

Dipartimento di Medicina Veterinaria



General information				
Academic subject	FOOD BORNE ZOONOSES and EPIDEMIOLOGY			
Degree course	Safety and Health of Food of Animal Origin			
Academic Year	2021-22			
European Credit Transfer and Accumulation System (E		tem (ECTS)	8	
Language	Italian			
Academic calendar (starting and ending date) S		Second sem	ester	
Attendance	Not mandatory			

Professor		
Name and Surname	Vito Martella	
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Telephone	080 4679805	
Department and address	Veterinary Medicine Campus – Valenzano (BA)	
Virtual headquarters	Teams code: d6yu8n9 - Attività tutoria: zoonosi ed epidemiologia - LM86	
Tutoring (time and day)	Tuesday from 14.00 to 16:00; Wednesday from 14:30 to 16:30	
	In presence or in remotely, upon appointment.	
Professor of Epidemiology		
Name and Surname	Alessandra Cavalli	
E-mail	alessandra.cavalli@uniba.it	
Telephone	080 4679833	
Department and address	Veterinary Medicine Campus – Valenzano (BA)	
Virtual headquarters	Teams code: d6yu8n9 - Attività tutoria: zoonosi ed epidemiologia - LM86	
Tutoring (time and day)	Tuesday from 14.00 to 16:00; Wednesday from 14:30 to 16:30	
	In presence or in remotely, by appointment	
Additional materials		
Syllabus		
Learning Objectives	Knowledge of the main zoonoses sustained by viral, bacterial and unconventional	
	agents. Acquisition of the principles and methods of both basic and applied	
	epidemiology to infectious diseases of farm animals, with particular attention to	
	those provided for by the Veterinary Police Regulations and zoonoses. General	
	notions of prevention, control and eradication of infectious diseases of animals with	
	particular reference to prophylaxis measures aimed at promoting human health	
Course prerequisites	The student must have basic knowledge of biology and general microbiology.	
Contents	Foodborne zoonoses	
	Introduction to the course: training objectives and teaching methodologies. General:	
	historical notes, definitions. The One Health Theory. Health agencies and	
	organizations. Zoonoses sustained by viral agents: calicivirus, rotavirus, astrovirus,	
	picornavirus, viral hepatitis, emerging viruses. Zoonoses sustained by bacterial	
	agents: tuberculosis, brucellosis, listeriosis, salmonellosis, campylobacteriosis,	
	anthrax, coxiellosis, infections with verocytotoxic Escherichia coli, vibriosis,	
	yersiniosis. Zoonoses sustained by unconventional agents: TSE. European legislation on animal health (EU Regulation 2016/429)	
	Epidemiology	
	Introduction to the course: training objectives and teaching methodologies. Notes	
	on the history of epidemiology, definition and purpose of the discipline. The	
	concepts of health and disease. The correlation between animal welfare and human	
	health.	
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Books and bibliography	Foodborne zoonoses		
	Farina -Scatozza "Trattato di Malattie Infettive degli Animali Domestici", 2006 UTET		
	Sito Web CDC (inglese) http://www.cdc.gov/DiseasesConditions/		
	Epicentro, il portale dell'epidemiologia per la sanit pubblica (italiano)		
	http://www.epicentro.iss.it/default.asp		
	Eur-lex: https://eur-lex.europa.eu/legal-		
	content/IT/TXT/HTML/?uri=LEGISSUM:3005 2		
	Materiale didattico utilizzato nel corso delle lezioni frontali (powerpoint)		
	Epidemiology		
	M. Thrusfield (2007), Veterinary epidemiology, Blackwell Science Ltd, Oxford, III		
	edition (inglese).		
	Bottarelli, Ostanello. Epidemiologia, 2011, edizioni Edagricole.		
	Appunti di epidemiologia veterinaria, a cura del Prof. E. Bottarelli (Universit di		
	Medicina Veterinaria di Parma). (htpp://www.unipr.it/~bottarel/epi/)		
	Office international des Epizooties http://www.oie.int/ (inglese, francese, spagnolo)		
	Materiale didattico utilizzato nel corso delle lezioni frontali (powerpoint e dvd		
	illustrativi)		
Additional materials			

Work schedule				
Total	Lectures		Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours				
200	84		25	91
ECTS				
8	7		1	
Teaching strategy		with more visiting p 25 hours on the diclassroor internet films. The pdf form facilities people a covered average	rese will be based on 84 hours of classic, but also innovalments of self-assessment of learning, co-teaching less or of laboratory training will be carried out to acquire skingnosis and study of infectious diseases. Lectures take mor remotely with the help of multimedia devices succonnections that allow viewing of PowerPoint files and e PowerPoint slides will, from time to time, be made a at. Practical activities include laboratory exercises that of the Infectious Diseases section. Students are divided and are followed individually, in the execution of the laboratory exercise, by the subject's owners and collaboration of students enrolled in the course, this didactication of the hours of exercises in shifts.	ons with foreign groups. In addition, ills and competences a place in the has PCs, projectors, deducational videos / vailable to students in take place at the dinto groups of 2-5 coratory tests tors. Considering the
Expected learning	goutcomes			
Knowledge and u	nderstanding	Learn about foodborne zoonotic diseases		
on:		 Know how infectious diseases are transmitted and controlled 		itrolled
		0	Knowledge of the health system and regulatory bases	
Applying knowled	_		O Understanding the risks of transmission of zoonotic diseases in differen	
understanding on	n:	foods		
			Knowing and being able to identify and properly app the zoonotic risk in food	ly methods to reduce
		0	Understanding and ability to extract relevant informa	tion from texts, news



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	and alerts
Soft skills	 Making informed judgments and choices Ability to analyze the operational criticalities of a process Ability to independently investigate topics of professional interest Ability to critically use notions and data Ability to propose solutions in problematic situations Communicating knowledge and understanding Ability to adopt different linguistic registers, including the technical-scientific one, to adequately communicate experimental results Ability to work in a team, adopting adequate communication and interaction strategies Capacities to continue learning Ability to understand and critically evaluate the scientific literature

Methods of assessment	Verification of the results achieved will be conducted: - during the course, through flip teaching sessions in which the student's autonomy of judgment and his ability to exploit previously learned concepts will be assessed at the end of the course, through the final exam which will ascertain the knowledge and understanding of the topics covered by means of questions aimed at ascertaining the ability to communicate and apply the knowledge acquired during the lessons.		
Evaluation criteria	 Knowledge and understanding Ability to express the acquired knowledge in an organic and in-depth way Applying knowledge and understanding Ability to make links between different disciplines and provide appropriate examples Autonomy of judgment o Ability to analyze, synthesize and evaluate Communication skills Capacity and clarity of presentation Expressive appropriateness, with particular reference to specialist terminology Capacities to continue learning 		
Criteria for assessment and attribution of the final mark	Ability to rework knowledge and transfer it to new and different situations. The evaluation system includes an oral exam on topics covered by the program. A the request of the students, a written test for the part of Epidemiology can b carried out. The final evaluation, expressed out of thirty, will be considered passe with a grade equal to or greater than 18 and will take into consideration not only th accuracy of the answer but also the communication skills, clarity of presentation disciplinary competence and the level of detail		
Additional information			