sacchetti, Pulci, Boiardo, Ariosto, Sannazzaro, Bandello and Tasso and their influence on other countries. The theory of the epic poem and the procedures in narrative will be studied.

LITE 6450 Medieval Hebrew-Spanish Poetry

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma or permission from the Principal.

The poetic production in the Hebrew language of the medieval Spanish Jews who had a "renaissance" on peninsular soil and who gave leading figures such as Ibn Nagrella, Ibn Gabirol, Mose Ibn Ezra will be studied. As far as possible, this poetry will be studied in comparison with the Spanish poetry that was contemporary or later.

LITE 6455 Medieval Arabic-Spanish Poetry

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate or special permit The brilliant poetic production in classical Arabic of the medieval Spanish Muslims who gave rise to leading figures such as Ibn Al-'arabi, Avempace, Al-Mutamid of Seville will be studied. As far as possible, this poetry will be studied in comparison with the Spanish poetry that was contemporary or later.

LITE 6458 Literature of Existentialism

Three credits. Three hours of lecture a week.

Prerequisite: Have a bachelor's degree or special permit A study of existentialism, which considers the ideas of Kierkegaard, and its influence on literary works by Unamuno, Camus, Sartre, and others.

LITE 6459 African Studies: The Drama

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate or special permit Critical Research on African Drama and its Relationship with Other Literatures.

LITE 6465 Narrative Studies: Nineteenth Century

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma or special permit An in-depth study of the outstanding figures of nineteenth-century narrative, their immediate circles, and the literary and socio-political currents that affect their works. Face-to-face, hybrid and online course.

LITE 6466 Narrative Studies: Nineteenth Century

Three credits. Three hours of lecture a week.

Prerequisite: Have a high school diploma or special permit An in-depth study of the outstanding figures of nineteenth-century narrative, their immediate circles, and the literary and socio-political currents that affect their works.

LITE 6467 Kafka and Borges

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate degree or special permit An exam of Kafka's "The Castle" and some short stories by Borges. Investigation of the formal relations between the two authors.

LITE 6468 The Epic

Three credits. Three hours of lecture a week. Prerequisite: Have a baccalaureate or special permit A study of the epic from Gilgamesh to The Lusiads.

LITE 6469 The Epic

Three credits. Three hours of lecture a week. Prerequisite: Have a baccalaureate or special permit A study of the epic from Gilgamesh to The Lusiads.

LITE 6470 Contemporary Literary Criticism

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate or special permit Examination of the basic assumptions of literary theory and its relevance in literary and contemporary studies. A course of variable nature that can be taken up to three times, as long as it is on different topics, with the consent of the academic advisor.

LITE 6475 Contemporary Literary Criticism

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate or special permit Examination of the basic assumptions of literary theory and its relevance in contemporary literary studies. A course of a variable nature that can be taken up to three times (9 credits), as long as it is on different topics, with the consent of the academic advisor.

LITE 6478 The Contemporary Poetry of the West

Three credits. Three hours of lecture a week. It can be repeated up to a maximum of six credits.

Prerequisite: Have a baccalaureate degree or special permission Trajectory and development of contemporary poetry in the West through the study of its main creators starting with Baudelaire.

LITE 6479 The Contemporary Poetry of the West

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate or special permit and LITE 6478 Trajectory and development of contemporary poetry in the West through the study of its main creators starting with Baudelaire.

LITE 6480 Theory of Drama

Three credits. Three hours of lecture a week.

An in-depth study of the characteristics of the tragic vision and the comic vision in Western dramatic literature.

LITE 6485 Theory of Drama

Three credits. Three hours of lecture a week.

An in-depth study of the characteristics of tragic vision and comic vision in Western dramatic literature.

LITE 6486 /INGL 6486 Caribbean Theory and Literature

Three credits. Three hours of seminar per week.

This course will examine the literary and cultural theories of the Caribbean in relation to the literary texts of the region. It will explore the interactions between Caribbean cultural theory (seen from a variety of materialist and psychosocial perspectives) and literary poetics. An attempt will be made to theorize both the specificity of the Caribbean and the cultural space as well as its interrelations with global movements.

LITE 6490 Africa in the West Indies

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate or special permit Critical research on the influences and relationships between African culture and the literature of the West Indies.

LITE 6497 Comparative Mythology

Three credits. Three hours of lecture a week.

Prerequisite: Have a baccalaureate or special permit The Science of Mythology presented within the framework of comparative literature.

LITE 6499 Caribbean Theatre: Theatrical Works and Practices of the Greater and Lesser Antilles

Three credits. Three hours of lecture a week.

Prerequisite: Graduate or third- or fourth-year student.

Comparative study of current theatre in French, Spanish, English and/or the Creole or nation languages of the Caribbean islands, with special emphasis on the critical investigation of a specifically Antillean theatrical aesthetic shared by the region despite linguistic, cultural and political differences.

LITE 6505 Folkloric Tradition, Visual Myth and Native Literature in the Andean World

Three credits. Three hours of lecture a week.

Native Andean cultural semiotics through the study of its oral, visual and written expressions.

LITE 6506 Thor and Other Beheaders: Medieval Scandinavian Literature

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

Prerequisites: LITE 3011, LITE 3012, LITE 3101 In this monographic course, you will study medieval Scandinavian literature in its cultural, historical, philosophical and scientific context. Mythological texts, the sagas of the Icelanders, the poetry of the skalds and the Scandinavian poetic literary theory of the Middle Ages will be analysed. The course examines the relationships between Scandinavian literature, particularly Icelandic literature, family genealogies and the construction of an Icelandic national consciousness. Face-to-face, hybrid and online course.

LITE 6515 Literature, Science and Culture in the Middle Ages

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

Prerequisites: LITE 3011- Modern Literature, LITE 3012 – Contemporary Literature, LITE 3101- Literary Theory.

This monographic course explores the relationships between the fictional, scientific and cultural discourses of the Middle Ages. It is interesting to examine the way in which scientific discourses are used and transformed in order to analyse, on the one hand, how medieval literature modifies, questions and/or transcends the knowledge schemes of its time, and what its cultural consequences are. Face-to-face, hybrid and online course.

LITE 6525 Metatheatre: Five Centuries of Self-Conscious Theatre

Three credits. Three hours of seminar per week.

Monographic course in which the theoretical and exemplary texts that define metatheatre (Abe/Richenberger) and its techniques (Honrby) are addressed. Once the theoretical framework has been established and some literary models have been analyzed, the student will select a minimum of two texts to develop their research by comparing authors, dramatic

genres, historical periods, or tracing a self-conscious theatre technique (drama within drama, ritual within drama, performance of one character from another, literary and historical allusions, self-reference) in a set of texts from different periods. Style, Nationality or theatrical genre.

LITE 6550 Modernity, Literature and the City

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

This course explores the relationships between modernity, the city and its cultural representations, analysing its literature from the nineteenth century to the present in Europe and America. The central topics of the course are the city as an organizer of new practices and subjectivities and its representations from the panoptic point of view, *that of the flaneur* and that of the nomad. Face-to-face, hybrid and online course.

LITE 6560 The Elizabethan Theatre and the Spanish Golden Age Theatre

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 The study of the discursive practices of the English Elizabethan Theatre and the Spanish Golden Age Theatre in order to establish the points of contact and particularities of both traditions.

LITE 6586 St. John of the Cross: Western and Semitic Tradition

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

Study of the mystical work of St. John of the Cross, including his poetry and prose, in the light of the intertextual dialogue that the poet maintains with both Western and Semitic mystical traditions (Hebrew and Arabic).

LITE 6665 Jorge Luis Borges and his Theory of Literature

Three credits. Three hours of lecture a week.

Prerequisite: Be a master's or doctoral student Examination of Borges' work and his theory of language and literary phenomenon.

LITE 6666 Modernism and Modernity

Three credits. Three hours of lecture per week Prerequisite: Director's permission The presence of urban sensibility in the poetics of three representatives of Modernism: Martí, Darío and Lugones.

LITE 6667 Modernity and Avant-garde

Three credits. Three hours of lecture a week.

Prerequisite: LITE 3101 An exploration of the relationship between the processes of social and aesthetic modernization at the end of the century and the first decades of the twentieth century.

LITE 6675 The Latin Erotic Elegy

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

Monographic course that explores the Latin erotic elegy, as proposed by Propertius, Tibullus and Ovid, as a prototype of ancient lyric and its flowering in the age of Augustus. Its background in Greek lyric poetry and early Latin poetry is studied, as well as its proposals, its themes, its resources, its invention of the poetic subject and interiority, its treatment of the erotic body vis à vis the emblematic body of epic poetry and the sacrificial body of tragedy. In addition, the imaginary of the genre that sustains it, its socio-cultural environment and its audience, among other aspects, as well as its role in the development of later poetic proposals, from the Middle Ages to the present day.

LITE 6895 Master's Thesis or Other Degree Conclusion Project

No credit.

Prerequisite: 24 credits passed Corerequisite: LITE6900 Degree exam Preparation, preparation and approval of the master's thesis or other degree conclusion project under the direction of the Thesis Director or research project.

LITE 6896 Continuation of Thesis or Other Degree Conclusion Project

No credit.

Prerequisite: LITE 6895 Continuation of the preparation (research and writing) of the master's thesis or other degree conclusion project under the supervision of its supervisor and/or committee.

LITE 6900 Degree Examination

Credit: 0

LITE 6905 Directed Research in Comparative Literature I

Three credits. Three hours of independent study per week.

Prerequisites: 12 graduate credits and professor's permission Directed research in comparative literature on topics or problems of individual interest. The course can be taken a maximum of two times.

LITE 6906 Directed Research in Comparative Literature II

Three credits. Three hours of independent study per week.

Prerequisites: 12 graduate credits and professor's permission Directed research in comparative literature on topics or problems of individual interest. The course can be taken a maximum of two times.

LITE 6991 Body, Memory and Writing

From one to six credits.

The body has been the inscribed surface of memory and its processes. Healthy bodies, sick bodies, sexed bodies, bodies marked by a traumatic experience such as war, exile, monstrosity or madness; Human and inhuman bodies are shown as stories subject to be textually analyzed and related to their cultural and historical contexts.

LITE 6995 Caribbean Poetics and Debates: Comparative Approaches

From one to six credits. Two hours of lecture and four hours of discussion per week. Course that presents and analyzes different literary poetics in debates, texts and authors representative of the Caribbean from a comparative and interdisciplinary perspective. Taking into account the necessary historical and cultural contextualization, it seeks to highlight the uniqueness of a region that can no longer be studied in the conventional paradigms of race, ethnicity, language, and geography. It will include the Hispanic, French-speaking, Anglophone and Creole Caribbean, as well as the other Caribbean of its migrations and diasporas.

LITE 6996 Comparative Medieval Literature

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

The course will analyze medieval literature from a comparative perspective, analyzing texts originally written in different languages, from various geographical contexts and/or from



different discourses; or considering literature from a theoretical perspective.

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Assistant: Barbara M. Medina **Phone:** +1 (787) 764-0000 ext. 89776

Email: barbara.medina1@upr.edu **Portal:**

<https://pgt.uprrp.edu/>

DEGREE: Master of Arts with a specialization in Translation

TEACHERS:

Alejandro Álvarez Nieves, PhD, University of Salamanca, 2012; Assistant Professor. Theories of Translation, Literary Translation, Spanish Syntax, Writing and Style. alejandro.alvarez2@upr.edu

David A. Auerbach, PhD, City University of New York, 1993; Professor. Legal, commercial, museum and literary translation, text editing. david.auerbach@upr.edu

Luis A. García Nevares, PhD, University of Salamanca, 2016. Associate Professor. Computer tools for translation, scientific-technical translation, localization, accessibility. luis.garcianevaras@upr.edu

Aurora Lauzardo, PhD, Princeton University, 1990, Professor. Translation in the areas of literature, history, theatre and gastronomy. aurora.lauzardo1@upr.edu

Yvette Torres, MA, CT, University of Puerto Rico, 1977, Professor. Translation in the areas of economics, anthropology and history. yvette.torres1@upr.edu

Margaret Charlotte Ward, PhD, Harvard University, 1981, Professor. Semiotics, English Writing and Syntax, Poetic Theory, Medieval Philology. margaret.ward@upr.edu

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Master's Program Specific Requirements

1. Submit two letters of recommendation.
2. Submit an essay explaining your interest in pursuing graduate studies and your long-term career or research plans.
3. Take the aptitude test administered by the Program.

GRADUATION REQUIREMENTS:

Candidates must meet the general graduation requirements required by the Campus. They must also:

1. Pass 45 credits in graduate-level courses of the program of study.
2. Pass a degree exam.
3. Present and defend your thesis satisfactorily.

PROGRAM OF STUDY:

Program Requirements	Credits	
Core Courses		
TRAD 6451-6452 Spanish Superior Syntax I & II	6	
TRAD 6453-6454 Writing and Style I & II	6	
TRAD 6455 Contemporary Theories of Translation or equivalent course	3	
Total Core Courses		15
Practice Seminars		18
Elective Courses		
Directed Elective – English Seminar	3	
Directed Elective – English Syntax or Writing Seminar	3	
Free electives (any course at the 6000 level; Latin or Greek at the undergraduate level)	6	
Total Credits in Elective Courses		12

Program Requirements	Credits	
TRAD 6920 General Degree Exam		0
TRAD 6895 Master's Thesis		0
TRAD 6896 Continuation of Master's Thesis		0
Total Credits		45

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

TRAD 6451 Spanish Superior Syntax I

Three credits. Three hours of lecture a week.

Advanced course in Spanish syntax of a descriptive, historical and stylistic nature. It will consist of lectures and practical lessons. Face-to-face, hybrid and online course.

TRAD 6452 Spanish Superior Syntax II

Three credits. Three hours of lecture a week.

Second part of the advanced course of Spanish syntax of a descriptive, historical and stylistic nature. It will consist of lectures and practical lessons. This course will be offered face-to-face, hybrid, and online. This course will be offered face-to-face, hybrid, and online.

TRAD 6453 Writing and Style

Three credits. Three hours of lecture a week.

Theory and practice of writing. Study of the techniques and main problems posed by the drafting. Clarity and order in the construction of the sentence and the period. Precision in the use of language. Application of the ideoconstructive method. Face-to-face, hybrid and online course.

TRAD 6454 Writing and Style

Three credits. Three hours of lecture a week.

Second part of the theory and practice of writing. Studies of the techniques and main problems raised by the drafting. Clarity and order in the construction in the sentence and the period. Precision in the use of language. Application of the ideoconstructive method. This course will be offered face-to-face, hybrid, and online.

TRAD 6455 Contemporary Theories of Translation

Three credits. Three hours of lecture a week.

This course addresses the main theories of translation and their application to translation practice. This course will be offered face-to-face, hybrid, and online.

TRAD 6920 Degree Examination

Credits: 0

TRAD 6895 Master's Thesis

No credits.

Preparation of a translation project, carried out under the supervision of a lecturer advisor. The completed and duly examined thesis is the final requirement of the degree. Face-to-face, hybrid and online course.

TRAD 6896 Continuation of Thesis

No credits.

Prerequisite: Total credits requirements for the degree.

Preparation of a translation project, carried out under the supervision of a lecturer advisor. The completed and duly examined thesis is the final requirement of the degree. Face-to-face, hybrid and online course.

OTHER COURSE DESCRIPTIONS:**TRAD 6001 Location**

Three credits. Three hours of lecture a week.

Localization includes the translation and adaptation of electronic media such as websites, software, and video games to their respective linguistic and cultural markets. This advanced course explores the technical aspects of the field of localization and accessibility.

TRAD 6006 Computer Tools for the Translator

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

The course will provide an overview of the computer technologies in use and developing in the field of translation. The various tools and computer programs, work terminals for translators, online search tools, glossary programs and speech recognition systems available now and to be developed in the future, as well as the use of the Internet for translation research, will be studied. Students will be encouraged to use online glossaries and compile their own glossaries. The use of various MS Word applications as a tool for the professional translation, editing and presentation of translations will be promoted. A practical introduction to machine translation and computer-assisted translation will be provided. The course aims to offer

students with the basic tools needed to navigate a rapidly changing technological environment. Face-to-face, hybrid and online course.

TRAD 6007 Translation of Journalistic Texts of the Informative Genre

Three credits. Three hours of seminar per week.

Seminar on the translation of journalistic texts from the English language to Spanish. The basic concepts related to the functions of written journalism, the journalistic style and the different types of informative texts will be presented. News, reports and interviews will be translated on a variety of topics and in a variety of styles.

TRAD 6008 Translation of Journalistic Texts of the Interpretative Genre

Three credits. Three hours of seminar per week.

Seminar on the translation of informative and opinion journalistic texts. Basic concepts related to the functions of written journalism (print and digital), journalistic style, and the different types of journalistic texts will be discussed and applied. Students will translate news, news summaries, headlines, interviews, editorials, reviews, and opinion columns on a variety of topics and diverse styles. This course will be offered face-to-face, hybrid, and online.

TRAD 6010 Introduction to Community Interpreting

Three credits. Three hours of seminar per week.

This course exposes students to the profession and contexts of the community interpreter. It provides them with an overview of the requirements, standards, practices, and ethical dilemmas related to the profession in this type of interpreting. Community interpreting encompasses a wide range of types of interpreting that facilitates community services in educational, social, medical, and, in certain countries, legal or courtroom settings. The course focuses on professional aspects, standards and ethics, and on the preparation of the community interpreter. It also provides an opportunity for students to understand and practice some of the most commonly used interpreting modalities in this profession: sight translation and consecutive interpreting. This course will be offered in face-to-face, hybrid and online modalities.

TRAD 6011 Translation & Media

Three credits. Three hours of seminar per week.

Seminar on the practice of translating texts related to the changing world of the media: translations of journalistic texts (news, essays, opinion articles); online media (academic websites, blogs, etc.), advertising, and film and television (dubbing and subtitling). Discussions will also focus on the role of the translator/translation in the media from a theoretical and practical point of view, as well as how the media tend to view and use translation. Issues related to localization/transcreation and the industry, in particular those concerning language service providers, will also be discussed. Students will create professional presentations of their translations with relevant technological tools, paying particular attention to appropriate formatting and style. This course will be taught in face-to-face, online, and hybrid modalities.

TRAD 6012 Intermediate Translation Practice Seminar

Three credits. Three hours of seminar per week.

Intermediate translation practice seminar in which students will translate texts of various types and moderate difficulty. Students will learn to identify and solve the textual and extratextual difficulties presented by the different textual types and will learn to conduct the research that each one requires. This course will be offered in face-to-face, hybrid and online modalities.

TRAD 6013 Audiovisual Translation

Three credits. Three hours of seminar per week.

This practical course in audiovisual translation focuses on the accessibility of audiovisual products. Students will use subtitling tools as they develop key skills in translating and subtitling films for both a typical audience and deaf and hard of hearing populations. In addition, the course includes a practical component in audio description for the blind or visually impaired. This course will be offered in face-to-face, hybrid and online modalities.

TRAD 6014 Translation of Gastronomic Texts

Three credits. Three hours of seminar per week.

Translation of texts related to cooking and gastronomy: recipes, menus, food reviews, utensils, methods, ingredients, websites and gastronomy blogs. This course will be offered in face-to-face, hybrid and online modalities.

TRAD 6015 Translation of Literary Texts

Three credits. Three hours of seminar per week.

Literary Translation Practice Seminar. Students will perform translations of a variety of literary texts. Readings of critical and theoretical texts will be provided. Students will learn how to assess potential difficulties in the source text and how to work individually and as a team to solve them. The following core issues will be addressed: theoretical issues related to the notions of translatability, domestication and foreignization, as well as the translator's brand/presence; literary issues (poetry, narrative prose, essays, drama, etc.); literary, biographical, and historical context of the source text; stylistic and grammatical analysis of texts; figurative language translation; and aesthetic considerations. This course will be taught in face-to-face, online, and hybrid modalities.

TRAD 6021 Translation for Museums

Three credits. Three hours of seminar per week.

Translation practice seminar for museums and cultural institutions (with a focus on the translation of historical and visually oriented texts). Students will be introduced to the challenges of working in this field specifically in relation to the demands of the industry in terms of style, register, terminology, as well as related topics such as intertextuality and transcreation. A range of related issues will be discussed, such as the representation of images/concepts or objects as text, visualisation and visual literacy, intercultural translation,

translation and identity, and the translation of museum materials without the corresponding images. This course will be taught in face-to-face, online, and hybrid modalities.

TRAD 6100 English Translation Seminar

Three credits. Three hours of lecture a week.

Translation of journalistic and literary texts from Spanish to English. This course can be taken up to a maximum of six credits, as long as it is with different topics.

TRAD 6102 Introduction to Liaison and Consecutive Interpreting in Language B

Three credits. Three hours of seminar per week.

Practical introductory course on liaison and consecutive interpreting techniques in language B applied to medium-complexity discourses. Through interpreting exercises inside and outside the classroom, students will learn to solve problems related to this type of interpreting. Face-to-face, hybrid and online course.

TRAD 6105 Translation: Theories and Practice

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director The theoretical foundations of translation will be studied, as well as the different techniques for translating.

TRAD 6108 Spanish to English Business Translation Seminar

Three credits. Three hours of seminar per week.

Prerequisite: Authorization from the director or director Translation of business documents from Spanish to English, such as letters, memoranda, notices, announcements, invitations to auctions, and contracts.

TRAD 6185 Translation of French Newspapers and Magazines

Three credits. Three hours of lecture a week.

Prerequisite: Permission from the director Exercises of increasing difficulty with texts such as "Le monde", "Le figaro", etc. From the editorial, informative, commercial and financial, women and home, sports, theatre and film criticism, advertising sections.

TRAD 6200 Translation Review

Three credits. Three hours of lecture a week.

Prerequisite: Some practice in translation Analysis of published translations (indistinctly into English or Spanish) with special attention to the semantic and pragmatic levels of the language.

TRAD 6215 Scientific and Technical Translation

Three credits. Three hours of lecture a week.

Scientific and technical translation covers a wide range of topics such as medicine, industrial machinery, automotive, computer science, telecommunications, engineering and science. In this intermediate-advanced level practical course, you will work with instruction manuals, technical

reports, equipment specifications, system descriptions, user magazines and specialized articles on scientific and technical matters, among others. A variety of textual types will be worked on: informative texts, conferences, abstracts, patents, regulations, textbooks and other specialized texts related to science and technology. Face-to-face, hybrid and online course.

TRAD 6300 Literary Translation

Three credits. Three hours of lecture a week.

The course will be developed as a seminar in which the techniques of literary translation will be taught based on representative texts of the different genres, movements and literary periods of English and North American literature. The first semester will be dedicated to theatre and rehearsal. The second is poetry and narrative.

TRAD 6305 Great Authors and Translation

Three credits. Three hours of lecture a week.

Analysis of essays on the translation of writings by authors who have also excelled as translators. Studies of texts translated by great authors.

TRAD 6400 Spanish Translation Seminar

Three credits. Three hours of lecture a week.

Careful examination of possible translations and translation possibilities as a team.

TRAD 6407 French - Spanish Translation Seminar

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate in French or equivalent knowledge.

Exercises of increasing difficulty will be carried out using journalistic texts and good contemporary prose writers. At the same time, a succinct comparative study of the pertinent morphological, grammatical and syntactic aspects will be carried out.

TRAD 6408 French-Spanish Translation Seminar

Three credits. Three hours of lecture a week. Prerequisite: TRAD 6407 or teacher's permission Translation of French literature texts from the 17th century onwards.

TRAD 6409 Seminar: Translation Practice

Three credits.

Translation, translation critique, back-translation, mainly of texts related to the philosophy of language.

TRAD 6410 Seminar: Translation Practice

Three credits. Three hours of lecture a week.

Translation of literary texts from English to Spanish. The course may concentrate on specific themes or approaches within the broad topic of literary translation. The specific topic should be reflected in the subtitle of the course. The student may repeat it, no more than once, as long as the subtitles are different.

TRAD 6413 Seminar on Translation from French to English

Three credits. Three hours of seminar per week.

Prerequisites: Advanced French course or teacher's permission; good command of French and English Study of the techniques and theories of translation from French to English, using passages from representative works of different genres; It includes guidance on reference resources and criticism of some translations that have already been published.

TRAD 6430 Seminar: Independent Studies

Three credits. Three hours of lecture a week.

The course will be oriented to the practice of literary composition in English; However, students will be able to agree with the teacher on the areas in which they wish to carry out their translation practice.

TRAD 6435 Seminar: Independent Studies

Three credits.

Translation of general-purpose essays and reports using a computer. Emphasis on the pragmatic level of the language.

TRAD 6436 Seminar: Independent Studies

Three credits. Three hours of lecture a week.

Translation of essays and literary criticism. Emphasis on the semantic level of the language.

TRAD 6437 Seminar: Independent Studies

Three credits. Three hours of lecture a week.

Translation of logic and philosophy texts related to linguistic problems.

TRAD 6438 Comparative Analysis of Spanish and English Morphosyntax

Three credits. Conferences by arrangement.

Prerequisite: Permission from the teacher and/or principal.

The structure of the word and the sentence. Morphological and syntactic functional units. Descriptive theory and its application in exercises, both in Spanish and English. Both languages are used in the explanation of the course.

TRANSLATED 6457 English Syntax

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate preferably in English This course is aimed at students who are interested in understanding the syntactic structure of modern English. Although it is not tied to any specific grammatical model, the material presented allows us to understand the constituent structure. During the course, the student will become familiar with the key tools and concepts of syntactic analysis, such as the characteristics of different kinds of words and the use of tree diagrams. Face-to-face, hybrid and online course.

TRAD 6459 Principles of Semantics and Translation

Three credits. Three hours of lecture a week.

Prerequisites: grammar course or equivalent.

It is a basic introductory course to the field of semantics. The course aims to provide students with a series of knowledge from the studies of meaning so that they can apply it in the process of translation.

TRAD 6465 Internship in Translation

Three credits. One hundred and twenty semester hours of internship. In addition, the student will meet one hour every two weeks with the internship coordinator.

Prerequisites: TRAD 6451-6452 OR 6453-6454, twelve credits in practice seminars with an average of 3.50 Supervised practical experience in a work center, in which the student performs translation tasks. You may also carry out other tasks related to the profession such as writing, editing manuscripts or managing translation projects.

TRAD 6467 Introduction to Terminology

Three credits. Three hours of seminar.

Introductory course to research in terminology, oriented towards translation. Terminology related to different technical fields (such as environment, economics, computer science, law, art, etc.) will be worked on from various texts.

TRAD 6500 English to Spanish Translation Seminar

Three credits. Three hours of lecture a week.

Simple text translation exercises in which the theoretical principles of translation will be pointed out.

TRAD 6501 Medical Translation I

Three credits.

Prerequisite: Permission from the Program Director Translation of Medical Articles on Anatomy, Physiology, Pathology, and Surgical Procedures.

TRAD 6502 Medical Translation II

Three credits Prerequisite: TRAD 6501 Translation of Medical Articles on Diseases, Syndromes, Methods of Diagnosis and Treatment

TRAD 6505 Sight Translation

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

Prerequisite: Permission from the program director Translation of various texts on direct reading of the text. The student will do the translation by sight. Face-to-face, hybrid and online course.

TRAD 6526 English Writing Seminar

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

Prerequisite: TRAD 6453 - 6454 The purpose of this course is to provide the student with the techniques and skills necessary for the development of the written language.

TRAD 6535 Research for Translation

Three credits. Three hours of seminar per week.

Basic research methods for translation. Management of bibliographic and non-bibliographic sources.

TRAD 6600 Translation Seminar

Three credits. Three hours of lecture a week.

Translation of essays and similar texts into Spanish, under the supervision of the teacher, with class discussion of the different aspects and alternatives of the same. Face-to-face, hybrid and online course.

TRAD 6601 Business Translation from English to Spanish I

Three credits. Three hours of practice seminar per week.

This course will be a practical seminar on translating texts commonly used in business transactions. Possible texts to translate in this course are: letters, notices of meetings, corporate resolutions, bank resolutions, certificates of incorporation, share certificates, regulations, financial statements, continuing guarantees, company name contracts, bond/securities prospectuses, agreements against liens and any other text, newspaper or magazine article related to the commercial world. Commercial dictionaries, printed glossaries and Internet glossaries will be used, as well as reference works related to the subject studied.

TRAD 6602 Commercial Translation II

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

Prerequisite: TRAD 6601 or Director's Consent Translation of texts in the area of banking and industry.

TRAD 6610 Literary Translation

Three credits. Three hours of lecture a week.

The course will be developed as a seminar in which literary translation techniques will be taught based on representative texts of the different genres, movements and literary periods of English and North American literature. The first semester will be dedicated to theatre and rehearsal. The second is poetry and narrative.

TRAD 6620 Seminar: Translation Practice

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

Translation of various texts, with special attention to the correction of lexical equivalence.

TRAD 6640 English Translation Seminar

Three credits. Three hours of lecture a week.

Review of the stylistic and pragmatic aspects of the language into which it is translated (English).

TRAD 6650 Seminar: Independent Studies

Three credits. Three hours of lecture a week.

Prerequisite: ESHI 6600 – 6700 OR 6800-6900 Review of the stylistic and pragmatic aspects of the language into which it is translated (Spanish).

TRAD 6660 English Translation Seminar

Three credits. Three hours of lecture a week.

Prerequisite: Baccalaureate preferably in English.

Translation: revision of linguistic and stylistic property (to English). Face-to-face, hybrid and online course.

TRAD 6670 English Translation Seminar

Three credits. Three hours of lecture a week.

Translation: revision of linguistic and stylistic property (into Spanish).

TRAD 6680 English Translation Seminar

Three credits.

Translation from Spanish to English of essays and literary and specialized studies.

TRAD 6690 Legal Translation Problems

Three credits. Three hours of lecture a week.

An attempt will be made to familiarize the student with the specialized language in the different areas of Law, as well as with the terminological equivalences between English and Spanish in terms of legal activity.

TRAD 6700 Translation Seminar Three credits.

Three hours of lecture a week. Translation and critique of texts of normal complexity.

TRAD 6705 Legal Translation Problems

Three credits. Three hours of lecture a week.

Prerequisite: TRAD 6690 Students will continue to be familiar with the specialized language in the different areas of law, as well as with the terminological equivalences between English and Spanish as it relates to legal activity.

TRAD 6800 English Translation Seminar

Three credits. Three hours of lecture a week.

Careful examination of possible translations and translation possibilities as a team.

TRAD 6900 English Translation Seminar

Three credits. Three hours of lecture a week.

Translation of essays and articles of relative linguistic difficulty from Spanish to English.

TRAD 6990 New Trends and Practices in Translation

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

Theoretical and practical seminar on credit and variable topics on the most recent topics and trends in the study and practice of translation. The course will cover salient theoretical aspects of new trends in translation as an academic discipline and professional practice. It will include practical translation exercises. The student will be able to repeat the course with different topics up to a maximum of 9 credits. Face-to-face, hybrid and online course.

TRAD 6995 The Art of Translation: Its Fundamentals and Methods

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

Practical and theoretical seminar on topic and variable credit that explores how the field of translation and professional translators can respond appropriately to the opportunities and challenges of the contemporary field of translation. The course discusses specific resources for approaching translation as an art and craft, and in the process identifies how skills and knowledge that scholars recognize as useful to translators can be developed through innovations and variations in method. Examples of these resources include knowledge about trends in the local and international market, business management strategies, and research in the areas of culture and society. The method will be contextualized in terms of specific aspects within the translation and practical exercises. The student will be able to repeat the course with different topics up to a maximum of 6 credits. Face-to-face, hybrid and online course.



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DEGREE: **Master of Arts in Cultural Management and Administration**

AFFILIATIONS:

Member Center of the Latin American Council of Social Sciences (CLASCSO)

TEACHERS:

Dorian Lugo Bertrán, Ph.D, University of Puerto Rico, 2007, Professor. Film and Audiovisual Theory; Contemporary Art Theory; Literary theory (from the sixteenth to the twenty-first centuries); Gender Role Theory and Queerness; Cultural Studies; Applied Humanities.

Mareia Quintero Rivera, Ph.D., University of São Paulo, 2002, Professor. Cultural Studies; Cultural Policies; Music and Society; Cultural and Community Management.

Pedro Ángel Reina Pérez, Ph.D., Center for Advanced Studies of Puerto Rico and the Caribbean, 1998, Professor. Administration of Cultural Organizations; Cultural History.

ADMISSION REQUIREMENTS:

General Requirements of the Río Piedras Campus

<https://graduados.uprrp.edu/estudiantiles/admisiones-graduadas22/>

Specific Master's Program Requirements

Applicants must meet the following admission requirements:

1. Baccalaureate degree, or its equivalent, with a minimum academic average of 3.00
In exceptional cases, the Program may admit students with an index of less than 3.00
2. Comply with the established Composite Income Index. This index is obtained by assigning the value corresponding to the following requirements:
 1. Academic record (30%)
 2. Interviews (20%)
 3. Letters of recommendation (20%)
 4. Intention Trial (25%)
 5. Professional experience (5%)

3. Knowledge of Spanish and English
4. Knowledge in the use of the computer
5. A student may also be considered for conditional or transitory admission in accordance with the criteria established by the Faculty of Humanities in its General Regulations for Graduate Studies (2000)

GRADUATION REQUIREMENTS:

1. Pass a minimum of 30 credits in graduate courses, distributed as specified in the study program.
2. Complete a residency period of two consecutive semesters with a minimum load of six (6) credits per semester.
3. Maintain a retention rate of 3.00. This will also be the graduation rate.

PROGRAM OF STUDY:

Program of Study	Credits
Core Courses	15
GECU 6005 Fundamentals of Cultural Management	3
GECU 6006 Cultural Theories	3
GECU 6205 Strategic Management of Arts Enterprises and Organizations	3
GECU 6999 Internship in Cultural Management and Administration	3
GECU 6901- Proposal in Cultural Management and Administration	3
GECU 6901- Draft Conclusion	0
Recommended electives, depending on field of study	9
GECU 6007 Cooperativism and cultural self-management	3
GECU 6105 Introduction to Museology	3
GECU 6115 Modes of Production in the Performing Arts	3
GECU 6207 Cultural Policies	3
GECU 6209 Economy of Culture	3
GECU 6215 Independent Research Seminar	3
GECU 6305 Cultural Management and Community Development	3
GECU 6306 Cultural Entrepreneurship	3
GECU 6405 Archives in Action: Digital Mediations and Visual Art Networks	3
GECU 6985 Digital Humanities	3

Program of Study	Credits
GECU 6990 Topics in Literature and Cultural Management	1-6
GECU 6991 Topics in Law and Culture	1-6
GECU 6992 Cultural Studies Research Seminar	1-6
GECU 6993 Topics in Visual Arts Management	1-6
GECU 6994 Topics in Cultural Project Management	1-6
GECU 6995 Topics in Cultural Management and Communication	1-6
GECU 6996 Topics in Cultural Heritage Management	1-6
GECU 6997 Management Modes in the Field of Music	1-6
GECU 6998 Topics in Performance Studies	1-6
Free Electives Any graduate-level course from the Río Piedras Campus, the University of Puerto Rico System, or another institution with which there is an agreement.	6
Total Credits	30

COURSE DESCRIPTION:

The course descriptions below are the last ones registered in the Student Information System of the Registrar's Office of the Río Piedras Campus as of June 30, 2023 to be included in the 2022-2023 Graduate Catalog.

GECU 6005 Fundamentals of Cultural Management

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

It addresses the fundamentals of the field of cultural management at an international level and its growing importance as a professional and academic field, considering the significant role of culture in the social development of contemporary societies. The course promotes the reflective exercise of the cultural manager in his or her professional practice, through the study and research of concrete experiences of cultural management in Puerto Rico and abroad. This examination considers in a transversal way the links of cultural management with the development of the arts and with various areas of society such as education, economy, urban planning, citizen coexistence, tourism, among others. Finally, the particularities of the different lines of management are discussed by cultural administration, such as the visual arts, the performing arts, the music industry and the entertainment industry, the publishing industry, heritage management and popular arts, among others.

GECU 6006 Cultural Theories

Three credits. An hour and a half of lecture and an hour and a half of discussion. It addresses the various formulations of the concept of culture around which cultural debates have revolved from the 19th century to the present day. It examines the relationship between social transformations and reflection on culture, focusing on fundamental social processes in the European, Latin American and Puerto Rican contexts. The course explores various disciplinary approaches and perspectives that enrich cultural analysis, such as philosophical, literary, anthropological, sociological, and communicational approaches, among others.

GECU 6205 Strategic Organization of Cultural Organizations

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

Study of philosophical practice and ethics in the administration of artistic entities. It examines the different challenges faced by cultural institutions, whether for the purpose of and non-profit, including the legal and financial bases on which a cultural organization is created and operates, as well as its possible administrative structures. It also analyzes the formation of strategies and their consequent implementation, including aspects such as financing, relationship with government institutions, development of audiences, marketing and programming; and the administrative particularities of governmental and non-governmental entities related to culture. These topics will be discussed in the context of organizations dedicated to theater, music, dance, visual arts, or any other type of cultural expression.

GECU 6999 Internship in Cultural Management and Administration

One to three credits. Five hours of contact for every 40 hours of fieldwork. Supervised work experience in a public, private or community cultural institution, be it a museum, gallery, theater, cultural center, cultural cooperative, municipal office of culture, office of a promoter or cultural entrepreneur, among others. It is the laboratory where the student analyzes, applies, integrates and evaluates knowledge, values and principles of cultural management and administration. In this experience, the student is expected to develop operational skills, integrate research into the daily practice of cultural management and develop a reflection that, based on his/her theoretical knowledge, contributes to the implementation of projects, programs and procedures within the institution where the internship takes place. This combined learning process offers the student the opportunity to face situations and problems related to the management of cultural organizations in their many facets and dimensions.

GECU 6901 Proposal in Cultural Management and Administration

Three credits. Two and a half hours of research and half an hour of discussion.

Prerequisites: GECU 6005, 6006, 6205, and fifteen approved credits.

Preparation and preparation of a research proposal or management of a cultural project. It should include a statement of the topic, justification, objectives, literature review, methodological strategies, work plan and bibliography.

GECU 6902 Draft Conclusion

Three credits. Two and a half hours of research and half an hour of thesis.

Prerequisites: GECU 6005, 6006, 6215, 24 credits passed.

Preparation and presentation of a research in the format of a master's dissertation or cultural management project as its equivalent. The student will be exposed to a series of guides aimed at offering useful elements for their research or management and the final presentation of their work.

Description of Some Directed and Free Electives

In the courses section, under the Academic Program section of the MAMAC website, you can find out about the courses available per semester, including new curricular offerings and broader descriptions of them, as the new courses are available.

Recent courses are normally offered in the first instance under the umbrella of an "umbrella course", that is, courses that have already been codified, the function of which is to make them specific for a course to come. However, below is a list of regular courses:

GECU 6007 Cooperativism and Cultural Self-Management

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

Interdisciplinary course that explores the development of cultural enterprises outside the market economy and emphasizes cooperativism as an economic model of artistic self-management. The theoretical foundations for a critical analysis of cultural industries are addressed, providing basic notions of the cooperative model to promote its practice and development in the field of art and culture. Aimed at advanced students from various disciplines of the humanities, communication, business administration, among others. The aim is for students to be able to creatively apply the cooperative model and develop skills for the creation of cultural policies.

GECU 6105 Introduction to Museology

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

From an interdisciplinary perspective, she studies the historicity of the museum form, the way in which the act of collecting is defined, the significance given to objects, the relationship that is constructed between time, space and subjects, and the role assigned to curators and the public. Through the study of museums of various kinds, he explores the links of such aspects with concepts such as modernity, progress, national identity, heritage, tourism and the consumption of symbolic goods.

GECU 6115 Modes of Production in the Performing Arts

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

She studies the development of cultural projects in Puerto Rico with an emphasis on managers of the performing arts. In order to know their functions and needs, the profile of the different members of theatre, dance and performance will be defined: performers (actors, dancers, performance artists); playwrights, choreographers, designers of lights, sound, costumes, installations, independent producers, as well as institutions that sponsor the development of

these arts. The physical and conceptual spaces available for creation will be known. It will come into contact with existing forms of production in order to propose alternative forms.

GECU 6207 Cultural Policies

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

This course explores the field of cultural policies, understood as those interventions carried out by the State, civil institutions, private entities or community groups with the aim of satisfying the cultural needs of the population and promoting the development of their symbolic representations. From a historical perspective, various modalities that characterize the development of cultural policies are studied. On the other hand, it addresses the recent international debates that give culture a central role for social development. Processes of articulation of local, national and transnational cultural policies are examined based on the study of specific cases at the international level. In addition, the development of cultural policies in Puerto Rico is studied, promoting a reflection on contemporary challenges.

GECU 6209 Economics of Culture

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

Study of the economic dimension of culture, understood in its humanistic sense as artistic practices. Concepts such as commodity, capital, utility, market, production and consumption are examined, considering their application to the cultural realm. Economic policies related to the arts, such as public or private subsidies, are also discussed. On the other hand, the impact of economic systems and processes, such as neoliberalism and globalization, on the arts is analyzed. Questions such as: Is art a commodity? How is the economic value of art established? What is the impact of the cultural sector on the local economy? What role does the state and public subsidy play in the development of the cultural sector? The course investigates these topics from a variety of theoretical approaches belonging to microeconomics and macroeconomics, as well as economic and cultural sociology.

GECU 6215 Independent Research Seminar

Three credits. Three hours of study a week.

Prerequisites: GECU 6005, GECU 6006, GECU 6505 Independent research seminar that will allow the student to develop a research project on a topic of particular interest. Prior to enrollment, the student will agree in writing with the professor on the specific topic to be researched and the course requirements.

GECU 6305 Cultural Management and Community Development

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

The course is based on a critical approach to the concepts and processes that define civil and community action based on theoretical discussion and research of concrete experiences, especially in Puerto Rico. It will focus on the interdependence between

concepts, symbolic structures of action and the materialization of community, organizational and institutional practices. In this course, philosophical foundations, practice, and creative thought and action are deeply interrelated dimensions in the spectrum of everyday, organizational, and collective actions.

GECU 6306 Fundamentals of Cultural Entrepreneurship

Three credits. An hour and a half of lecture and an hour and a half of discussion. The course explores business development in the cultural sector. The main theories of entrepreneurship and the profile of cultural and creative entrepreneurs are analyzed. The importance of understanding and analyzing the external environment of business management is discussed, including the economic, political-legal, demographic framework, the behavior of audiences and the analysis of the competition. The productive chain of cultural industries is analyzed as a mechanism to identify business opportunities. The course explores the development of business models that guarantee the economic and cultural sustainability of companies, as well as the discussion of key tools for entrepreneurship such as financial viability, organizational design, marketing, and commitments to government. Emphasis is placed on cultural innovation as a tool for competitive advantages in cultural entrepreneurship.

GECU 6405 Archives in Action: Digital Mediations and Virtual Art Networks

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

An interdisciplinary approach to contemporary cultural practices requires not only new ways of creation and critique, but also innovative strategies of documentation, preservation, curatorship, cataloguing and discussion. In this way, the course aims to generate a critical discussion around the digital archive as informational production, as well as a laboratory of viable proposals for digital repositories of cultural management.

GECU 6985 Topics in Digital Humanities

One to six credits. An hour and a half of lecture and an hour and a half of discussion per week.

Seminar on a variety of topics aimed at the study and application of contemporary practices in the digital humanities. You may retake up to a maximum of six credits with topics of study each time you enroll.

GECU 6990 Topics in Literature and Cultural Management

One to six credits. One hour of lecture, one hour of discussion and one hour of seminar per week.

Seminar with a variable theme aimed at the theoretical and practical study of management in the literary field. Up to a maximum of 6 credits with different topics of study may be repeated each time the student enrolls.

GECU 6991 Topics in Law and Culture

One to six credits. One hour of lecture, one hour of discussion and one hour of seminar per week.

Seminar on a variety of topics aimed at the study of the intersections between law and culture. Up to a maximum of six credits with different topics of study may be repeated each time the student enrolls.

GECU 6992 Cultural Studies Research Seminar

One to six credits. Three hours of seminar per week.

Seminar aimed at developing research skills in cultural studies, understood as a transdisciplinary field that addresses the relationships between culture, power and subjectivities from a diversity of methodological and analytical strategies. Up to a maximum of 6 credits may be repeated with different study approaches each time the student enrolls.

GECU 6993 Topics in Visual Arts Management

One to three credits. One hour of lecture, one hour of discussion, and one hour of seminar per week.

Seminar with a variable theme aimed at the theoretical and practical study of the management of the visual arts. It may be repeated up to a maximum of 9 credits with different topics of study each time the student enrolls.

GECU 6994 Topics in Cultural Project Management

From one to six credits. One hour of lecture, one hour of seminar and one hour of workshop a week.

Course with a variable theme aimed at the theoretical-practical study of the different facets of the management of cultural projects. It may be repeated up to a maximum of 9 credits with different topics of study each time the student enrolls. Some of the aspects that it will be able to cover are: the formulation of cultural projects, their implementation and evaluation; strategies for raising and financing cultural projects; proposal preparation, cultural management and community development, among others.

GECU 6995 Topics in Cultural Management and Communication

One to six credits. Three hours of seminar per week.

Seminar with a variable theme aimed at the theoretical and practical study of the relationship between management and communications. Up to a maximum of 6 credits with different topics of study may be repeated each time the student enrolls.

GECU 6996 Topics in Cultural Heritage Management

One to three credits. One hour of lecture, one hour of discussion, and one hour of seminar per week.

Seminar with a variable theme aimed at the theoretical and practical study of the management of cultural heritage. Up to a maximum of 9 credits with different topics of study may be repeated each time the student enrolls.

GECU 6997 Management Modes in the Field of Music

One to three credits. One hour of discussion, one hour of lecture and one hour of seminar per week.

Seminar with a variable theme aimed at the theoretical and practical study of management in the field of music. It may be repeated up to a maximum of 6 credits with different topics of study.

GECU 6998 Topics in Performance Studies

One to six credits. One hour of lecture, one hour of discussion and one hour of seminar per week.

Seminar with a variable theme aimed at the theoretical study, research and practice of Performance, understood in a broad sense as artistic-cultural actions that transcend the boundaries of academic art. Up to a maximum of 6 credits with different topics of study may be repeated each time the student enrolls.