

General information	
Academic subject	“Basic knowledge of Anatomy, Physiology and Morphology of Livestock” Form of the I.C. “Anatomy and General Zootechnics” of 9 CFU
Degree course	Scienze e Tecnologie Agrarie(L-25)
Academic Year	II
European Credit Transfer and Accumulation System (ECTS)	3 ECTS
Language	Italian
Academic calendar (starting and ending date)	First semester (1 October 2021 - 7 January 2022)
Attendance	Optional attendance

Professor/ Lecturer	
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Virtual headquarters	
Tutoring (time and day)	Monday-Friday, 10:00-12:00, by appointment

Syllabus	
Learning Objectives	The course provides basic knowledge relating to the anatomy, physiology and morphology of domestic animals, essential for the study of the professional disciplines, with a view to professional application.
Course prerequisites	Knowledge of animal biology
Contents	<p><i>Lectures</i></p> <p>Notes on animal tissues (types and functions of epithelial, connective, muscular and nervous tissues)  Elements of comparative anatomy and physiology of the systems, with particular reference to the digestive, reproductive system, mammary gland and endocrine system  Morphology of zoognostic regions  Morphological evaluation  Functional assessments of production skills: milk and meat</p> <p><i>Hands on</i></p> <p>Zoometry: instruments, points and detection measures</p>
Books and bibliography	<p>R. Bortolami, E. Callegari, V. Beghelli, Anatomia e Fisiologia degli Animali Domestici, Calderini Editore</p> <p>D. Balasini, Zoognostica, Per la conoscenza, la valutazione e la scelta degli animali, Edagricole</p> <p>G. Aguggini, V. Beghelli, L.F. Giulio, Fisiologia degli Animali Domestici con Elementi di Etologia, UTET</p>
Additional materials	Notes from the lessons and didactic material distributed during the course

Work schedule	

Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
<b>Hours</b>			
75	20	10	45
<b>ECTS</b>			
3	2	1	
<b>Teaching strategy</b>			
	The topics of the course are treated with the help of Power Point presentations, projections of in-depth videos and technical visits to livestock farms. Teaching is provided with frontal and distance learning.		
<b>Expected learning outcomes</b>			
<b>Knowledge and understanding on:</b>	Comparative knowledge of the main species of zootecnical interest from an anatomical, physiological, morphological and functional point of view, for the aspects that take on particular relevance in animal production		
<b>Applying knowledge and understanding on:</b>	Ability to apply in an integrated way the knowledge relating to the anatomical, physiological and morpho-functional aspects of the main species of zootecnical interest, for production and animal welfare purposes		
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• <i>Making informed judgments and choices</i> Ability to analyze and link knowledge relating to the various species of zootecnical interest</li> <li>• <i>Communicating knowledge and understanding</i> Ability to communicate the knowledge acquired by logically connecting the different topics and with appropriate terminology</li> <li>• <i>Capacities to continue learning</i> Ability to acquire the methodology to deepen and update the knowledge, according to a multidisciplinary approach</li> </ul>		

<b>Assessment and feedback</b>	
Methods of assessment	<p>For students enrolled in the year of the course in which the course is held, there is a test on the first part of the course, which consists of an oral test. The result of this test is valid for one academic year.</p> <p>The final exam consists of an oral test on the topics developed during the hours of theoretical and theoretical-practical lessons in the classroom, in the laboratory and/or at production companies, as reported in the Didactic Regulations of the Degree Course in Agricultural Sciences and Technologies (art. 9) and in the related study plan (Annex A).</p> <p>The preparation of the student is assessed on the basis of pre-established criteria, as detailed in Annex A of the Didactic Regulations of the Degree Course.</p>
Evaluation criteria	<ul style="list-style-type: none"> <li>• <i>Knowledge and understanding</i> Level of deepening in the description of the anatomical, physiological and morphological aspects for the main species of zootecnical interest</li> <li>• <i>Applying knowledge and understanding</i> Level of knowledge and ability to apply in an integrated way the knowledge relating to the anatomical, physiological and morpho-functional aspects of the main species of zootecnical interest, for production and animal welfare purposes</li> <li>• <i>Autonomy of judgment</i> Ability to analyze and link knowledge relating to the various species of zootecnical interest</li> <li>• <i>Communication skills</i></li> </ul>

	<p>Effectiveness and clarity in the presentation of the topics, logical connection and adequate terminology</p> <ul style="list-style-type: none"> <li>• <i>Capacities to continue learning</i></li> </ul> <p>Methodological approach and logical connection of the topics covered</p>
Criteria for assessment and attribution of the final mark	<p>The mark of the test on the first part of the course and the mark of the final exam are in thirty.</p> <p>For students who took the test on the first part of the course with a grade greater than or equal to eighteen, upon completion of the final exam, the evaluation is expressed by the arithmetic average of the grade of the two tests.</p> <p>To achieve a high evaluation, the student must have developed autonomy of judgment and adequate capacity for argumentation and presentation.</p>
<b>Additional information</b>	