

Dipartimento di Medicina Veterinaria



ACADEMIC YEAR 2022/2023

General Information			
Academic subject	GENERAL PATHOLOGY		
Degree course	Master's Degree in Veterinary Medicine LM42		
Academic Year			
ECTS	5		
Language	Italian		
Academic calendar	IV 7 week term		
Attendance	mandatory		
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Teacher	Email address	phone	
Antonella Perillo	antonella.perillo@uniba.it	080-5443929	
Department and address	Campus of Veterinary Medicine , S.P. 62 Casamassima km 3, Valenzano		
Virtual room	Teams platform access code 064028		
Tutoring (time and day)	On site or through Teams: Tuesday: 10.00-12.00: Wednesday: 14.00-15.00:		
	Thursday: 10.00-12.00; 14-15.00.		
Syllabus			
Learning Objectives	The general pathology and physiopatholo	gy course aims to propose, with the use of	
	the appropriate medical-scientific terminology, the basic concepts of injury,		
	damage and alteration in various anima	al diseases, so that students are able to	
	understand the pathological and pathoph	ysiological mechanisms underlying animal	
	diseases.		
	Students will be led, through theoretical t	eaching and possibly laboratory activities,	
	to acquire:		
	a) the ability to understand the	methods and mechanisms of damage	
	production caused by several etie	ological agents;	
	b) the ability to identify the da	mage response mechanisms caused by	
	articulated cellular and tissue sys	tems of a living organism together with its	
	multiform molecular complexes;		
	c) the basic techniques for discrir	ninating the main alterations from both	
	histological, cytological and mac	roscopic point of view, in order to make a	
	morphological diagnosis;		
	d) ability to communicate and pass	on what has been learned;	
	e) skills in the common diagnostic	c and biosafety procedures used by the	
	pathologist (routine	staining, special histochemical,	
	immunohistochemical), develo	oping the sampling, fixation and	
	interpretation skills of histologica	Il preparations	
	f) the fundamental principles of mo	odern cellular and molecular pathology, as	
	well as degenerative, inflar	nmatory and neoplastic multicellular	
	pathological processes, and cell	ular pathophysiology and mechanisms of	
Course and a state of	Organ pathology and integrated i		
Course prerequisites	Physiology 2 veterinary Microbiology and	Immunology.	
Contents of the teaching course:	General concepts: definition, aims and in	nits of the general pathology. Concept of	
Deneral Pathology and	histology immunohistochomistry biocho	mistry molecular biology Classification of	
Teacher:	the causes of disease. Diseases of intrinsi	causes: hereditary diseases (nathological	
Antonella PERILLO	heredity) and non-hereditary congonital	diseases, with relative examples in animal	
	nathology Diseases of extrinsic cause	as physical chemical putritional and	
Lectures	hiological Physical agents as a cause of	disease Chemical agents as a cause of	
	disease Biological agents as a cause of dir	uisease. Chemical agents as a cause of	
EC13: 4	uisease. Diviogical agents as a cause of dis	ease.	

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Hours: 52 Practical Activitie ECTS: 1 Hours: 13.	s and Exercises	Pathology of regressive processes (atrophy, cellular de apoptosis, pathological calcifications). Pathology of pro- hypertrophy and hyperplasia. Fundamental biological characteristics of neoplastic processes. Inflammation: generalities and phlogogenic causes. Ch- inflammation. Fundamental biological aspects of infla disturbances, exudative phenomena, histogenic phenomen- liquid component of the exudate, formation of the cellul exudate. Acute and chronic inflammations. The various inflammation. Granulomatous inflammation. The practical activity, carried out mainly in the histopath immunohistochemistry laboratories and possibly in the a enable students to operate on samples and diagnose patho lesions.	egeneration, necrosis, gressive phenomena: and morphological emical mediators of mmation: circulatory na, formation of the ar component of the stypes of exudative hology, oncology and inatomical room, will ological processes and	
Biosecurity standards for the frequency of practical activities.		Access to the laboratories and the sector room is allowed only to students with protective clothing (gowns and disposable latex gloves) who have read the biosafety manual.		
Personal study m	aterial			
Reference texts		Marcato P. S., Anatomia e Istologia Patologica McGavin M. D., Zachary J. F., Patologia generale veterinaria, E	, Esculapio, 1997; Elsevier Masson, 2010.	
Notes to the refe	rence texts	Additional teaching material will be provided by the teachers during the course.		
Work schedule				
Hours				
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours:	
125	65		60	
ECTS				
5	5			
Teaching strategy Theoretical using the WEB). The practiliaboratorii room. Ou the progradditiona		eoretical lessons will focus on the topics in the program that will be exposed ing the appropriate multimedia tools (personal computer, projector, use of the EB). In practical activity will be carried out mainly in the histopathology and oncology poratories and in the immunohistochemistry one and possibly in the anatomical om. Outside normal teaching hours, self-assessment tests are provided to verify e progress of acquisitions, ongoing exemptions and, where necessary, use of Iditional learning methods.		
Expected learning	 At the end of the course, students will acquire: a) knowledge relating not only to the pathogenesis, but also to the underlying pathological mechanisms of animal diseases; b) ability to recognize and describe the pathogenetic and molecular mechanisms of cell and tissue damage in relation to the various etiological causes of disease. c) Ability to communicate and transmit what they have learned and to be able to continue their study path in full autonomy. 			



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	d) Skills for the macroscopic recognition of the main characteristics of	
	degenerative, inflammatory and neoplastic lesions of domestic animals	
	through the visualization of macroscopic findings directly with the aid of	
	macro-photographs, with the projection of histological findings (micro-	
	photographs) and, where possible, with the use of the optical microscope.	
Applying knowledge and under-	At the end of the course, students will have acquired the ability to recognize and	
standing on:	describe in a coherent and rational way the pathogenetic and molecular	
	mechanisms of cell and tissue damage in relation to the various etiological causes	
	of disease; the main processes that cause the onset of circulatory disorders,	
	hemodynamic alterations and thermoregulation in pets; the basic principles of the	
	genesis of the innate and acquired immune response and of the processes	
	underlying the phenomena of hypersensitivity and autoimmune diseases (DOC.	
	2.5).	
Soft skills	A) Autonomy of judgment	
	At the end of the course, students will be able to:	
	1) review and critically evaluate the literature relating to teaching (DOC.	
	1.8);	
	2) show skills in the logical approach to scientific and pathological	
	reasoning (DOC. 2.1).	
	B) Communication skills	
	At the end of the course, students will have to demonstrate the ability to:	
	1) work in a team, adopting adequate communication and interaction	
	strategies (DOC. 2.11);	
	2) adopt different linguistic registers, including the technical-scientific one,	
	to adequately communicate experimental results (DOC. 1.4);	
	3) autonomously learn and deepen topics of professional relevance (DOC.	
	1.13).	
Summary of the kills that the	Skills:	
course helps students acquire	1.4	
(Day One Competence) provided	1.8	
by the EAEVE.	1.13	
	1.21	
	1.22	
	1.28	
	2.1	
	2.5	
	2.11	

Assessment and feedback	
Methods of assessment	The examination of the General Pathology course allows the acquisition of 5 ECTS
Evaluation criteria	1.
Criteria for assessment and attribution of the final mark	The final grade of the General Pathology exam is closely related to the critical sense shown by the student in the discussion of the topics and to the medical-scientific language acquired during the assiduous attendance of the frontal course and practical activities. The final evaluation is expressed out of thirty; the exam, passed with a grade equal to or greater than 18, will take into account not only the accuracy of the answers, but also the communication skills, the clarity of presentation, the disciplinary competence and the level of in-depth analysis of the issues addressed.
Additional information	