

**ACADEMIC YEAR 2023/2024**

<b>General information</b>	
Academic subject	<b>HEALTH MANAGEMENT OF FARMS, KENNELS, CATTERIES AND SHELTERS</b> (integrated exam of BIOSECURITY AND SANITARY MANAGEMENT)
Degree course	Animal Science L38
Academic Year	III year
European Credit Transfer and Accumulation System (ECTS)	8
Language	Italian
Academic calendar (starting and ending date)	I Semester: 02/10/2023 – 26/01/2024
Attendance	Mandatory

<b>Professor/ Lecturer</b>	
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Department and address	Campus of Veterinary Medicine, S.P. 62 to Casamassima km 3, 70010 Valenzano (BA)
Virtual headquarters	Microsoft Teams platform if necessary (Code: ozxa7vs)
Tutoring (time and day)	Tuesday-Friday 14:30pm – 16:30. Appointment by mail.

<b>Syllabus</b>	
<b>Learning Objectives</b>	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
<b>Course prerequisites</b>	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.
<b>Contents</b>	<p><b>Lectures:</b></p> <p>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. Zoonosis. Conditions that promote the onset and the spreading of infectious diseases. Transmission of infectious diseases. infectious diseases in livestock with health and economic impact. Prophylaxis measures in veterinary medicine. Frequency of diseases (Epidemics, pandemics, endemic and sporadic diseases). Reproductive ratio; herd immunity.</p> <p>Diagnostic tests: sensitivity and specificity.</p> <p> kennels and catteries health management. Biosafety measures. Definition of kennels, shelters, catteries and feline colonies.</p> <p>Infectious and contagious diseases of dogs and cats.</p> <p>Biosafety and management of herds.</p> <p>Drug resistance. Prudent use of antibiotics.</p> <p>Preventive measures as an alternative to antimicrobials.</p>

	<p><b>Practical activities:</b> Overview on the site of World Animal Health Organisation (WOAH). 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>
<b>Books and bibliography</b>	<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. WOAH site (<a href="http://www.woah.org">www.woah.org</a>)</p>
<b>Additional materials</b>	<p>Slides of the lessons (on Microsoft teams). Other additional sites will be suggested by the teachers during the Course</p>

<b>Work schedule</b>			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
<b>Hours</b>			
<b>200</b>	<b>56</b>	<b>10</b>	<b>134</b>
<b>ECTS</b>			
<b>8</b>	<b>7</b>	<b>1</b>	
<b>Teaching strategy</b>	<p>The course will be carried out in a frontal mode. 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>		
<b>Expected learning outcomes</b>			
<b>Knowledge and understanding on:</b>	<p>The student will be able to:</p> <ul style="list-style-type: none"> <li>○ 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</li> </ul>		
<b>Applying knowledge and understanding on:</b>	<p>At the end of the Course the student will be able to have:</p> <ul style="list-style-type: none"> <li>○ Autonomy in the health management of farms, kennels and catteries and application of biosecurity rules;</li> </ul>		
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• Making informed judgments and choices <ul style="list-style-type: none"> <li>○ Autonomy in the health management of farms, kennels and catteries</li> <li>○ Autonomy in interpretation of the main diagnostic techniques and regulation for the prevention of infectious diseases</li> </ul> </li> <li>• Communicating knowledge and understanding <ul style="list-style-type: none"> <li>○ Specific communication skills with people, breeders and specialized technical consultants</li> <li>○ Human skills</li> </ul> </li> <li>• Capacities to continue learning <ul style="list-style-type: none"> <li>○ Autonomy in the use of databases and software</li> </ul> </li> </ul>		

<b>Assessment and feedback</b>	
Methods of assessment	<p>The evaluation of knowledge takes place through:</p> <ul style="list-style-type: none"> <li>- during the course, a written test with several questions, to verify the knowledge of the previously learned concepts;</li> <li>- at the end of the course, through the final exam which will ascertain the knowledge and understanding of the topics covered and the use of a proper scientific language.</li> </ul> <p>The exam is a part of the integrated exam "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.</p>
Evaluation criteria	<ul style="list-style-type: none"> <li>• Knowledge and understanding <ul style="list-style-type: none"> <li>○ Evaluation of the acquired knowledges</li> </ul> </li> <li>• Applying knowledge and understanding <ul style="list-style-type: none"> <li>○ Evaluation of the acquired skills</li> </ul> </li> <li>• Autonomy of judgment <ul style="list-style-type: none"> <li>○ Evaluation of the acquired autonomy related to the use of knowledges</li> </ul> </li> <li>• Communicating knowledge and understanding <ul style="list-style-type: none"> <li>○ Evaluation of the use of a proper scientific language and the quality of exposure</li> </ul> </li> <li>• Communication skills <ul style="list-style-type: none"> <li>○ Evaluation of the quality of the exposure and mastery of technical/scientific language</li> </ul> </li> <li>• Capacities to continue learning <ul style="list-style-type: none"> <li>○ Evaluation of the ability to critically use additional information.</li> </ul> </li> </ul>
Criteria for assessment and attribution of the final mark	<p>The final grade is awarded out of thirty through an oral exam. The exam is passed when the grade is greater than or equal to 18/30. The final grade is calculated as a mean between the grades of each subject.</p>
<b>Additional information</b>	
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