

General information	
Academic subject	Hygiene and Safety of milk and eggs - FOOD SAFETY 1
Degree course	VETERINARY MEDICINE
Academic Year	2021-2022
European Credit Transfer and Accumulation System (ECTS)	3
Language	ITALIAN
Academic calendar (starting and ending date)	I Bimester
Attendance	Mandatory

Professor/ Lecturer	
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Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Microsoft Teams platform - Request for an appointment to be agreed in advance via email
Tutoring (time and day)	Tuesday: 10:30 - 12:30 - Thursday: 14:30 - 16:30 - Request for an appointment to be agreed in advance via email

Syllabus	
Learning Objectives	The course aims to provide scientific knowledge relating to health and hygiene requirements, hazards and methods of prevention and management thereof within milk, dairy product, and egg and egg-product supply chains. The course aims to analyze the general principles and requirements of European and national legislation on hygiene and safety in specific sectors and schedules educational visits to food production companies in order to transfer practical knowledge relating to the prevention and management of hazards, and to sanitation in animal origin supply chains of interest.
Course prerequisites	The student should have knowledge and skills relating to microbiology, pharmacology, toxicology, and the hygiene measures practiced on livestock farms.
Contents	<p>Introduction. EU Food Laws: general principles and requirements concerning food safety. Risk analysis methodologies according to the principles of the Codex Alimentarius. Pre-requisite programs, Good Hygiene Practices (GHP) and Good Manufacturing Practices (GMP). Hazard Analysis and Critical Control Point (HACCP) system and guidelines for its application.</p> <p>Milk and dairy products. European legislation for milk and milk products. Safety requirements for raw milk production. Hygiene on milk production holdings. Criteria for raw milk requirements concerning dairy products. Wrapping and packaging. Requirements for heat treatment. Labeling and identification marking. Milk and Milk Products: processing techniques. Risk assessment and management of milk and dairy products.</p> <p>Eggs and egg products. European legislation for eggs and egg products. Marketing standards for eggs. Quality characteristics of eggs. Requirements for establishments. Raw materials for the manufacture of egg products. Special hygiene requirements for the manufacture of egg products. Analytical specifications. Labeling and identification marking. Risk assessment and management of eggs and egg products.</p>
Books and bibliography	Cenci Goga – Ispezione e controllo degli alimenti. Point Veterinaire Italie

	EU Food Laws		
Additional materials	Lecture notes are recommended		
Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
75	26	25	24
ECTS			
3	2	1	/
Teaching strategy	The teaching strategy involves lectures held in the classroom with the aid of multimedia devices such as PCs, projectors, internet connections that allow viewing of PowerPoint files and educational videos/films. Practical activities include educational visits to food companies operating in the sectors of interest and laboratory exercises at the facilities of the Food Safety section. Students are divided into groups and followed individually, when performing the laboratory tests required on the course, by the course leader and collaborators. Considering the average number of students enrolled on the course, this will require at least 3 shifts for each laboratory exercise.		
Expected learning outcomes			
Knowledge and understanding on:	<ul style="list-style-type: none"> ○ Students need to know and understand the hygiene and safety requirements for milk and milk products, eggs, and egg products, the hazards and methods of prevention and management in the context of the animal origin supply chains of interest. Students need to know and understand the European and national legislative provisions on food safety. 		
Applying knowledge and understanding on:	<ul style="list-style-type: none"> ○ Students need to apply their knowledge of and understand safety and hygiene issues, prevention and management methods within the specific supply chains of animal origin and must know the main European and national legislative provisions on the safety of milk and milk products, eggs, and egg products. 		
Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ By the end of the course, students need to be able to acquire and interpret information and draw autonomous conclusions on issues related to food hygiene and safety, independently formulate a correct assessment of the critical issues of production processes and identify methods to ensure their management. Students need to make autonomous analyses concerning food safety. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ By the end of the course, students need to <i>be able to effectively discuss the main issues of food hygiene and safety within a multidisciplinary working group.</i> • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ By the end of the course, students need to acquire sufficient learning skills to deal with subsequent in-depth studies and / or updates on food hygiene and safety issues. 		
Assessment and feedback			
Methods of assessment	Verification of learning, at the end of the course, consists in an oral discussion of the topics of the course aimed at ascertaining achievement of the main educational		

	objectives of the course: (1) knowing the terminology used in food safety and being able to express oneself correctly; (2) knowing the European and national legislation on food safety and the related health-related parameters set by the legislation; (3) being able to analyze the criticalities of production processes and to correctly identify the criticalities of a process and the methods to ensure their management; (4) knowing the basic principles relating to food safety, traceability and labeling of food products.
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ Knowledge and understanding of the basic concepts of food hygiene and safety explained in the course. • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ Applying knowledge and understanding of the basic concepts for management of food hygiene and safety. • <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ Being able to formulate an opinion independently • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Being able to clearly explain the main topics discussed during the course • <i>Communication skills</i> <ul style="list-style-type: none"> ○ Being able to discuss the main issues of food hygiene and safety within a multidisciplinary working group • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Capacities to continue learning by providing access to advanced courses and training periods
Criteria for assessment and attribution of the final mark	Assessment and attribution of the final mark is graded on a scale from 0 to 30. The minimum pass mark at the oral exam is 18/30. The top mark is given where a student shows good knowledge of and a thorough understanding of the course content. The top mark with honours is reserved to students who show outstanding independence and excellence.
Additional information	