General information	
Academic subject	**APPLIED ANATOMY** integrated module of the **SURGICAL CLINIC 2**
Degree course	Veterinary Medicine
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	2
Language	Italian
Academic calendar (starting and ending date)	II-III Bimester
Attendance	Mandatory

Professor/ Lecturer	
Name and Surname	Gianluca Ventriglia
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Telephone	0805443902
Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Microsoft teams Applied anatomy team code: hoyzab4
Tutoring (time and day)	10.00-12.00 Tuesday; 14.30-17.00 thursday

Syllabus	
Learning Objectives	Associate the principles of radiographic anatomy with the acquisition of the basic notions of descriptive anatomy of the musculoskeletal system; associate the concepts of topographic anatomy with the understanding of applied anatomy. Then integrate the knowledge of Anatomy by reworking them for a clinical surgical approach.
Course prerequisites	All the knowledge of Anatomy and the preparatory skills required by the didactic regulations.
Contents	The contents of the subject "Applied Anatomy" refer to the area of the Clinical Sciences of pets. The theoretical-practical module will address the regional anatomy of the main domestic species with particular reference to domestic carnivores and the horse with diagnostic imaging methods. Particular attention will be devoted to the study of the regions of the head and especially of the limbs in the most popular species in medical-veterinary practice (carnivores and horses). Among the treated parts, a particular space will be reserved for the peripheral distribution of the vessels and nerves, especially in consideration of the needs of orthopedic surgery. The course will be integrated with practical exercises on cadavers during which the student will be able to practice locating the structures described in class.
Books and bibliography	Barone R., Comparative Anatomy of Domestic Mammals, Edagricole, Bologna: vols. I, II, III, IV, V. Merighi, A, Applied Anatomy and Regional Veterinary Topographical. Piccin Publisher. 2005 König, HE, Liebich HG. Anatomy of Domestic Mammals. Piccin Publisher. 2006 (text-atlas) Boyd J.S. "Color Atlas of Clinical Anatomy of the Dog and Cat" Ed.Masson Coulson A., Lewis N. An atlas of interpretative radiographic anatomy of the dog and cat - 2nd Edition, Blackwell Science, Oxford (2008) Piermattei D.L., Atlas of the surgical access routes to the bones and joints of the dog and cat, Ed. Veterinarie. 1995

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Additional materials	Disposable white coat or gown, disposable gloves, cap \ forceps, scalpel and scalpel holder (also disposable)

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
50	13	25	12
ECTS			
2	1	1	

Teaching strategy	
	The Applied Anatomy module includes theoretical lectures (13 hours) and practical teaching lessons (25 hours). In the lectures concepts concerning Topographical Anatomy will be recalled in relation to clinical and surgical problems. The practical part of the exercises will be carried out in the sectoral classroom, with students divided into groups engaged in the study and evaluation of the concepts of Anatomy applied to surgical practices through the use of cadavers or through or viewing images for the interpretation of radiographic images. If required, the educational activities will be delivered in mixed mode.
Expected learning outcomes	
Knowledge and understanding on:	○ Knowing the regional anatomical composition especially with regard to the nervous and muscular vascular structures ○ Understand the close connection between anatomical function and clinical sign ○ Learn the main routes of drug administration
Applying knowledge and understanding on:	○ Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the relevant public ○ Understand the contribution that imaging and other diagnostic techniques can make to obtain a diagnosis. Use basic imaging equipment and perform an examination effectively ○ Knowing how to choose the most suitable surgical access route for structures of clinical interest ○ Knowing how to surgically reach the anatomical structures subject to surgery while safeguarding healthy structures
Soft skills	• Making informed judgments and choices At the end of the course, the student must be able to o Know the etiology, pathogenesis, clinical signs, diagnosis and treatment of common diseases and disorders that occur in common domestic species • Communicating knowledge and understanding At the end of the course, the student must be able to o Explain the reasons that led to undertaking a diagnosis o Explain in a simple and clear way the difficulties related to the execution of the surgery o interact properly with colleagues, owners and breeders of the animals • Capacities to continue learning At the end of the course the student must be able to o Deepen knowledge on the use of alternative surgical access routes

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Assessment and feedback	
Methods of assessment	In the oral exam, the student must be able to adequately communicate what he has learned during the course, in the exercises and in the study of the subject, using appropriate terminology. Particular attention will be paid to the ability to make connections and logical reasoning that link these notions to the broader context of veterinary clinical practice.

Evaluation criteria	• Knowledge and understanding
	  ○ Knowledge of the basic concepts of regional topographic anatomy
	  ○ Knowing how to evaluate the anatomical structures in relation to each other and according to the surgical intervention
	• Applying knowledge and understanding
	  ○ Knowing how to choose the most suitable surgical approach
	  ○ Recognize the anatomical structures during surgery
	• Autonomy of judgment
	  ○ Knowing how to evaluate which anatomical surgical approach is most suitable
	• Communicating knowledge and understanding
	  ○ ability to transfer the concepts and practical skills acquired to colleagues and teachers
	• Communication skills
	  ○ Use of appropriate terminology
	• Capacities to continue learning
	  ○ Ability to learn alternative access routes

Criteria for assessment and attribution of the final mark	The final mark is expressed out of thirty and will be averaged with the marks obtained in the other modules. The exam is passed when the marks in each module are equal to or greater than 18/30.
Additional information	

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