

General information	
Academic subject	Health management of farms, kennels, catteries and shelters Integrated course of Biosafety and Health Management
Degree course	Animal Science
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	8
Language	Italian
Academic calendar (starting and ending date)	I semester
Attendance	Mandatory

Professor/ Lecturer	
Name and Surname	Marialaura Corrente
E-mail	marialaura.corrente@uniba.it
Telephone	+390804679833
Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Microsoft Teams- Team Gestione Sanitaria degli allevamenti, canili, gattili e rifugi 2021-22 Code:ozxa7vs
Tutoring (time and day)	Appointment by mail Tuesday, Thursday Friday 2:30 pm – 4:30 pm Every day on Microsoft Teams (ask the code to the teacher by mail)

Syllabus	
Learning Objectives	The students will learn the basic notions of hygiene, biosecurity and epidemiology, of infectious diseases of animals, zoonoses, and preventive rules that need to be adopted
Course prerequisites	General Pathology and Pathophysiology, Parasitology, Mycology and Management of Synanthropic Animals. Basic knowledge in the field of microbiology, and knowledge of pathological processes at the cellular and tissue levels. These skills are prerequisites for the study and understanding of infectious animal diseases.
Contents	Lectures: Hygiene principles: Evolution of the hygiene concept throughout history. Environmental, urban and zootechnical hygiene. World Health Organisation: objectives and organisation. Organisation of the Veterinary Health System at international and national level. Animal identification systems. Notifiable animal infectious diseases. Organisation of prophylaxis plans. Evaluation of costs and benefits in a prophylaxis plan (vaccination <i>versus</i> eradication). Stamping out and examples of application. Conditions that promote infections. Sources and reservoirs of infections. Acute, sub-acute, persistent and latent infections. Routes of entry and elimination of pathogens. Spreading of infectious diseases. Epidemics, pandemics, endemic and sporadic diseases. Diagnostic tests: sensitivity and specificity. Kennel health management. Definition of kennels and shelters. Biosafety in kennels. Catteries health management. Definition of catteries and feline colonies. Biosafety. Emerging infectious diseases in livestock animals; infectious diseases subjected to national eradication plans. Farm health management. Biosafety. Bovine mastitis.

	<p>Biosafety and hygiene of milking. Abortions caused by infectious agents in farm animals. Prevention. Zoonoses. Drug resistance. Prudent use of antibiotics. Practical activities: Overview on the site of Office International des Epizooties. Use of WAHIS platform. Excel exercises for descriptive epidemiology. Diagnostic tests of the infectious diseases of animals. Field activities: bovine herds, kennels, catteries and shelters.</p>
Books and bibliography	<p>Poli, Cocilovo. "Microbiologia e Immunologia Veterinaria", II edizione, 2005, Ed. UTET. Farina -Scatozza "Trattato di Malattie Infettive degli Animali Domestici", 2006 Ed. UTET. Bottarelli, Ostanello. "Epidemiologia", 2011, edizioni Edagricole. Barbuti, Fara, Giammanco. "Igiene, Medicina Preventiva, Sanità Pubblica". 2014 EdISES. Dispensa di epidemiologia veterinaria a cura del prof. Ezio Bottarelli, disponibile on line (www.quadernodiepidemiologia.it). Office International des Epizooties site (www.oie.int), English, French and Spanish</p>
Additional materials	<p>Slides of the lessons (on Microsoft Teams). Other additional sites will be suggested by the teacher during the course</p>

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
200	70	25	105
ECTS			
8	7	1	
Teaching strategy	<p>The course will be carried out in an exclusively frontal, blended or remote mode, according to the guidelines approved by the University and the competent bodies. Training activities will be held both in the Campus and in Private and Public bodies. At the beginning and during the Course several tests will be administered for self-evaluation. Other interactive methods such as Kahoot! will be utilized. Practical activities will be done in the University and in public and private facilities</p>		
Expected learning outcomes			
Knowledge and understanding on:	<p>The student will be able to:</p> <ul style="list-style-type: none"> ○ Acquire the essential concepts of health management and a preventive approach to understand the main infectious diseases of animals, with particular attention to zoonoses and notifiable animal diseases 		
Applying knowledge and understanding on:	<p>At the end of the Course the student will be able to have:</p> <ul style="list-style-type: none"> ○ Autonomy in the health management of farms, kennels and catteries and application of biosecurity rules; 		
Soft skills	<ul style="list-style-type: none"> ● Making informed judgments and choices <ul style="list-style-type: none"> ○ Autonomy in the health management of farms, kennels and catteries ○ Autonomy in interpretation of the main diagnostic techniques and regulation for the prevention of infectious diseases ● Communicating knowledge and understanding 		

	<ul style="list-style-type: none"> ○ Specific communication skills with people, breeders and specialized technical consultants ○ Human skills ● Capacities to continue learning <ul style="list-style-type: none"> ○ Autonomy in the use of databases and software
Assessment and feedback	
Methods of assessment	The evaluation of knowledge takes place through a written or oral test. The written or oral exam will define the exam of "Biosafety and health management (13 ECTS)" together with the test of "Healthcare management of poultry and rabbit farms and wildlife". The student will be admitted to the exam of Health Management of farms, kennels, catteries and shelters after the exam of Healthcare management of poultry and rabbit farms and wildlife
Evaluation criteria	<ul style="list-style-type: none"> ● Knowledge and understanding <ul style="list-style-type: none"> ○ Evaluation of the acquired knowledges ● Applying knowledge and understanding <ul style="list-style-type: none"> ○ Evaluation of the acquired skills ● Autonomy of judgment <ul style="list-style-type: none"> ○ Evaluation of the acquired autonomy related to the use of knowledges ● Communicating knowledge and understanding <ul style="list-style-type: none"> ○ Evaluation of the use of a proper scientific language and the quality of exposure ● Capacities to continue learning <ul style="list-style-type: none"> ○ Evaluation of the ability to critically use additional information.
Criteria for assessment and attribution of the final mark	The final grade is awarded out of thirty. The exam is passed when the grade is greater than or equal to 18/30. The final grade is calculated as a weighted mean between the grades of each subject.
Additional information	
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