

DIPARTIMENTO DI Medicina Veterinaria



ACADEMIC YEAR 2023/2024

General information			
Academic subject	PRICIPLES OF PHYSIOLOGY AND ENDOCRINOLOGY OF DOMESTIC ANIMALS		
Degree course	Animal Science L38		
Academic Year	l year		
European Credit Transfer and Accumulation System (ECTS) 6			
Language	Italian		
Academic calendar (starting and ending date)		II semester: 26/02/2024 - 14/06/2024	
Attendance	Mandatory		

Professor/ Lecturer	
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Department and address	Campus of Veterinary Medicine,
	S.P. 62 per Casamassima km 3, 70010, Valenzano (BA)
Virtual headquarters	Microsoft Teams platform if necessary
Tutoring (time and day)	Tuesday 12:30-14:30; Thursday 14:00-15:00

Syllabus		
Learning Objectives	Main objectives of the course are:	
	 the acquisition of basic knowledge of cellular physiology to understand mechanisms underlying the functioning of the main organs that make up the different systems and apparatuses. 	
	 understanding how endocrine system regulates the activity of organs and systems. 	
	Students will have to undertake a comparative study of the physiology of different animal species in line with the educational objectives of the degree course.	
Course prerequisites	To be admitted to the final exam, the student must have passed the following	
	exams:	
	Structural and Metabolic Biochemistry	
	Zoology, Histology and Anatomy.	
Contents	Physiology:	
	Basics of cellular physiology: plasma membrane, transports, electrophysiology.	
	Neuron and nervous system. Muscle. Blood and its functions. Cardiovascular	
	system. Respiratory system. Digestive system. Kidneys.	
	Endocrinology:	
	Basics of endocrinology system: glands and hormones hypothalamus, pituitary	
	endocrine pancreas, thyroid. parathyroid, adrenal glands.	
Books and bibliography	• Fisiologia degli animali domestici, Ø.V. Sjaastad, O. Sand, K. Hove. Casa editrice	
	Ambrosiana.	
Additional materials	Scientific articles proposed by the teacher.	

Work schedule				
Total	Lectures	Hands on (Laboratory, working groups, seminars,	Out-of-cl	lass study
		field trips)	hours/	Self-study
			hours	
Hours				



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150	40 10		10	100	
ECTS					
6	5		1		
Teaching strategy		The objectives of the course will be achieved through theoretical lectures that will take place in the classroom using didactic material appropriately developed in power point format. The teacher will also provide students with scientific works to supplement the knowledge available in the recommended textbook. The course will be completed by a series of laboratory exercises through which students will put into practice some basic knowledge learned. The course is not delivered in e-			
		learnin	g mode (with the exception of health emergency).		
Expected learnin	g outcomes				
Knowledge and understanding o Students must have		Students must have acquired the ability to und	erstand the cellular		
on:			mechanisms underlying the interactions between cel	ls	
		0	At the end of the course the student will have	e acquired essential	
			knowledge of cell and organ physiology, as well as e	ndocrinology. He will	
		also have understood the role of the nervous and endocrine systems in		locrine systems in the	
		tunctional regulation of the organism			
Applying knowle	pplying knowledge and		The student will be able to functionally relate the various apparatuses		
understanding of	1:	0	The student will be able to independently read ar relating to the main blood tests of clinical and endoc	id interpret a report rine chemistry	
Soft skills		• Mo	aking informed judgments and choices		
		0	At the end of the course, the student should acquire the most important differences between physiology and to support own ideas	he ability to recognize and pathophysiology	
			mmunicating knowledge and understanding		
		0	The student should have known technical terminol with colleagues and experts in the field of animal science.	ogy to communicate ences	
	•		Capacities to continue learning		
		0	The student should be able to further improve knowl learning	edge by autonomous	

Assessment and feedback		
Methods of assessment	The exam will be carried out at the end of the course by students in good standing with the prerequisites. The exam will consist of a written test with multiple choice questions on the topics of cellular and organ physiology and endocrinology.	
Evaluation criteria	 Knowledge and understanding The teacher will verify the acquisition of the basic knowledge on animal physiology and endocrinology Applying knowledge and understanding The teacher will verify that the student is able to functionally relate what he has learned. Autonomy of judgment The teacher will verify the student's ability in connecting the anatomical notions with the functioning mechanisms of the organ Communicating knowledge and understanding The teacher will verify the acquisition of the specific terminology which will make the student able to communicate with the veterinary doctor and with the animal owner 	



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	 Capacities to continue learning The teacher will verify the acquisition by the student of an adequate study method that allows him to continue the study independently
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 18/30. In formulating the judgement for each student, the teacher will take into account the commitment that everyone will have shown in attending the course by interacting with the teacher and colleagues and the result of the final written test.
Additional information	