

Dipartimento di Medicina Veterinaria



General information			
Academic subject	FOOD SAFETY 1		
Degree course	Foods of animal origin safety and health – (LM86)		
Academic Year	2022/2023 – II year		
European Credit Transfer and Accumulation Syste		em (ECTS)	6 (5 + 1E)
Language	ITALIAN		
Academic calendar (starting and ending date)		I semester	
Attendance	Not mandatory		

Professor/ Lecturer		
Name and Surname	ANGELA DI PINTO – ANGELA DAMBROSIO	
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	S.P. 62 to Casamassima km 3, 70010 Valenzano (Ba)	
Virtual headquarters	Microsoft Teams platform (cod.: 54m83w9) - 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, fish and bivalve mollusks 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 and the hygiene measures practiced on livestock farms.
Contents	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. 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. Fishery products. European legislation for fish and fishery products. Sanitation standards for fishery products. Requirements for fresh fishery products. Requirements for fresh fishery products. Requirements for mechanically separated fishery products. Processing technologies and requirements for processed fishery products.



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	Wrapping and packing. Storage and transport. Labeling. Bivalve molluscs. European legislation for bivalve mollusks. Hygiene requirement applicable to production and harvest: recalls. General requirements for placing on the market. Sanitary rules for live bivalve molluscs. Transformation technologies	
	Wrapping and packing. Identification and labeling marking.	
Books and bibliography	Antonello Paparella, Maria Schirone, Pierina Visciano. Igiene nei processi alimentari. Progettazione della sicurezza degli alimenti. Hoepli, 2023.	
	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				
150	40		20	90
ECTS				
6	5		1	
Teaching strateg	3 Y	multimed of Powe education exercises facilities. performi collabora	ching strategy involves lectures held in the classed dia devices such as PCs, projectors, internet connection of the properties and educational videos/films. Practional visits to food companies operating in the sectors of the course and laboratory exercises at the Students are divided into groups and followeing the laboratory tests required on the course, by the stors. Considering the average number of students errequire at least 3 shifts for each laboratory exercise.	ons that allow viewing cal activities include of interest, classroom e Food Safety section d individually, when the course leader and
Expected learning	ng outcomes			
Knowledge and on:	understanding		Students need to know and understand the requirements for milk and milk products, fish and hazards and methods of prevention and management animal origin supply chains of interest. Students understand the European and national legislative prov	bivalve molluscs, the t in the context of the need to know and visions on food safety.
Applying knowle understanding o			Students need to apply their knowledge of and un hygiene issues, prevention and management metho supply chains of animal origin and must know the national legislative provisions on the safety of milk a and bivalve molluscs.	ds within the specific e main European and
Soft skills		• Com	Students need to be able to acquire and interpret is autonomous conclusions on issues related to food independently formulate a correct assessment of production processes and identify methods to ensure Students need to make autonomous analyses concern municating knowledge and understanding. Students need to be able to effectively discuss the hygiene and safety within a multidisciplinary working is	hygiene and safety, the critical issues of re their management. ling food safety.



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	Capacities to continue learning	
	0	Students need to acquire sufficient learning skills to deal with subsequent
		in-depth studies and / or updates on food hygiene and safety issues.

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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 the 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) know the European and national legislation on food safety and the related sanitary parameters set by the legislation; (3) be 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) know the
Evaluation criteria	 basic principles relating to food safety, traceability and labeling of food products. Knowledge and understanding Knowledge and understanding the basic concepts of food hygiene and safety explained in the course. Applying knowledge and understanding Applying knowledge and understanding of the basic concepts for management of food hygiene and safety. Autonomy of judgment Being able to formulate an opinion independently Communicating knowledge and understanding Being able to clearly explain the main topics discussed during the course Communication skills Being able to discuss the main issues of food hygiene and safety within a multidisciplinary working group Capacities to continue learning Capacities to continue learning 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 vote for the oral exam is 18/30. The maximal grade is reached if the student proves a knowledge and a thorough understanding of the course content. The maximal grade with honours is reserved to the students who show special independence and excellence.
Additional information	·