General information	
Academic subject	**FOOD BORNE ZOONOSES AND EPIDEMIOLOGY**
Degree course	Foods of animal origin safety and health - (LM86)
Academic Year	2022/2023 – I year
European Credit Transfer and Accumulation System (ECTS)	7 + 1E
Language	Italian
Academic calendar (starting and ending date)	II semester
Attendance	not mandatory

Professor	
Name and Surname	Vito Martella
E-mail	vito.martella@uniba.it
Telephone	080 4679805
Department and address	*Campus of Veterinary Medicine,* *S.P. 62 to Casamassima km 3, 70010 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	*Campus of Veterinary Medicine,* *S.P. 62 to Casamassima km 3, 70010 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. Legislative bases. 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.
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	The course will be based on 84 hours of classic, but also innovative frontal lessons with moments of self-assessment of learning, co-teaching lessons with foreign visiting professors, flipped classrooms, elaboration of works in groups. In addition, 25 hours of laboratory training will be carried out to acquire skills and competences on the diagnosis and study of infectious diseases. Lectures take place in the classroom or remotely with the help of multimedia devices such as PCs, projectors, internet connections that allow viewing of PowerPoint files and educational videos / films. The PowerPoint slides will, from time to time, be made available to students in pdf format. Practical activities include laboratory exercises that take place at the facilities of the Infectious Diseases section. Students are divided into groups of 2-5 people and are followed individually, in the execution of the laboratory tests covered by the exercise, by the subject's owners and collaborators. Considering the average number of students enrolled in the course, this didactic need will require the replication of the hours of exercises in shifts.		
Expected learning outcomes			
Knowledge and understanding on:	○ Learn about foodborne zoonotic diseases ○ Know how infectious diseases are transmitted and controlled ○ Knowledge of the health system and regulatory bases		
Applying knowledge and understanding on:	○ Understanding the risks of transmission of zoonotic diseases in different foods ○ Knowing and being able to identify and properly apply methods to reduce		

U.O. Didattica e servizi agli studenti
Strada prov.le 62 per Casamassima, km. 3,00
70010 Valenzano (Bari) - Italy
Tel. (+39) 080 5443944-41-46 • fax (+39) 080 5443939
didattica.veterinaria@uniba.it

	the zoonotic risk in food ○ Understanding and ability to extract relevant information from texts, news and alerts
Soft skills	• *Making informed judgments and choices* ○ Ability to analyse 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

Assessment and feedback	
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 analyse, synthesize and evaluate* • *Communication skills* ○ Capacity and clarity of presentation ○ Expressive appropriateness, with particular reference to specialist terminology • *Capacities to continue learning* ○ Ability to rework knowledge and transfer it to new and different situations
Criteria for assessment and attribution of the final mark	The evaluation system includes an oral exam on topics covered by the program. At the request of the students, a written test for the part of Epidemiology can be carried out. The final evaluation, expressed out of thirty, will be considered passed with a grade equal to or greater than 18 and will take into consideration not only the accuracy of the answer but also the communication skills, clarity of presentation, disciplinary competence and the level of detail
Additional information	

U.O. Didattica e servizi agli studenti
Strada prov.le 62 per Casamassima, km. 3,00
70010 Valenzano (Bari) - Italy
Tel. (+39) 080 5443944-41-46 • fax (+39) 080 5443939
didattica.veterinaria@uniba.it