

## 66857 - New tools in food safety

### Syllabus Information

**Academic year:** 2023/24

**Subject:** 66857 - New tools in food safety

**Faculty / School:** 105 - Facultad de Veterinaria

**Degree:** 617 - Master's in Global Health: Integration of Environmental, Human and Animal Health

**ECTS:** 3.0

**Year:** 1

**Semester:** Second semester

**Subject type:** Optional

**Module:**

### 1. General information

This elective subject belongs to the specialization module in Public Health of the Master's Degree in Global Health: Integration of Environmental, Human and Animal Health and has an eminently practical character. Its main objective is to enable the student to integrate new concepts within the food safety and self-control program in the food industry, addressing food safety management with a proactive approach and developing plans for prevention and control of the risk of disease transmission to humans through food.

These approaches and objectives are aligned with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/en/>), such that the acquisition of the learning results of the subject provides training and competence to contribute to some extent to the achievement of Objectives 3.3 and 3.9 of Goal 3, Objective 6.3 of Goal 6, Objective 9.4 of Goal 9 and Objective 12.5 of Goal 12.

It is recommended that the student has a basic knowledge of food microbiology, toxicology and hygiene and the basic food safety management system based on HACCP.

### 2. Learning results

- To know food safety management tools and how to apply them.
- To develop a scientific assessment applicable to the use of food safety targets.
- To create guidelines for food crisis control
- To implement a traceability system in the food chain
- To undertake shelf-life studies aimed at food safety assurance

### 3. Syllabus

Topic 1. Food safety management systems: progress and challenges.

Topic 2. Food Safety Objectives (FSO) and performance criteria.

Topic 3. HACCP system validation tools.

Topic 4. HACCP system verification tools.

Topic 5. Integration of shelf life into the food safety management system.

Topic 6. Food fraud management: vulnerability assessment and critical control point (VACCP) system.

Topic 7. Food defence: Threat Assessment and Critical Control Point (TACCP) system.

Topic 8. Food safety in food donation and utilization.

Topic 9. Food alert management and communication tools.

### 4. Academic activities

**Master Class.** 16 hours

Presentation of advances in strategies to ensure food safety and orientation of databases and information sources for the development of models applied to the food sector.

**Problems and cases.** 14 hours

Analysis and solving of cases related to the application of the tools covered in the subject including debate and guided discussion in the classroom. Preparation of teaching assignments supervised by the teacher. Presentation and discussion of the group work.

**Teaching assignments.** 13.5 hours

Individual/group work (validation of food control measures) and individual practice report (solving practical cases).

**Personal study.**30 hours

**Assessment tests: 1.5 hours.**

**Individual and/or group tutoring,** face-to-face or virtual doubt solving.

## 5. Assessment system

**CONTINUOUS ASSESSMENT (during the teaching period)** To be eligible for this assessment system, attendance to 80% of the scheduled academic activities is mandatory. To pass the subject it is necessary to obtain a minimum grade of 5/10 points in each of the tests. The grades obtained in the tests passed will be saved during the same academic year.

**a) Individual report of practical cases(40% of the final grade)** Submission of a written report of two practical cases based on the application of the knowledge acquired. Assessment criteria: ability to apply knowledge to practice, use of information sources, clarity and written expression, interpretation and critical capacity of the conclusions obtained. The test can be written in the ordinary and extraordinary call if the student does not pass it in the first call.

**b) Preparation, presentation and oral discussion of the group work (60% of the final grade)** The work will be based on the validation through scientific literature of a food control model applied to real scenarios as a basis for decision making in the food safety management system. The test will consist of the preparation and delivery of the work with slides, oral presentation and discussion with the whole class. Assessment criteria: capacity to analyse and summarise, expository clarity, scientific rigor, critical and self-critical capacity, active participation of the student in the process of tutoring in the preparation of the work. If the Individual/group work is not successfully assessed in the first call, it can be corrected and submitted again in the ordinary and extraordinary calls.

**Note:** students who have passed the subject according to the continuous assessment and wish to improve the grade obtained, will take a global final exam in the ordinary call, consisting of an oral test of questions related to the work that the student has done in group during the teaching period.

**FINAL COMPREHENSIVE TEST (ordinary and extraordinary calls)** In order to pass the subject it is necessary to obtain a minimum grade of 5/10 points in each of the assessment tests. The grades obtained in the tests passed will be saved during the same academic year.

**a) Individual report of practical cases(40% of the final grade)** It will consist of the same test as the one for the continuous assessment system.

**b) Preparation, presentation and oral discussion of the work done individually(60% of the final grade)** It will consist of the same test as the one for the continuous evaluation system. The preparation of the work will be individual, including oral presentation and discussion with the teachers of the subject.