



## Information about the subject

**Degree:** Bachelor of Science Degree in Human Nutrition and Dietetics

**Faculty:** Faculty of Medicine and Health Sciences

**Code:** 1310303 **Name:** Hygiene and Food Safety

**Credits:** 6,00 **ECTS Year:** 3 **Semester:** 1

**Module:** Hygiene, Food Safety and Quality Management Module

**Subject Matter:** Hygiene **Type:** Compulsory

**Field of knowledge:** Health Sciences

**Department:** Nutrition

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** Spanish

**Lecturer/-s:**

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## Module organization

### Hygiene, Food Safety and Quality Management Module

Subject Matter	ECTS	Subject	ECTS	Year/semester
Economic and legal aspects	12,00	Economy and Food Management	6,00	2/2
		Legislation and Quality Management Systems	6,00	3/1
Hygiene	6,00	Hygiene and Food Safety	6,00	3/1

## Recommended knowledge

## Prerequisites: Not established

## Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 Understands and assimilates the concepts included in the course content.
- R2 Shows ability to solve problems related to these contents using different resources.
- R3 Demonstrates ability to work in a laboratory performing correctly the basic operations and observing the corresponding security rules. As well as a correct understanding of the planning, development and purpose of the experience.
- R4 Understands and presents data.
- R5 Collaborates with the teacher and colleagues throughout the learning process: Attendance to theoretical, practical or tutoring sessions; teamwork; respect in the treatment; compliance with the rules of organization of the subject for the benefit of all.



## Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC	Weighting			
	1	2	3	4
CB2 Students know how to apply their knowledge to their work or vocation in a professional way and possess the skills that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study.				X

  

GENERAL	Weighting			
	1	2	3	4
CG24 Students interpret reports and administrative files in relation to a food product and ingredients.			X	
CG25 Students participate in the management, organization and development of food services.				X
CG27 Students intervene in the quality and food safety of products, facilities and processes.			X	
CG28 Students provide the appropriate hygienic-sanitary and dietetic-nutritional training to the personnel involved in the catering service.				X

  

SPECIFIC	Weighting			
	1	2	3	4
CE05 Students know the different educational methods of application in health sciences, as well as the communication techniques applicable in food and human nutrition.		X		
CE17 To develop, apply, evaluate and maintain adequate hygiene practices, food safety and risk control systems, applying current legislation.				X



CE20	Students evaluate, control and manage aspects of traceability in the food chain.				X
CE24	To collaborate in consumer protection within the framework of food safety.				X



## Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R5	5,00%	Evaluation of the use of the practical classes in the classroom, of problems or computers, seminars and tutorials. Through attendance, and participation in the different activities proposed.
R1, R4	65,00%	Written evaluation of the knowledge and skills obtained. The test may consist of a series of open-ended or multiple-choice questions on the theoretical content of the subject and/or practical exercises (problem solving).
R2, R4	15,00%	Assessment of practical laboratory work, or laboratory culinary techniques workshop, through which the competencies acquired must be demonstrated and that they are capable of being used to solve the different situations and problems that arise in a laboratory; this assessment may be carried out by one of the following methods, or a combination of several of them: an individual written test, the individual or group performance of a laboratory experience, the submission of an individual or group report on the work carried out in the laboratory
R2, R3, R5	15,00%	Evaluation of individual or group practices or activities, in which information related to each of the subjects must be sought and structured, and cases or problems resolved. This is done through a system of continuous evaluation throughout the course, which involves the delivery and / or exposure of work, whose objectives and content will be proposed by the teacher.

### Observations

The evaluation system consists of a continuous evaluation throughout the development of the subject, for this the student will solve cases proposed in the seminars, carrying out practices in the



laboratory and working in class on the activities assigned by the teacher. The weight of this continuous evaluation is 35% of the final grade.

A final test will be taken on an official date. This test will consist of multiple choice questions along with development questions. The weight given to this final test is 65% of the final grade. A minimum grade of 5 is needed on the final test to be able to average with the rest of the activities. Attendance at laboratory practices is mandatory.

### **The criteria for awarding "Matrícula de Honor"**

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded.

Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong.

### **MENTION OF DISTINCTION:**

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

## Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Exposition of contents by the teacher, analysis of competencies, explanation and demonstration of capacities, skills and knowledge in the classroom. The blackboard, the computer and the cannon will be used to display texts, graphics, etc.



- M2 Resolution of practical exercises and case studies, analysis of evaluation procedures and procedural intervention. All this with the support of the teacher. This aspect can be controlled through attendance and active participation in the practical sessions.
- M3 Resolution of practical exercises and case studies, analysis of evaluation procedures and procedural intervention. All this with the support of the teacher. This aspect can be controlled through attendance and active participation in the practical sessions.
- M4 Monographic sessions throughout the course, oriented towards current aspects and applications of the subject.
- M5 Student study: individual preparation of readings, essays, problem solving, seminars, papers, reports, etc. for discussion or delivery in electronic format.
- M7 Personalised attention and in small groups. Period of instruction and/or orientation carried out by a tutor with the aim of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc. The attendance of the student and his/her level of gradual development in the knowledge of the subjects will be evaluated.
- M8 A set of tests, written or oral, used in the evaluation of the student.
- M9 Group preparation of readings, essays, problem solving, seminars, papers, reports, etc... for discussion or delivery.



## IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons M1	R1, R2, R4, R5	39,00	1,56
Practice lessons M2	R2, R4, R5	6,00	0,24
Laboratory M9	R2, R3, R4, R5	9,00	0,36
Seminar M4	R5	2,00	0,08
Office Hours M7	R1, R5	2,00	0,08
Evaluation M8	R1, R2, R4	2,00	0,08
<b>TOTAL</b>		<b>60,00</b>	<b>2,40</b>

## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Autonomous work M5	R1, R2, R3, R4, R5	70,00	2,80
Group work M9	R4, R5	20,00	0,80
<b>TOTAL</b>		<b>90,00</b>	<b>3,60</b>





## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

### Theoretical contents:

Content block	Contents
Didactic Unit I: General Concepts in Food Hygiene	<ul style="list-style-type: none"><li>- Topic 1: Introduction to food hygiene</li><li>- Topic 2: Cleaning and disinfection</li><li>- Topic 3: Specific quality regulations in the food sector</li></ul>
Didactic Unit II: Safety in the management of the Food Industry	<ul style="list-style-type: none"><li>- Topic 4: Food handlers</li><li>- Topic 5: Installations and equipment</li><li>- Topic 6: Food preparation and handling</li></ul>
Didactic Unit III: Control, surveillance and corrective measures in the Food Industry	<ul style="list-style-type: none"><li>- Topic 7: Control and prevention of pests</li><li>- Topic 8: Control and prevention of pathogens and toxic substances</li><li>- Topic 9: Merchandise</li><li>- Topic 10: Drinking water</li></ul>
Didactic Unit IV: Food Safety	<ul style="list-style-type: none"><li>- Topic 11: Food management in emergencies</li></ul>



## Temporary organization of learning:

Block of content	Number of sessions	Hours
Didactic Unit I: General Concepts in Food Hygiene	8,00	16,00
Didactic Unit II: Safety in the management of the Food Industry	7,00	14,00
Didactic Unit III: Control, surveillance and corrective measures in the Food Industry	11,00	22,00
Didactic Unit IV: Food Safety	4,00	8,00



## References

### BASIC BIBLIOGRAPHY

- HSQ Food, Drug and Cosmetic Division, 2003. HACCP. Manual del auditor de calidad. Editorial Acribia, S.A., Zaragoza.
- Ferrandis-García Aparisi, G. Seguridad, higiene y gestión de la calidad alimentaria, 2019. 2ª ed. Síntesis.
- Dorado Martín, E. Trazabilidad y seguridad alimentaria?: sistema APPCC, 2018. ExLibric.
- Repetto, M, Repetto G. Toxicología Fundamental, 4ª ed, Díaz de Santos Madrid 2009.
- Felipe Tablado C, Felipe Gallego J. Manual de higiene y seguridad alimentaria en hostelería. Ed. Thomson, Paraninfo. 2004. Madrid
- Marriott, N.G. Principios de higiene alimentaria. Editorial Acribia, S.A., 1999. Zaragoza
- Forsythe SJ, Hayes, PR. Higiene de los alimentos. Microbiología y HACCP. Editorial Acribia, S.A.1999. Zaragoza.

### FURTHER READING

- Legislación española: Boletín Oficial del Estado: <http://www.boe.es/>
- Legislación europea: Diario Oficial de las Comunidades Europeas: [http://europa.eu/agencies/community\\_agencies/efsa/index\\_es.htm](http://europa.eu/agencies/community_agencies/efsa/index_es.htm)
- Libro blanco sobre Seguridad Alimentaria. Comisión de las Comunidades europeas. Bruselas, 12.1.2000. COM (1999) 719 final
- Agencia Europea de Seguridad Alimentaria. <http://www.efsa.europa.eu/>
- Agencia Española de Seguridad Alimentaria y Nutrición: <http://www.aecosan.msssi.gob.es/>
- Plan de Seguridad Alimentaria en la Comunidad Valenciana: <http://www.sp.san.gva.es/>
- Asociación Española de Toxicología: <http://www.aetox.es>



## Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

**Situation 1: Teaching without limited capacity** (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

**Situation 2: Teaching with limited capacity** (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

### 1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

Microsoft Teams

Kaltura



## **Situation 3: Confinement due to a new State of Alarm.**

In this case, the following changes are made:

### **1. Educational Activities of Onsite Work:**

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

Microsoft Teams

Kaltura

Explanation about the practical sessions:



## 2. System for Assessing the Acquisition of the competences and Assessment System

### ONSITE WORK

#### Regarding the Assessment Tools:

The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used
Attendance and participation	5	This percentage will be added to the work carried out	Campus UCVnet

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

#### Comments to the Assessment System: