

**UNIVERSITY OF PUERTO RICO
MAYAGUEZ CAMPUS
COLLEGE OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP PROTECTION**

COURSE SYLLABUS

General information:

Course Number: PROC 4017
Course title: Weed control
Credit hours: Three credit hours

Course Description:

Discussion of weed classification and identification. Study of ecological and physiological aspects involved in weed growth and control with emphasis in those weeds of economic importance. Study of weeds as economic pests occurring in both agricultural and nonagricultural situations, including poisonous plants and other weed problems. The use of commercial herbicides and others methods of control are discussed. Aspects involved in the development of weed management programs for agricultural commodities are considered in general.

Pre/Co-requisites: CFIT 3005 and CHEM 3002

Textbooks:

Fundamentals of Weed Science. 1998. 2nd Ed. R. Zimdahl (author). Academic Press.

Weed Science: principles and practices. 1991. 3rd Ed. (F. M. Ashton y T. J. Monaco authors). 1991. John Wiley & Sons, Inc.

Purpose:

This course is a requirement for majors in Agronomy and Crop Protection departments

Course Goals:

At the end of course the student must be familiarized with the basic principles and practices involved in weed control. As a future professional the student should know how to identify and solve problems caused by weeds, especially in agriculture commodities. Class lectures as well as laboratory practices intend to encourage and introduce the student in the basic research methods used in this discipline.

Requirements: Students are expected to attend all classes and laboratories, do all assigned readings and related homework and come to classes prepared for questions and quizzes.

Laboratory/Field Work: Laboratories are considered a major part of the course and all students are expected to participate.**Department/Campus Policies:**

Class attendance. Class attendance is compulsory. The University of Puerto Rico, Mayagüez Campus, reserves the right to deal at any time with individual cases of non-attendance. Professors are expected to record the absences of their students. Frequent absences affect the final grade, and may even result in total loss of credits. Arranging to make up work missed because of legitimate class absence is the responsibility of the student. (Bulletin of Information Undergraduate Studies, pp. 47, 2000-2001).

Absence from examinations. Students are required to attend all examinations. If a student is absent from an examination for a justifiable reason acceptable to the professor, he or she will be given a special examination. Otherwise, he or she will receive a grade of zero or “F” in the examination missed. (Bulletin of Information Undergraduate Studies, pp. 47, 2000-2001).

Final examinations: Final written examinations must be given in all courses unless, in the judgment of the Dean, the nature of the subject makes it impracticable. Final examinations scheduled by arrangements must be given during the examination period prescribed in the Academic Calendar, including Saturdays. (See Bulletin of Information Undergraduate Studies, pp. 47, 2000-2001).

Partial withdrawals. A student may withdraw from individual courses at any time during the term, but before the deadline established in the University Academic Calendar. (See Bulletin of Information Undergraduate Studies, pp. 45, 2000-2001).

Complete withdrawals. A student may completely withdraw from the University of Puerto Rico, Mayagüez Campus, at any time up to the last day of classes. (See Bulletin of Information Undergraduate Studies, pp. 46, 2000-2001).

Disabilities. All the reasonable accommodations according to the Americans with Disability Act (ADA) Law will be coordinated with the Dean of Students and in accordance with the particular needs of the student.

General Topics:

- Introduction
- Weed biology and seed production
- Weed control methods
- Classification of herbicides
- Physiological aspects of herbicides action
- Factors affecting herbicide actions
- Genetics and herbicide-resistance crops
- Developing a weed management program
- Recommendations for weed control in Puerto Rico
- Laboratory Section