



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



OFFICIAL SYLLABUS

**FOOD PACKAGING
SAGA 5025**

Credit Hours: 3	Contact Hours: 3 hours of conference per week
Prerequisites: None	Co-requisites: None
Course Description (English): Study of food packaging and its multiple roles in protecting packaged food and beverage products and facilitating distribution and communication with retailers, consumers and users. Study of the relationship between food packaging and health, safety and economic wellbeing. Use of technology and its integration with products, distribution, and marketing.	
Course Description (Spanish): Estudio del empaque de alimentos y sus múltiples funciones en la protección y facilitación de la distribución de bebidas y alimentos empacados y la comunicación con los detallistas, consumidores y usuarios. Estudio de las relaciones entre el empaque de los alimentos y la salud, seguridad y bienestar económico. Uso de la tecnología y su integración a los productos, a la distribución y al mercadeo.	
Learning Objectives: After completing the course, the student should be able to: a. Explain the interaction between food, packaging and the environment. b. Specify packaging requirements for several different food product categories.	

Content Outline and Time Distribution:

<i>Topics to be covered</i>		<i>Contact hours</i>
I.	Introduction; Definitions; What is Packaging?	1
II.	A Short History of Packaging	2
III.	Scope of the Packaging Industry	2
IV.	Roles of Suppliers	2
V.	The Package in Product Distribution	3
VI.	Food and Packaging Technologies	3
VII.	Packaging Materials	3
VIII.	Packaging Operations	3
IX.	Interactions of Product and Packaging	3
X.	Regulations	3
XI.	Economics	3
XII.	The Role of Packaging in Marketing and Sales of Food and Beverage Products	3
XIII.	Graphic Design and Assessment	3
XIV.	Management of the Packaging Function within the Food or Beverage Companies	2
XV.	Packaging and Food Safety	3
XVI.	Group Presentations or Case Studies	6
XVII.		
XVIII.		
<i>Total hours: (equivalent to course contact period)</i>		45

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 type="checkbox"/> Short quizzes	
<input type="checkbox"/> Laboratory	
<input checked="" type="checkbox"/> Homework and Oral reports	20
<input type="checkbox"/> Monographies	
<input type="checkbox"/> Portfolio	
<input type="checkbox"/> Journals	
<input checked="" type="checkbox"/> Attendance and Participation	20
<input type="checkbox"/> Others, specify:	
TOTAL: 100%	0%

Grading System:

Quantifiable (letters) Not Quantifiable

Standard Curve: 90 to 100 A; 80 < 90 B; 70 < 80 C; 60 < 70 D; 0 < 60 F

Bibliography:

Soroka, W. 2002. Fundamentals of Packaging Technology.
Third Edition. Institute of Packaging Professionals.

Paine, F.A. and H.Y. Paine. 1992. A handbook of Food Packaging.
Van Nostrand Reinhold, Inc. New York.

Robertson, G.L. 1993. Food Packaging: Principles and Practice.
Marcel Dekker, Inc. New York.

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