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## COURSES OF INSTRUCTION

### DEPARTMENT OF AGRICULTURAL EDUCATION

#### Undergraduate Courses

**EDAG 3005. AGRICULTURAL ORIENTATION.** One credit hour. One hour of lecture per week.

A survey of the general goals, functions and policies of the main agricultural organizations working in Puerto Rico, emphasizing the objectives of the College of Agricultural Sciences, thus guiding the student in the selection of courses and field of specialization.

**EDAG 3006. INTRODUCTORY INTERNATIONAL AGRICULTURE.** Three credit hours. Three hours of lecture per week. Prerequisite: EDAG 3005.

Study and discussion of world agriculture and food production issues including factors such as: geographical characteristics, cultural issues, and political, social and economic problems. Special attention is given to agricultural production in developing countries and the tropics.

**EDAG 4005. METHODS IN TEACHING VOCATIONAL AGRICULTURE.** Three credit hours. Three hours of lecture per week. Prerequisite: junior standing.

This course is intended to help students develop a sound philosophy of all-day instruction in vocational agriculture. It emphasizes the preparation of annual teaching calendars, job analyzing, the learning process, methods and techniques of teaching, lesson planning and the evaluation of learning.

**EDAG 4006. CURRICULUM DEVELOPMENT.** Three credit hours. Three hours of lecture per week. Prerequisite: EDAG 4005.

Curriculum planning theory and practices. Problems and principles in curriculum development. Defining goals and objectives. Selecting appropriate curriculum designs, and planning curriculum implementation and evaluation.

**EDAG 4007. ORGANIZATION AND ADMINISTRATION IN VOCATIONAL AGRICULTURE.** Three credit hours. Three hours of lecture per week. Prerequisite: EDAG 4005.

The Vocational Education Act: general rules and regulations for the administration and functioning of

Vocational Agriculture Department, and the qualification and duties of the teachers of vocational agriculture.

**EDAG 4008. SUPERVISED OCCUPATIONAL EXPERIENCE PROGRAMS.** Three credit hours. Three hours of lecture per week. Prerequisite: EDAG 4005.

Principles, practices and procedures to planning, programming, implementing and evaluating comprehensive supervised farming programs and supervised occupational experience programs. Emphasis will be given to purpose of farm and off farm occupational experience programs. Analysis of home farm and off farms employment experience opportunities and program planning and supervision.

**EDAG 4009. TEACHING YOUNG AND ADULT FARMERS.** Three credit hours. Three hours of lecture per week. Prerequisite: EDAG 4005.

Principles and practice of planning, organizing, promoting, implementing and evaluating young adult farmer courses. Emphasis will be given to the decision-making approach, selection of methods and techniques, lesson planning, class management and evaluation techniques.

**EDAG 4015. YOUTH ORGANIZATION AND PROGRAMS.** Three credit hours. Three hours of lecture per week.

History, philosophy, importance, objectives, and work programs of youth organization. Advisors, function, and characteristics, planning programming, implementation, and evaluation of the organization work program, with emphasis in F.F.A., 4-H, and young farmers.

**EDAG 4016. AUDIOVISUAL MEDIA IN TEACHING VOCATIONAL AGRICULTURE.** Three credit hours. Two hours of lecture and three hours of laboratory per week.

Philosophical and psychological implication of the use of audiovisual media in teaching. Location, selection, and evaluation of the audiovisual material for teaching purposes. Planning, designing and preparation of audiovisual material to teach vocational agriculture. Practice in the operation and management of audiovisual equipment and a media center.

**EDAG 4017. SEMINAR.** One credit hour. One hour of lecture per week. Prerequisite: nine credits in agricultural education or agricultural extension.

Discussion of problems related to the development of instructional programs in vocational agriculture; planning, organization, development, follow-up, evaluation, related legislation and trends.

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**EDAG 4018-4019. TEACHING PRACTICE I AND II.** Three credit hours per semester. One hour of lecture and six hours of laboratory work per week, each semester. Prerequisite: EDAG 4005, EDAG 4006. Corequisite: EDAG 4007.

Supervised observation of vocational agriculture teaching. Full time participatory experience of trainees in all phases of the work of vocational agriculture teachers.

**EDAG 4025. EVALUATION OF STUDENTS IN VOCATIONAL AGRICULTURE.** Three credit hours. Three hours of lecture per week. Prerequisite: EDAG 4005.

Principles, criteria, procedures and techniques employed in the evaluation of the performance of students in Vocational Agriculture.

**EDAG 4026. SUPERVISION IN AGRICULTURAL EXTENSION AND VOCATIONAL AGRICULTURE.** Three credit hours. Three hours of lecture per week.

Theories, principles and practice pertaining to supervision in agricultural extension and vocational agriculture; factors that influence needs, philosophies, and types of supervision at the local, regional, state and national levels; training, responsibilities, personal traits and duties of the supervisor.

**EDAG 4030. STUDY TOUR IN AGRICULTURE AND NATURAL RESOURCES.** Three credit hours. Twelve to fifteen hours of orientation meetings and a trip during the summer session. Prerequisite: have completed a minimum of 48 credits of its program of study in the Agricultural Sciences Faculty.

Study tour to foreign countries with the purpose of observing and studying the agricultural industry and the management and conservation of natural resources. The opportunity to become familiarized with governmental agencies, universities, agricultural experimental stations, and natural resources will be provided. Activities to incorporate the cultural aspects of the visited country will be included.

## **AGRICULTURAL EXTENSION**

### **Undergraduate Courses**

**EXAG 4005. EXTENSION PHILOSOPHY AND OBJECTIVES.** Three credit hours. Three hours of lecture per week.

This course is designed to familiarize students with the organization, philosophy, and objectives of the Agricultural Extension Service.

**EXAG 4006. TEACHING METHODS AND TECHNIQUES IN EXTENSION.** Three credit hours. Three hours of lecture per week.

This course covers the various educational methods used by the Extension Service. The students will participate in the major activities of the extension work in the district in cooperation with the local agent of the Puerto Rico Agricultural Extension Service.

**EXAG 4007. AGRICULTURAL EXTENSION PRACTICUM.** Three credit hours. A minimum of thirty hours per week during six consecutive weeks. Prerequisites: INPE 3005, CFIT 3005, AGRO 3005, EDAG 3005, HORT 3005, PROC 4006, INPE 4005, EXAG 4005, CFIT 4005, EXAG 4006, AGRO 4037, EDAG 4015 and authorization of the Director of the Department.

Practical work experience in Agricultural Extension. It is carried out under the supervision of the Department in collaboration with public or private entities.

**EXAG 4008. SPECIAL PROBLEMS IN EXTENSION.** One to three credit hours. One to three research periods per week. Prerequisite: EXAG 4005.

The student selects and studies an area of extension of his interest, and reports the findings.

**EXAG 4009. SEMINAR IN EXTENSION EDUCATION.** One credit hour. One hour of lecture per week. Prerequisite: EXAG 4005.

Discussions of problems related to Program Planning Development, Rural Development, Farm Home Development, or other phases of Extension work. Areas to be discussed are selected at the beginning of the course.

**EXAG 4015. INTRODUCTION TO AGRICULTURAL COMMUNICATION.** Three credit hours. Three hours of lecture per week.

Principles and practices in communications; skills and knowledge for person to person, group, and mass communication; panel and group discussions. Practical exercises.

**EXAG 4016. GROUP DYNAMICS AND LEADERSHIP.** Three credit hours. Three hours of lecture per week.

Discussion of the research and theory in the study of small groups with emphasis on motivational forces involved, and the leadership function in the attainment of the group goals.