



University of Puerto Rico
Mayagüez Campus
College of Agricultural Sciences
Department of Agricultural and Biosystems Engineering



OFFICIAL SYLLABUS

**SAFETY IN AGRICULTURE
SAGA 4017**

Credit Hours: 3	Contact Hours: 2 hours conference per week	
Prerequisites: None	Co-requisites: None	
Course Description (English): Principles of personnel and property protection as applied to agricultural operations and use of agricultural machinery, with emphasis on the development of a philosophy of safety as a basis for effective accident prevention		
Course Description (Spanish): Principios fundamentales comprendidos en la protección de la propiedad y del personal en las operaciones agrícolas y en el uso de la maquinaria agrícola, se pondrá especial atención en el desarrollo de una filosofía de la seguridad, como base para la efectiva prevención de accidentes.		
Learning Objectives: After completing the course, the student should be able to: a. Develop a philosophy related to Farm Safety, Laws and Regulations of Occupational Safety and Health, and natural disaster preparedness. b. Become familiar with the principles of personal and property protection with farm work emphasis. c. Investigate and provide a prompt and effective standard setting for the protection of employees, against new and unforeseen hazards.		

Content Outline and Time Distribution:

<i>Topics to be covered</i>		<i>Contact hours</i>
I.	Introduction - history, summary of situations and statistics of accidents, safety and health programs development and safety use of farm Machinery, Puerto Rico Occupational Safety and Health Act.	1
II.	Characteristics of Production Agriculture.	1
III.	Farm and Agriculture Injury Statistics.	1
IV.	The Beginning of Production Agriculture Safety and Health.	1
V.	Fundamentals of Occupational Safety and Health: Applications to Production Agriculture	1
VI.	Personal Protection Equipment	1
VII.	Hazard and Injury Prevention and Controls: Approaches and Methods	2
VIII.	Farm Machinery Safety Operation	4
IX.	Human Factors in a Safe Farm Operation	2
X.	Recognizing and Dealing with Common Machinery Safety Hazard	2
XI.	Equipment Service and Maintenance: hazards during service and Maintenance work, shop management and emergency situations.	3
XII.	Fire Prevention and a Safe Farm Operation	1
XIII.	Tractors and Self - propelled Machines: Tractor Safety Use and Farm Operation. Common Types of Accidents.	5
XIV.	Pesticides Safety Use, Risk Communication, Pesticides Laws and Safety Rules.	2
XV.	Three (3) one hour Exams	3
XVI.		
XVII.		
XVIII.		
<i>Total hours: (equivalent to course contact period)</i>		<i>5.0</i>

Instructional Techniques:

- conference discussion computation laboratory
 seminar with formal presentation seminar without formal presentation workshop
 art workshop practice trip thesis special problems
 tutoring research others, please specify:

Learning Resources and Minimum Facilities Available or Required:

The course will be taught in a traditional classroom. Equipment such as transparencies and head projector will be used in lectures. General Library and University Computer Center is available to obtain professor's reference materials. Presentations will be done in the computer with a projector, which is also available in the department.

Evaluation Techniques and Relative Weight:

	Percent
<input checked="" type="checkbox"/> 2 Exams (20% each)	40
<input checked="" type="checkbox"/> Final exam	20
<input checked="" type="checkbox"/> Short quizzes	20
<input type="checkbox"/> Laboratory	
<input type="checkbox"/> Oral reports	
<input type="checkbox"/> Monographies	
<input type="checkbox"/> Portfolio	
<input type="checkbox"/> Journals	
<input checked="" type="checkbox"/> Projects	20
<input type="checkbox"/> Others, specify:	
TOTAL: 100%	100%

Grading System:

- Quantifiable (letters) Not Quantifiable

Standard Curve: 90 to 100 A; 80 < 90 B; 70 < 80 C; 60 , 70 D; < 60 F

Bibliography:

Safety and Health for Production Agricultural

Dennis j. Murphy. 1992

OSHA and OSHO publications

Ley de Seguridad y Salud en el Trabajo de Puerto Rico. (Ley 16).

OSHA Bulletin and publications

OSHO publications

Agricultural Extension publications

UPR publications

P.R. Civil Defense publications

According to Law 51:

Law 51: The Comprehensive Educational Services Act for People with disabilities states that after identifying with the instructor and the institution, the student with disabilities will receive reasonable accommodation in their courses and evaluations. For more information contact the Department of Counseling and Psychological services at the Office of the Dean of Students (Office DE 21) or call 787-265-3864 or 787-832-4040 x 3772, 2040 and 3864.

Academic Integrity:

The University of Puerto Rico promotes the highest standards of academic and scientific integrity. Article 6.2 of the UPR Students General Bylaws (Board of Trustees Certification 13, 2009-2010) states that academic dishonesty includes, but is not limited to: fraudulent actions; obtaining grades or academic degrees by false or fraudulent simulations; copying the whole or part of the academic work of another person; plagiarizing totally or partially the work of another person; copying all or part of another person answers to the questions of an oral or written exam by taking or getting someone else to take the exam on his/her behalf; as well as enabling and facilitating another person to perform the aforementioned behavior. Any of these behaviors will be subject to disciplinary action in accordance with the disciplinary procedure laid down in the UPR Students General Bylaws.—.

Policy Against Discrimination Based on Sex, Sexual Orientation, and Gender Identity:

The University of Puerto Rico prohibits discrimination based on sex, sexual orientation, and gender identity in any of its forms, including that of sexual harassment. According to the Institutional Policy Against Sexual Harassment at the University of Puerto Rico, Certification Num. 130, 2014-2015 from the Board of Governors, any student subjected to acts constituting sexual harassment, may turn to the Office of the Student Ombudsperson, the Office of the Dean of Students, and/or the Coordinator of the Office of Compliance with Title IX for an orientation and/or formal complaint.

Sexual Harassment: Certification 130-2014-2015 states:

Sexual harassment in the workplace and in the study environment is an illegal and discriminatory act and is against the best interests of the University of Puerto Rico. All persons who understand they have been subject to acts of sexual harassment at the University of Puerto Rico may file a complaint and request that the institution investigate, where necessary, and assume the corresponding action by the university authorities. If the complainant is a student, he or she must refer his or her complaint to the Office of the Student Ombudsperson or that of the Dean of Students.

Certification 06-43 of the Academic Senate states, "The academic guidelines for offering online courses," defines:

Traditional face-to-face courses are those that have less than 25% of the course's regular contact hours via the Internet. Therefore, a three-credit course will be considered "face to face" if, of the 45 hours of regular contact, 11 or less are taught via the Internet. According to certification 16-43 of the Academic Senate, a course may include up to 25% of its total contact hours via the Internet. The objective of this is so that all professors have this alternative in the case of any unscheduled eventuality.

Includes attachments:

Yes

No