

## COURSES OF INSTRUCTION

### Special Education

**EDES 4006. NATURE AND NEEDS OF EXCEPTIONAL LEARNERS.** Three credits. Three hours of lecture per week.

This course offers a overview of the psychological and educational needs of exceptional learners. It provides the experiences and knowledge necessary for the design and implementation of curricular programs, special teaching techniques, and strategies appropriate for exceptional learners. Laboratory and field experiences will be an integrate part of the course.

### Education Foundations

**EDFU 3001-3002. HUMAN GROWTH AND DEVELOPMENT I AND II.** Six credits. Three hours of lecture per week each semester.

The first semester will be devoted to an inquiry on the nature of psychology as background for a better understanding of the educational process. The growth and development of children and adolescents will be examined as well as the natural and environmental forces which influence the development of a well balanced personality.

The second semester, the student will analyze the psychological principles which underlie the teaching-learning process and the individual and social conditions which act upon it. Analysis of the process of evaluation and the principles underlying the creation of educational testing and grading.

**EDFU 3007. SOCIAL FOUNDATIONS OF EDUCATION.** Three credits. Three hours of lecture per week.

Analysis of the basic social science principles in terms of the educational process. Study and discussion of the social problems that have conditioned the development of education in Puerto Rico.

**EDFU 3017. EVALUATION OF LEARNING.** Three credit hours. Three hours of lecture per week. Prerequisites: EDFU 3001 - 3002 or authorization of the Director of the Department.

To create consciousness on the part of the student-teacher towards the philosophy of evaluation as a part of the educational process and to promote a knowledge of the quantitative and qualitative techniques of evaluation and their uses. The evaluation techniques will be analyzed and practice

will be offered in the development of valid and reliable evaluation instruments to identify, stimulate, predict and guide the student's behavioral characteristics. This course also includes the organization, presentation and statistical analysis of the results as presented by the evaluation instruments and the interpretation of this data to make intelligent decisions in relation to teaching strategies.

**EDFU 3055. LEGAL FOUNDATIONS OF EDUCATION.** Three credit hours. One and a half hour of lecture and one and a half hour of discussion per week.

Legal aspects related with the over-all process of Education the teachers, the students and the community are examined and analyzed. Two analytical models or schemes will be used: the hierarchy of norms and the jurisprudence.

**EDFU 4006. THE CHILD AND HIS SOCIAL MILIEU.** Three credits. Three hours of lecture per week.

Study of the child from the social and cultural viewpoints; analysis of the social forces and their effects on human behavior; the socializing function of the more important agencies; and their contribution to the realization of educational objectives.

**EDFU 4019. PHILOSOPHICAL FOUNDATIONS OF EDUCATION.** Three credits. Three hours of lecture per week.

Study of philosophic theory and its relation to pedagogical practice. Presentation of major problems that have been caused by conflicting educational philosophies in terms of their historical development and their present day impact. The course emphasizes and clarifies the role of the teacher in regard to educational goals, curriculum programs, and evaluation. Basic philosophical problems such as the meaning of truth and knowledge; the relation between knowledge and action; the nature of beauty, truth, happiness; and their educational implications are analyzed. The course also endeavors to promote an understanding of the way in which the development of the scientific method, the progress of democracy, changes in social and economic institutions, and the advance of human knowledge demand changes in philosophical attitudes as well as in all educational practice.

**EDIN 4005. TEST AND MEASUREMENTS FOR INDUSTRIAL VOCATIONAL EDUCATION.** Three credit hours. Three hours of lecture per week.

A course designed to develop knowledge of the relationship between scientific evaluation and effective teaching in industrial vocational education. The essential principles of psychometry as applied to shop courses; the construction, administration, interpretation, and application of achievement, performance, and aptitude tests; the organization and presentation of evaluative data; and the conversion of raw scores to letter or standard grades as used in school system of Puerto Rico.

**EDIN 4029. SHOP ORGANIZATION AND MANAGEMENT.** Three credit hours. Three hours of lecture per week.

A course designed to offer an opportunity for the discussion of problems related to shop organization and management. Includes practices and procedures in the field of industrial education; types of shop organization, layouts and housing, light, ventilation, equipment, supplies, inventories and requisitions; community needs; records and reports, safety procedures; organization of activities, student control, and other shop administrative problems in Vocational Industrial Education.

**EDPE 3129. THE USE OF MICROCOMPUTERS IN THE CLASSROOM.** Three credits. Three hours of lecture per week.

Introductory courses on the role of microcomputers in the classroom. Special emphasis will be given to the use of Microcomputers in the school setting, resources that are available to the classroom teacher and how to integrate computers to teaching. Workshop experiences and special assignments will complement class discussions.

### **Educational Programs and Teaching**

All the THEORY AND METHODOLOGY TEACHING courses are based on a theoretical and practical approach. All aspects related to the teaching of that curricular area are studied: planning, innovative education and curriculum analysis; basic content in the area of specialization; preparation, adaptation and utilization of resources; methodology, teaching techniques and strategies; fundamentals of evaluation and measurement; educational administrative skills. These contents are integrated to the class on a practical basis. All students must complete at least 15 hours per semester of observation experiences and laboratory work, inside and outside of the classroom, in public or private schools. These experiences will enable students to develop critical, dynamic and creative attitudes towards the Puerto Rican educational problems.

Prerequisite: a Baccalaureate degree or 18 credits or more with 3.0 point average in the discipline of study, *in one of the following majors:* Biology, Chemistry, English, History, Social Studies, Mathematics, Office Administration, Marketing, Accounting, Physics, Physical Education, Arts, Spanish and Theater.

The student should have also approved 15 credits or more with 3.0 average in foundation of education courses: EDFU 3001, EDFU 3002, EDFU 3007, EDFU 3017, EDFU 4019. Authorization of the Director of the Department.

**EDPE 4047. THEORY AND METHODOLOGY IN THE TEACHING OF COMPUTER TYPING SKILLS.** Three credit hours. Three hours of lecture per week. Prerequisites: EDFU 3002 or authorization of the Director of the Department.

This course will equip the student with the required competencies for directing the acquisition of occupational typing skill.

**EDPE 4059. THEORY AND METHODOLOGY IN THE TEACHING OF BUSINESS SUBJECTS IN SECONDARY SCHOOL.** Three credit hours. Three hours of lecture and fifteen hours of laboratory experiences. Prerequisites: EDFU 3001, EDFU 3002, EDFU 3007, EDFU 4019 and authorization of the Director of the Department. Corequisite: EDFU 3017 and EDPE 3129.

The course will prepare the students in the Methodology of Teaching Business Subjects and computer typing skills. It will reinforce the cognitive, affective and motor skills. Studies of theories, general procedures in teaching development, selecting and preparing teaching materials for business subjects and computer typing classes will be discussed. Various forms of evaluating student's progress will be integrated into the necessary elements in the development of necessary skills in this process.

**EDPE 4135. THEORY METHODOLOGY TEACHING SCIENCE SECONDARY SCHOOL.** Three credit hours. Three hours of lecture per week.

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of Science in Secondary School are Studied: Planning, Innovative Education and Curriculum Analysis; Basic Content in this area of Specialization, Preparation, Adaptation and Utilization of Resources; Methodology, Teaching Techniques and Strategies; Fundamentals of Measurement and Evaluation. These contents are integrated on a Practical Basis. All students must

complete at least 15 hours of laboratory experiences in public or private schools. These experiences will enable students to develop critical, dynamic and creative attitudes toward Puerto Rican Educational problems.

**EDPE 4145.** THEORY METHODOLOGY TEACHING MATHEMATICS SECONDARY SCHOOL. Three credit hours. Three hours of lecture per week.

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of Mathematics in Secondary School are Studied: Planning, Innovative Education and Curriculum Analysis; Basic Content in this area of Specialization, Preparation, Adaptation and Utilization of Resources; Methodology, Teaching Techniques and Strategies; Fundamentals of Measurement and Evaluation. These contents are integrated on a Practical Basis. All students must complete at least 15 hours of laboratory experiences in public or private schools. These experiences will enable students to develop critical, dynamic and creative attitudes toward Puerto Rican Educational problems.

**EDPE 4155.** THEORY AND METHODOLOGY IN THE TEACHING OF HISTORY AND SOCIAL STUDIES IN SECONDARY SCHOOL. Three credit hours. Three hours of lecture per week.

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of History and Social Studies in secondary school are studied: planning, innovative education and curriculum analysis; basic content in this area of specialization; preparation, adaptation and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public or private schools. These experiences will enable students to develop critical, dynamic and creative attitudes Puerto Rico educational problems.

**EDPE 4165.** THEORY AND METHODOLOGY IN THE TEACHING OF ART (K-12). Three credit hours. Three hours of lecture per week. Prerequisite: authorization of the Director of the Department.

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of Arts in K-12 School are Studied: Planning, Innovative Education and Curriculum Analysis; Basic Content in this area of Specialization, Preparation, Adaptation and Utilization of

Resources; Methodology, Teaching Techniques and Strategies; Fundamentals of Measurement and Evaluation. These contents are integrated on a Practical Basis. All students must complete at least 15 hours of laboratory experiences in public or private schools. These experiences will enable students to develop critical, dynamic and creative attitudes toward Puerto Rico Educational problems.

**EDPE 4185.** THEORY AND METHODOLOGY IN THE TEACHING OF THEATRE (K-12) Three credit hours. Three hours of lecture per week. Prerequisite: authorization of the Director of the Department.

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of Theatre in K-12 School are Studied: Planning, Innovative Education and Curriculum Analysis; Basic Content in this Area of Specialization, Preparation, Adaptation and Utilization of Resources; Methodology, Teaching Techniques and Strategies; Fundamentals of Measurement and Evaluation. These contents are integrated on a Practical Basis. All students must complete at least 15 hours of laboratory experiences in public or private schools. These experiences will enable students to develop critical, dynamic and creative attitudes toward Puerto Rican Educational problems.

**EDPE 4215.** THEORY AND METHODOLOGY IN THE TEACHING OF PHYSICAL EDUCATION IN SECONDARY SCHOOL. Three credit hours. Three hours of lecture and fifteen hours of laboratory experiences per week. Prerequisite: authorization of the Director of the Department and EDFI 4205. Corequisite: EDPE 3129.

Theoretical and practical approach to the appropriate methodology to the teaching-learning process of physical education in secondary school. Includes basic content and curriculum analysis, utilization of resources; planning, as well as teaching, measurement and evaluation techniques and strategies (all contents are integrated on a practical basis). All students must complete at least 15 hours of supervised laboratory experiences in secondary schools. This will enable students to develop critical, dynamic, and creative attitudes toward Puerto Rican educational problems.

**EDPE 4218.** THEORY AND METHODOLOGY IN TEACHING ELEMENTARY PHYSICAL EDUCATION. Three credit hours. Two hours of lecture and two hours of laboratory per week. Prerequisites: EDFI 4179, EDFI 4205. Corequisite: EDFI 3106.

Study of the theoretical and practical approaches to the teaching-learning process in elementary school physical education. Development of the knowledge, materials, and skills required for planning, preparing, and providing instruction. Study of learning theories, teaching methods and techniques, curricular analysis, and evaluation and assessment methods in the classroom and outdoor settings. Thirty (30) hours of laboratory experience in public or private schools are required.

**EDPE 4235. METHODOLOGY TEACHING SPANISH SECOND LANGUAGE.** Three credit hours. Three hours of lecture per week.

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of Spanish in Secondary School are Studied: Planning, Innovative Education and Curriculum Analysis; Basic Content in this Area of Specialization, Preparation, Adaptation and Utilization of Resources; Methodology, Teaching Techniques and Strategies; Fundamentals of Measurement and Evaluation. These contents are integrated on a Practical Basis. All students must complete at least 15 hours of laboratory experiences in public or private schools. These experiences will enable students to develop critical, dynamic and creative attitudes toward Puerto Rican Educational problems.

**EDPE 4245. THEORY AND METHODOLOGY IN THE TEACHING OF ENGLISH IN SECONDARY SCHOOL.** Three credit hours. Three hours of lecture and a minimum fifteen hours minimum laboratory experiences. Prerequisite: authorization of the Director of the Department. Corequisite: INGL 5010.

Theoretical and practical approach to the teaching-learning process. All aspects related to the teaching of English in secondary school are studied: planning, innovative education and curriculum analysis; basic content in this area of specialization; preparation, adaptation and utilization of resources; methodology, teaching techniques and strategies; fundamentals of measurement and evaluation. These contents are integrated on a practical basis. All students must complete at least 15 hours of laboratory experiences in public and private schools. These experiences will enable students to develop critical, dynamic and creative attitudes toward Puerto Rican educational problems.

**EDPE 4137. PRACTICUM IN TEACHING BIOLOGY IN SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisite: EDPE 4135.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4138. PRACTICUM IN TEACHING OF GENERAL PHYSICS IN SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisites: EDPE 4135 and authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4139. PRACTICUM TEACHING OF GENERAL CHEMISTRY SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisites: EDPE 4135 and authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates

are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4146. STUDENT TEACHING OF MATHEMATICS IN SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisites: EDPE 4145 and authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4156. STUDENT TEACHING OF SOCIAL STUDIES IN SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisite: authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4157. PRACTICUM IN TEACHING GENERAL HISTORY IN SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisite: authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4166. PRACTICUM IN TEACHING OF ART IN K-12 SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisites: EDPE 4165 and authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4186. PRACTICUM TEACHING OF THEATER IN K-12 SCHOOL.** Six credit hours. One hour of lecture and twenty hours of supervised practice per week. Prerequisite: EDPE 4185.

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to

develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends 4 hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4187. PRACTICUM IN TEACHING OF BUSINESS EDUCATION IN SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisite: authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4216. PRACTICUM IN TEACHING PHYSICAL EDUCATION.** Six credit hours. Three hours of seminar and twenty hours of supervised practice per week. Prerequisites: EDPE 4215 and authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private school; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A university professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends four hours daily to the school and three hours to the seminar at the university as schedule in the semester calendar.

**EDPE 4236. PRACTICAL IN TEACHING OF SPANISH IN SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week.

Prerequisites: EDPE 4235 and authorization of the Director of the Department.

The course requires that teacher candidates lead the process of learning and teaching in a public or private; that they participate in school activities and attend seminars offered at the University of Puerto Rico. Through these experiences teacher candidates are equipped with theories, practical techniques and methods to develop their knowledge, skills and attitudes that contribute to improvements in practicum. In addition, we discuss and analyze current topics in the field of study or situations that arise during their practicum. A University professor, a cooperating teacher and the school principal supervise the teacher candidate. The teacher candidate attends fours hours daily to the school or the seminar at the University as scheduled in the semester calendar.

**EDPE 4246. STUDENT TEACHING OF ENGLISH IN SECONDARY SCHOOL.** Six credit hours. One hour of lecture per week and twenty hours of supervised practice per week. Prerequisites: EDPE 4245 and authorization of the Director of the Department.

The student will be assigned to a public (or private) secondary school for three hours daily, five days a week. Four days will be devoted to teaching English and participating in other activities that form part of the work of the teacher. One day weekly will be spent in a seminar with the college supervisor to analyze and discuss the problems students are facing in their student teaching. In this laboratory student will be helped in their learning by the cooperating teacher, the school principal and the college supervisor.