

General information	
Academic subject	<b>Necropsy technique - Special Pathology</b>
Degree course	Veterinary Medicine
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	3
Language	Italian
Academic calendar (starting and ending date)	IV two months
Attendance	Mandatory

Professor/ Lecturer	
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Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Virtual Class on Microsoft Teams platform
Tutoring (time and day)	Tuesday and Thursday 10.30-12.30 and Wednesday 15.00-17.00 (in presence) Every day by appointment (on Teams platform)

Syllabus	
<b>Learning Objectives</b>	The student must be able to carry out necropsies according to the biosecurity rules provided (in the field and in the sector room) in order to be able to identify, after differential diagnosis, the cause of death and be able to draw up a report using a correct scientific language
<b>Course prerequisites</b>	Special Pathology Module 1, 2, 3; Parasitology exam, Infectious Diseases 1 and 2 exam; The student must have acquired knowledge of the lesions found on organs and any specific cause of death (infectious, parasitic, organ dysfunction, traumatic, metabolic)
<b>Contents</b>	The contents provided listed below refer to the following areas: <ul style="list-style-type: none"> <li>– Clinical Sciences of companion animals (including horses and exotics);</li> <li>– Clinical sciences in food-producing animals (including animal husbandry and herd medicine);</li> <li>– Professional training.</li> </ul> Course program: <ul style="list-style-type: none"> <li>– Identification and signaling of the corpse.</li> <li>– Signs of death and cadaveric phenomena.</li> <li>– External inspection of the corpse.</li> <li>– Section of the corpse, extraction and examination of the viscera.</li> <li>– Description and interpretation of necropsy findings.</li> <li>– Morphological alterations and their causes.</li> <li>– Pathological processes and their causes.</li> <li>– Taking samples for laboratory investigations.</li> <li>– Biosecurity and disposal in the sector room</li> </ul>
<b>Books and bibliography</b>	<ul style="list-style-type: none"> <li>• E. Taccini, G. Rossi, C. Gili, <i>Tecnica Autoptica e Diagnostica Cadaverica</i>, Milano, Poletto editore. 2006.</li> <li>• S. Biavati, <i>Tecnica delle autopsie e diagnostica cadaverica</i>, Bologna, Girardi, 1999.</li> </ul>

	<ul style="list-style-type: none"> <li>• P.C. Stromberg, D.R. Rissi, C.S.L. Barros, . B.H. Williams, Gross description and interpretation in anatomic veterinary pathology, Davis/Thompson Foundation, 2019.</li> <li>• P.S. Marcato, Patologia Sistemática Veterinaria, Bologna, Edagricole, 2002.</li> <li>• Appunti delle lezioni</li> </ul>
<b>Additional materials</b>	<ul style="list-style-type: none"> <li>• Donald J. Meuten, Tumors in Domestic Animals (5<sup>th</sup> edition), Wiley Blackwell, 2017.</li> <li>• R. Munro, H.M.C. Munro, Animal Abuse and Unlawful Killing, Saunders Elsevier, 2008.</li> <li>• M.D. Merck, Veterinary forensics : animal cruelty investigations (2<sup>nd</sup> edition), Wilwy-Blackwell, 2013.</li> <li>• D. Bailey, Practical veterinary forensics, CABI, 2016.</li> <li>• J.W. Brooks, Veterinary Forensic Pathology, Vol 1-2, Springer, 2018.</li> <li>• E. Rogers, A.W. Stern, Veterinary Forensics Investigation, Evidence Collection, and Expert Testimony, CRC Press LLC, 2018</li> <li>• J. Dix, Color Atlas of Forensic Pathology, CRC Press LLC, 2000.</li> </ul>

<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>			
75	26	25	24
<b>ECTS</b>			
3	2	1	
<b>Teaching strategy</b>			
<p>The theoretical part of the course is not delivered in e-learning mode, it is carried out in the classroom equipped with multimedia tools, using power-point slides and videos. The practical lessons are carried out in technology enhanced mode in the Sector Room of the Pathological Anatomy Section located in the "Vinci" Pavilion appropriately equipped with necropsy tables, a streaming service in order to allow students to follow the classroom exercises of the fourth year and from home. Students are divided into small groups of a maximum of 8-10 people (depending on the assigned table) and are supervised by the subject holder. Each student must individually carry out the necropsy object of the exercise and discuss with the teacher and, subsequently, in front of all their course colleagues, the last day of class of the week sharing the cases studied. Furthermore, the students, divided into groups of up to 3 people, carry out seminars on specific topics to be presented to their colleagues with support power-points, under the supervision of the teacher.</p>			
<b>Expected learning outcomes</b>			
<b>Knowledge and understanding on:</b>	<ul style="list-style-type: none"> <li>○ Techniques needed to perform a necropsy</li> <li>○ Collateral tests useful for a correct diagnosis</li> <li>○ Sanitation and biosecurity requirements according to current regulations in order to carry out the activity safely</li> <li>○ Know the postmortal phenomena and their causes</li> <li>○ Knows the useful tools for a necropsy</li> <li>○ Knows the possible causes of death (external and internal injuries)</li> </ul>		
<b>Applying knowledge and understanding on:</b>	<ul style="list-style-type: none"> <li>○ Carry out a necropsy using the most suitable tools and techniques</li> <li>○ Carry out a differential diagnosis on the possible causes of death by relating them to the lesions found</li> <li>○ Dispose of the material according to law</li> </ul>		

	<ul style="list-style-type: none"> <li>○ Draw up a report with related cause of death</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>○ Necropsies</li> <li>○ Study and comparison of the cases observed during the exercises</li> <li>○ In-depth study through seminars</li> </ul> </li> <li>• Communicating knowledge and understanding <ul style="list-style-type: none"> <li>○ Exposure in the classroom of the reports drawn up after the necropsy carried out during the exercises</li> <li>○ Presentation of the seminars (with the support of power-points); students engaged in this activity also answer questions from their fellow auditors</li> </ul> </li> <li>• Capacities to continue learning <ul style="list-style-type: none"> <li>○ Research and self-study prepares the student to be able to extend their study to topics and topics not covered during the course.</li> </ul> </li> </ul>
<b>Assessment and feedback</b>	
Methods of assessment	The student, after passing the Special Pathology Module 1, 2, and 3, will have to take a practical test lasting 2 hours, performing a necropsy in a group and then proposing the possible causes of death; This try will be evaluated as suitable or unsuitable. After passing this test, an oral interview will be held on topics related to the program.
Evaluation criteria	<ul style="list-style-type: none"> <li>• Knowledge and understanding <ul style="list-style-type: none"> <li>○ Ability to carry out a necropsy independently thanks to the knowledge of the tools that can be used</li> <li>○ Knowledge of the correct steps to carry out a necropsy</li> <li>○ Knowledge of the support tools useful to define a correct diagnosis of death (histopathological and laboratory tests)</li> </ul> </li> <li>• Applying knowledge and understanding <ul style="list-style-type: none"> <li>○ Ability to use the tools available critically</li> </ul> </li> <li>• Autonomy of judgment <ul style="list-style-type: none"> <li>○ Carry out a correct epicrisis</li> <li>○ Draw up a report correctly with a critical sense and reasoning</li> </ul> </li> <li>• Communicating knowledge and understanding <ul style="list-style-type: none"> <li>○ Competence in using the correct scientific terms in presenting the results obtained during the autopsy</li> <li>○ Quality of exposure</li> </ul> </li> <li>• Communication skills <ul style="list-style-type: none"> <li>○ Ability to work in a team</li> <li>○ Quality of exposure</li> </ul> </li> <li>• Capacities to continue learning <ul style="list-style-type: none"> <li>○ Ability to propose possible causes of death drawing inspiration from in-depth topics individually or from other disciplines</li> </ul> </li> </ul>
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. Passing all modules, by means of a weighted average, will assign the final grade to the candidate
<b>Additional information</b>	