

General information	
Academic subject	Anatomy of Domestic Animals 1
Degree course	Veterinary Medicine
Academic Year	I
European Credit Transfer and Accumulation System (ECTS)	4
Language	Italian
Academic calendar (starting and ending date)	III bimonthly
Attendance	Mandatory

Professor/ Lecturer	
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Virtual headquarters	
Tutoring (time and day)	Tuesday 9:00-11:00. Wednesday 14:30- 16_30

Syllabus	
Learning Objectives	To provide the student with the morphological and structural knowledge of the locomotor system of domestic animals, in relation to the skeletal and muscular system and to give knowledge of the integumentary system. The course aim is to provide information on systematic, topographical, and comparative anatomy. For a better learning of clinical and zootechnical subjects.
Course prerequisites	no
Contents	<p>Basic Sciences</p> <p><u>Introduction</u>: Anatomical Terminology; general information on bones (architecture and classification), general information on joints (classification of the different types of joints and description of their components; joint movements); general information on muscles (architecture and classification) and their appendages (tendons, muscle bands, bags and synovial sheaths). Division of the body into regions.</p> <p><u>Head (axial skeleton)</u>: Neurocranium and splanchnocranium bones; joints of the head, hyoid, atlanto-occipital; skin and head muscles, fascia of the head.</p> <p><u>Vertebral column (axial skeleton)</u>: Cervical, thoracic, lumbar, sacral, coccygeal vertebrae; joints of the spine; neck muscles.</p> <p><u>Chest (axial skeleton)</u>: Ribs, sternum; chest joints; muscles of the chest, abdomen, tail.</p> <p><u>Thoracic girdle and limb</u>: Scapula, humerus, radius, ulna, carpus, metacarpus, phalanges; scapulohumeral joint, elbow, antibrachial, carpal, interphalangeal joints; muscles of the shoulder, arm, forearm, muscles and hand fascia.</p> <p><u>Pelvic girdle and limb</u>: coxal, femur, patella, tibia, fibula, tarsus, metatarsus, phalanges; joints of the pelvis, coxo-femoral, femoro-tibio-patellar, leg, tarsal, foot; muscles of the pelvis, thigh, leg, muscles and foot fascia.</p> <p><u>Integumentary system</u>: skin, skin appendages, horny formation, mammary gland.</p>
Books and bibliography	<p>Barone R., Anatomia comparata dei mammiferi domestici, Vol. 1, 2 (Osteologia, Artrologia, Miologia), Edagricole, Bologna.</p> <p>Konig H.E., Liebich H.G., Atlante dei mammiferi domestici. Vol. I Apparato locomotore. Piccin Nuova Libreria.</p>

	Dyce K.M., Sack W.O., Wensing C.J.G. Anatomia veterinaria. Parte Prima. Antonio Delfino.
Additional materials	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
100	30	25	45
ECTS			
4	3	1	
Teaching strategy		Lecture in classrooms with multimedia tools, PowerPoint presentations and video tutorials produced by the teachers or available online. Blended learning will offer if require. The practical lessons take place in an exercise room equipped with original skeletal preparations, and plastic models. The students, divided into groups of 6-8 people, study preparations and anatomical models in self-learning mode, with dissections of cadavers and demonstration/description of isolated organs. Students group presentations, on a voluntary basis, of in-depth analysis of some of the topics covered.	
Expected learning outcomes			
Knowledge and understanding on:	<ul style="list-style-type: none"> ○ Systematic anatomy of osteology, arthrology and myology ○ Differences of species in the anatomy of the locomotor system ○ Integumentary system and its annexes, and interspecific differences 		
Applying knowledge and understanding on:	<ul style="list-style-type: none"> ○ Identification of skeletal parts of different species ○ Identification of muscles and their anatomic relationships ○ Perform a dissection ○ critical evaluation of scientific literature 		
Soft skills	<ul style="list-style-type: none"> ● <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ Self-assessment test during practical exercises ○ Student classroom presentation ● <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Learning the appropriate anatomical terminology ○ Student group classroom presentation ● <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Analysis in the classroom of the different Anatomy texts proposed, and presentation of various useful links for further information. 		

Assessment and feedback	
Methods of assessment	Oral exam and practical test, at the same time: interview to evaluate the knowledge of the topics covered by the program with identification test of skeletal preparations and localization of muscles or groups of muscles on anatomical models. The student must also demonstrate an adequate knowledge of scientific terminology. The student presentations of in-depth studies will be evaluated and if positive they will affect the final evaluation. There are no ongoing tests.
Evaluation criteria	<ul style="list-style-type: none"> ● <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ Descriptive ability of the locomotor and integumentary system ● <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ Ability to recognize and localize the components of the skeletal and muscular



	<p>system</p> <ul style="list-style-type: none">• <i>Autonomy of judgment</i><ul style="list-style-type: none">○ Ability to evaluate one's own preparation• <i>Communicating knowledge and understanding</i><ul style="list-style-type: none">○ Use of appropriate anatomical language• <i>Capacities to continue learning</i><ul style="list-style-type: none">○ Ability to organize the learned notions
Criteria for assessment and attribution of the final mark	The vote acquired in the Anatomy of domestic animals 1 module will be arithmetic average with vote of Histology and Embryology module (preparatory) for the final vote of the Anatomy 1.
Additional information	