

30822 - General Food Hygiene

Syllabus Information

Academic Year: 2019/20

Subject: 30822 - General Food Hygiene

Faculty / School: 105 - Facultad de Veterinaria

Degree: 568 - Degree in Food Science and Technology

ECTS: 6.0

Year: 3

Semester: First semester

Subject Type: Compulsory

Module: ---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The methodology followed in this course is based on lectures and practical sessions carried out by groups of students. Practical sessions (Laboratory and informatic tools) are focused on looking into theoretical aspects developed in lectures.

Students are expected to participate actively in the class throughout the semester.

Classroom materials will be available for the student via Moodle. These include a repository of the lecture notes used in class, the course syllabus, as well as other course-specific learning materials.

Further information regarding the course will be provided on the first day of class.

4.2.Learning tasks

The course includes the following learning tasks:

40 hours of participatory lectures and 6 practical sessions of 3 hours each related to identification and characterization of biotic and abiotic hazards.

The development of practical sessions is performed by the students. Different topics are assigned by the teacher to make a powerpoint presentation in groups. Likewise, an individual work is also evaluated.

4.3.Syllabus

The course will address the following topics:

1st Section.- General aspects and concepts related to Food Hygiene

- Concepts of Food Hygiene, Food Safety, Food Security and Aptitude for human consumption.
- Global approach in the Food chain.

2nd Section. Food-borne hazards (Anthropogenic sources, natural contamination)

- Introduction to food toxicology: Food contaminants: Concepts and classification. Toxicological assessment.
- Natural toxins in Food: Plant and animal derived toxins, toxins derived from mushroom, marine biotoxins.
- Food allergens.
- Types and sources of abiotic contamination in food.
- Origin and prevention of environmental contaminants.
- Residues of veterinary drugs in foodstuffs: Origin and prevention
- Origin and prevention of contaminants produced in the manufacturing and preparation processes in the food industry.
- Types and sources of biotic contamination in food.
- Biological hazards: Bacteria, viruses, parasites. Main foodborne diseases. Origin and prevention of mycotoxicosis.

3rd Section.- Food Hygiene in the production and manufacturing of food.

- Hygiene in primary production.
- Hygiene in establishments, equipment and work utensils: Design, maintenance, cleaning and disinfection, pest control, residues management, water control.
- Staff hygiene in food industry: Health status, personal care, culinary food handlers behavior.

2. Practical sessions

- **Practice nº 1.-.** Sessions in computer classroom: Evolution of epidemiological data of infections and food poisoning outbreaks. Knowledge of contamination sources and propagation system of outbreaks. Approach of hygienic control measures in food processes. Food hazard characterization. Control of antimicrobial residues in food. Parasites detection in food.
- **Practices nº 2, 3, 4 y 5. Food hazard characterization.** It will be developed in four sessions. Every group of students will be commissioned, at least, one study of abiotic contamination and another one of biotic contamination, focused on making a powerpoint presentation and afterwards discussing the cases with other students.
- **Practice nº 6.** Cleaning and disinfection in food industry. Water control in food industry.

4.4.Course planning and calendar

For further details concerning the timetable, classroom and further information regarding this course please refer to the website of the Faculty of Veterinary Medicine: <http://veterinaria.unizar.es/gradocta/>. This link will be updated at the beginning of each academic year.

4.5.Bibliography and recommended resources