

<b>General information</b>	
Academic subject	<b>Anatomy of Domestic Animals 2</b>
Degree course	Veterinary Medicine
Academic Year	I
European Credit Transfer and Accumulation System (ECTS)	6
Language	Italian
Academic calendar (starting and ending date)	IV bimester
Attendance	Mandatory

<b>Professor/ Lecturer</b>	
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Virtual headquarters	chemcjl
Tutoring (time and day)	Tuesday 13,30-15,30 - Wednesday and Thursday 11,30-13,30

<b>Syllabus</b>	
<b>Learning Objectives</b>	The aim of the course is to provide a comparative macro- and microscopic description of the organs of animals of zootechnical interest indicated in the program, as well as of dogs and cats. The discussion of the various systems is dealt relatively to some aspects on functionality and application in clinical practice.
<b>Course prerequisites</b>	ANATOMY I: The student must have acquired knowledge and skills related to the study of cytology, histology and anatomy of the locomotor system.
<b>Contents</b>	<p>Introduction to the course: Body cavities, serosa, morpho-structural organization of the viscera.</p> <p>Morpho-structural organization of the viscera and serosa.</p> <p>Digestive System: Mouth, Pharynx, Esophagus, Stomach, Intestine, Liver, Pancreas.</p> <p>Respiratory system: Nasal cavities, Larynx, Trachea, Bronchi, Lungs, Pleura.</p> <p>Blood Circulatory System: Heart, Arteries, Veins.</p> <p>Lymphatic System: Vessels, Lymph Nodes, Hemolymph Nodes, Spleen, Thymus, Bone Marrow.</p> <p>Urinary system: kidneys, ureter, bladder, urethra.</p> <p>Male Genital System: Testicles, Epididymis, Ductus deferens, Spermatic Funiculus, Attached Glands, Penis.</p> <p>Female Genital System: Ovary, Tube uterine, Uterus, Vagina, Vulva and clitoris.</p> <p>Endocrine system: Pituitary, Epiphysis, Thyroid, Parathyroid, Adrenal glands, Pancreas.</p> <p>Central Nervous System: Spinal cord and Brain.</p> <p>Peripheral Nervous System. Spinal nerves and Cranial nerves. Vegetative nervous system.</p> <p>Sense Organs: Sight, Hearing, Smell and Taste. Outline of avian anatomy.</p> <p>Macro and microscopic exercises of the digestive, respiratory, circulatory, urinary, genital and brain systems.</p>
<b>Books and bibliography</b>	<p>R. Barone: Anatomia Comparata degli Animali Domestici – Edagricole</p> <p>Konig-Liebich, Anatomia dei mammiferi domestici, Piccin.</p> <p>G.V. Pelagalli, V. Botte: Anatomia Veterinaria Sistemica e Comparata – Edi Ermes</p>

	H.D. Dellmann, E.M. Brown, Istologia e anatomia microscopica veterinaria, Ed. Grasso. T. Zavanella, Anatomia Microscopica Veterinaria, Antonio Delfino Editore. P. Popesko, Atlas of Topographical Anatomy of the Domestic Animals, W.B. Saunders Comp., Phyland., London
<b>Additional materials</b>	Notes from the lessons and slides projected during the lessons (available on the google drive platform)

<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>			
150	40	50	60
<b>ECTS</b>			
6	4	2	
<b>Teaching strategy</b>			
<p>The theoretical part of the course takes place in classrooms equipped with multimedia tools such as pc, projector, internet connection, using power point. The practical part takes place in the practice room of the anatomy section of the Vinci building, appropriately equipped. Students are divided into small groups of a maximum of 5-6 people and are followed by the teacher and assistants. Each student is asked to individually study the different organs and to discuss them with the teacher or assistants.</p> <p>During the course theoretical and practical tests of the learning status are carried out. The course is not delivered in e-learning mode.</p>			
<b>Expected learning outcomes</b>			
<b>Knowledge and understanding on:</b>	<p>The course will allow the student to acquire basic knowledge relating to:</p> <ul style="list-style-type: none"> <li>○ morphology and microscopic structure of the organs of animals of zotechnical interest, of dogs and cats and of birds.</li> </ul>		
<b>Applying knowledge and understanding on:</b>	<p>Recognition of the different animal organs</p> <ul style="list-style-type: none"> <li>○ Structural knowledge of the viscera</li> <li>○ Distinction of the differential characters of the same organs but of different species of domestic animals</li> <li>○ ability to apply anatomical knowledge for a valid practical support to the study of other disciplines.</li> </ul>		
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• Autonomy of judgment <ul style="list-style-type: none"> <li>○ At the end of the course the student must be able to correctly identify the organs belonging to different animal species</li> </ul> </li> <li>• Communication skills <ul style="list-style-type: none"> <li>○ The student must master the anatomical terminology by communicating what he has learned, during the exercises, any ongoing tests and in continuous interaction with colleagues and teachers.</li> </ul> </li> </ul> <p>Ability to learn independently</p> <ul style="list-style-type: none"> <li>○ The student will have to deepen what was taught during the theoretical lessons, discussing with colleagues, during group exercises, followed by the teacher. know how to apply the a forementioned knowledge to subsequent physiological, anatomo-pathological, clinical, inspection-health and professional studies in general</li> <li>○ The learning tools provided will allow you to independently continue future practical activities applied to the disciplines of the following years</li> </ul>		

	such as physiology, pathology, clinics and veterinary inspection.
<b>Assessment and feedback</b>	
Methods of assessment	<p>Knowledge will be checked through ongoing tests (optional) assessed with a judgment (which will be considered at the time of the final exam grade expressed out of thirty) and a final oral exam which will be organized as follows:</p> <ul style="list-style-type: none"> <li>○ macroscopic recognition and description of the organs present on the anatomical table, related to the study program;</li> <li>○ observation under an optical microscope and microscopic description of the different tissues of the section, as well as recognition of the organ subjected to vision</li> </ul>
Evaluation criteria	<p>Knowledge and understanding:</p> <ul style="list-style-type: none"> <li>○ the student must be able to recognize the preparation that is submitted to him under the optical microscope.</li> <li>○ Must be able to correctly describe the macroscopic (shape, surfaces, margins) and microscopic (tunic or parenchyma structure) elements of the main organs under study.</li> </ul> <p>Applied knowledge and understanding:</p> <ul style="list-style-type: none"> <li>○ Ability to recognize animal organs, specifying in particular which animal they belong to</li> </ul> <p>Autonomy of judgment:</p> <ul style="list-style-type: none"> <li>○ Critical reasoning skills for structural and species distinction.</li> </ul> <p>Communication skills:</p> <ul style="list-style-type: none"> <li>○ The student must demonstrate that he is able to correctly use the terminology used in the morphological sciences.</li> </ul> <p>Ability to learn:</p> <ul style="list-style-type: none"> <li>○ Ability to correctly set the description of anatomical structures not treated during the teaching course.</li> </ul>
Criteria for assessment and attribution of the final mark	The final grade for this course will be deducted from the overall assessment of the three tests described, taking into account any non-attendance made during the course, and from the outcome of the Topographic Anatomy module according to a weighted average, expressed in thirty. .
<b>Additional information</b>	