

Year 2024/2025

1262506 - Specialisation in treatment of small animals

Information about the subject

Degree: Bachelor of Science Degree in Veterinary Medicine

Faculty: Faculty of Veterinary Medicine and Experimental Sciences

Code: 1262506 **Name:** Specialisation in treatment of small animals

Credits: 6,00 ECTS Year: 5 Semester: 1

Module: Module of elective courses

Subject Matter: Intensifications per animal group Type: Elective

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:



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Module organization

Module of elective courses

Subject Matter	ECTS	Subject	ECTS	Year/semester
Intensifications per animal group	24,00	Specialisation in Clinic of Wild and Exotic Animals	6,00	5/1
		Specialisation in the Equine Clinic	6,00	This elective is not offered in the academic year 24/25
		Specialisation in treatment of small animals	6,00	5/1
		Surgical pathology of the musculoskeletal system of small animals	6,00	5/1
Animal Reproduction and Production	30,00	Fighting bull	6,00	5/1
		Reproductive Technology	6,00	This elective is not offered in the academic year 24/25
		Specialisation in animal production	6,00	This elective is not offered in the academic year 24/25
		Specialisation in animal research	6,00	This elective is not offered in the academic year 24/25
		Specialisation in aquaculture	6,00	This elective is not offered in the academic year 24/25



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Feeding	12,00	Microbiology in Food	6,00	This elective is not offered in the academic year 24/25
		Quality management in the agri-food industry	6,00	This elective is not offered in the academic year 24/25

Recommended knowledge

Physiology, physiopathology, parasitology, infectiuos diseases, small animal medicine and surgery, pharmacology and toxicology, and diagnostic techniques.

Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

3	
R1	The student knows and understands the concepts and terminology presented in the module of Small Animal Clinic Intensification.
R2	The student performs a correct anamnesis and collection of relevant data for the resolution of clinical cases.
R3	The student correctly identifies the main injuries and is able to define the main diagnostic-oriented problems.
R4	The student is able to define the differential diagnoses for each problem in order of priority and in a critical manner.
R5	The student knows and understands the main tests, their preparation, interpretation and evaluation in a critical way.
R6	The student is able to define a diagnosis (presumptive or definitive) as well as a therapeutic protocol and recommendations for the owner.
R7	The student is able to establish a diagnostic plan in order to make a diagnostic judgement.
R8	The student is able to write documents related to the subject and work in a team.



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Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC			Weighting		
		1	2	3	4
CB2	Capacity to apply knowledge to work or occupation in a professional way and have the competences that are proved by preparing and arguing topics and problem-solving in their specific field of study.				x
CB3	Capacity to gather and interpret relevant data usually within their specific field of study and capacity to make judgments that include reflection on relevant social, scientific or ethical issues.				X
CB4	Capacity to communicate information, ideas, problems and solutions at specialist and non-specialist levels.				X
CB5	Capacity to develop those learning skills needed to undertake further studies with a high degree of autonomy.				X

SPECII	FIC		Weig	hting	l
		1	2	3	4
E24	Knowing and applying methods and procedures of clinical examination, additional diagnostic techniques and their interpretation.				X
E25	Knowing and applying imaging diagnostic and radiation biology.			X	
E27	Knowing and applying recognition and diagnosis of different types of injuries and their association with pathological processes.				X
E28	Knowing and applying the clinical study of patients and medical, surgical or hygienic-dietary treatments required, as well as sporadic diseases affecting groups.				X
E29	Knowing and applying diagnosis.				X
E30	Knowing and applying surgical techniques used in veterinary.		x		



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E31 Knowing and applying animal anesthesia and resuscitation.

X

RANS	SVERSAL	We	ightir	ng
	1	2	3	4
T1	Capacity of analysis, synthesis, implementation of knowledge for problem-solving and decision-making.			X
T2	Understanding and applying the scientific method to professional practice including evidence-based medicine.			X
Т3	Basic knowledge of the veterinary profession: legal, economic, administrative, planning and time management issues and the veterinarians' society together with the importance of monitoring quality, standardization and protocols of veterinary practice.	X		
T4	Mastering fluency in oral and written mother tongue communication, listening and responding effectively using a language appropriate to audience and context.			X
T5	Knowledge of a second language, preferably English, especially technical vocabulary of veterinary science.	X		
Т6	Using information technology to communicate, share, search for, collect, analyze and manage information, especially related to the veterinarian practice.	X		
Γ7	Ability to adapt to new situations, self-critical ability, being aware of personal limitations and understanding when and where seeking and obtaining advice and professional help.		X	
Т8	Efficient and effective work, both independently and as a member of a multidisciplinary team or unit, showing respect, appreciation and sensitivity to the work of others.			X
Г9	Keeping an ethical behaviour in the exercise of given responsibilities toward the profession and society.			X
Γ10	Ability to learn, to research, and to be aware of the need to keep knowledge updated, and attending training programs.			x





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Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R6, R7	40,00%	Evaluation of the practical laboratory work, which must demonstrate the competences acquired by the student and his or her ability to use them to solve the different situations and problems that arise in a laboratory; this assessment may consist of one of the following methods, or a combination of several of them: an individual written test, the individual or group performance of a laboratory experience, the delivery of an individual or group report on the work carried out in the laboratory.
R1, R2, R3, R4, R5, R6, R7	40,00%	Evaluation of practical work in a clinic through which the student must demonstrate the competences acquired and the ability to use them to solve the different situations and problems that arise in a clinic; this assessment may involve one of the following methods, or a combination of several of them: a written individual test, the individual or group performance of a clinical experience, the delivery of an individual or group report on the work carried out in the laboratory.
R1	20,00%	Evaluation of activities in which the student must do some research individually and structure information related to each of the topics through a system of continuous assessment throughout the course based on the delivery of papers, the objectives and contents of which will be proposed by the teacher.

Observations

Theoretical and practical acquired knowledge will be evaluated in a written final exam (January first call, February second call). This exam will have 24 MCQ (only one right option) and a combination of short answer questions and/or a clinical case that the student must resolve. The assistance to the clinical practices is mandatory. Clinical practices will be evaluated according to a rubric which will contain the following points to be evaluated from cero (0) to ten (10): theoretical knowledge, correct identification of lesions and clinical problems, problem-oriented approach, participation, attitude,



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and behaviour. In addition, this evaluation would contain some questions that the student must answer before any clinical practices are initiated. The individual project must be delivered by all the students the same day of the first call for final written examination independently of its presentation at the exam, and without exceptions. The evaluation of the individual project will be performed according to a rubric and will be from cero (0) to ten (10).

The final course mark will be the average of the final mark of the three evaluation resources (written exam, clinical practices, and individual project). In order to pass the course, the student must obtain as final written exam mark no less than five (5). If the student pass all the evaluation resources but the final written exam, the rest of the marks accomplished will be kept during an academic year. Exam review: after the public presentation of the final mark, a timetable for exam review will be available at the UCV intranet. No exam review will be offered outside this timetable. For those students that for any reason could not assist to any of the officially proposed written final exam calls, an extraofficial oral final examination could be proposed.

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M1

On-site training activity aimed primarily at acquiring knowledge acquisition skills. It is characterised by the fact that students are spoken to. Also called master class or exposition, it refers to the oral presentation made by the teacher, (with the support of blackboard, a computer and a projector for the display of texts, graphs, etc.), in front of a group of students. They are expository, explanatory or demonstrative sessions of contents. The size of the group is determined by the limit or physical capacity of the classroom; therefore, it is a single group.



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- M2 On-site training activity aimed primarily at obtaining knowledge application and research skills. Knowledge is built through interaction and activities. The activity consists of supervised monographic sessions with shared participation (teachers, students, experts). The size of the group is variable, from one large group to various small groups, with a minimum of 6 students to ensure interaction. The evaluation will be based on follow-up records kept by the teacher. Participation and the development of the capacity to problematize should be taken into account.
- On-site group-work training activity oriented toward problem solving under the supervision of a teacher. It would correspond to "Animal-free supervised practical work", type e1, from the European evaluation of EAEVE. The size of the group is variable, in a range of 10 to 20 students, to differentiate it from a master class.
- On-site training activity in groups carried out in the laboratory. It includes the sessions where the students develop laboratory experiments, make dissections or use the microscopes for the study of histological or histopathological samples actively and autonomously, under the supervision of the professor. It also includes work with healthy animals, objects, products, corpses (e.g., animal handling, bacteriological practices, physiology or biochemistry, meat inspection, etc.). It would correspond to the "Supervised practical non-clinical animal work" type e2 of the European evaluation of EAEVE. The size of the group is variable, in a range of 10 to 20 students.
- On-site training activity that is defined as the clinical practical work developed in the Veterinary Clinical Hospital or clinical centres ascribed to the University, as well as itinerant clinical practices, mainly with ruminants, equids, pigs, birds and aquatic animals. Also included are necropsies, surgical workshops and training in clinical examination techniques or diagnosis with healthy patients. In these practical sessions the student will always work with animals, which can be healthy (e.g. propaedeutic or obstetrics) or clinical cases (individual or collective), including a protocol or work scheme, being supervised by a teacher and assuming the provision of a service. This type of training corresponds to type e3 of the EAEVE European evaluation called "Clinical Training" (strickly hands-on)". The size of the group will be 5 students or fewer.
- A set of on-site training activities carried out by the teacher to provide personalised attention to the student or in small groups with the aim of reviewing and discussing the materials and topics presented in classes, seminars, readings, carrying out projects, etc. The aim is to ensure a truly comprehensive education of the student rather than a mere transfer of information. It is, therefore, a personalized assistance relationship in which the tutor assists, facilitates and guides one or more students in the learning process.



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- M9 Set of processes that attempt to evaluate the learning outcomes of students expressed in terms of acquired knowledge, capacities, skills or abilities developed and manifested attitudes. It covers a wide range of activities that can be developed for students to demonstrate their training (e.g. written, oral and practical tests, projects or assignments). It also includes the Official Calls.
- M10 Autonomous training activity, including activities and coursework, bibliographic searches. The results obtained from unsupervised group and teamwork will be evaluated, with particular attention paid at the time of evaluation to the acquisition of specific knowledge development skills through group work.
- Autonomous training activities related to personal study, or the preparation of individual course assignments. The individual preparation of readings, essays, problem solving, papers, reports, etc. will be evaluated through presentations or submissions during theoretical classes, practical classes, seminars and/or tutorials. The evaluation of the submitted papers will consider the structure of the paper, the quality of the documentation, originality, spelling and presentation.
- M12 On-site training activity consisting of an independent clinical rotation with a final assessment of competencies, in university veterinary hospitals, itinerant clinics, farms, pilot plants, departments with devices intended for practical teaching in the degree of veterinary, as well as stays in veterinary slaughterhouses, companies and external agencies in the veterinary or related fields.



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IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS	
Theoretical lessons (TL)	R1, R3, R4, R5, R6	60,00	2,40	
Seminars (S) _{M1}	R1, R4, R5, R6	20,50	0,82	
Clinical Practice (CP)	R1, R2, R3, R4, R5, R6	40,00	1,60	
Tutorial _{M8}	R1, R2, R3, R4, R5, R6	12,50	0,50	
Evaluation (Ev)	R1, R3, R4, R5, R6	2,00	0,08	
TOTAL		135,00	5,40	

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES HOURS	ECTS
Individual work	15,00	0,60
TOTAL	15,00	0,60



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Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Contents
1. INTRODUCTION TO CLINICAL REASONING IN THE COMPANY ANIMAL CLINIC 2. RELEVANT ANALYTICAL ALTERATIONS IN SMALL
ANIMAL CLINIC 3. CLINICAL REASONING IMMUNE AND INFECTIOUS DISEASES
4. CLINICAL REASONING CARDIO-RESPIRATORY DISEASES
5. CLINICAL REASONING GASTROINTESTINAL AND PANCREATIC DISEASES
6. CLINICAL REASONING FOR HEPATOBILIARY DISEASES
7. CLINICAL REASONING ENDOCRINAL DISEASES 8. CLINICAL REASONING KIDNEY DISEASES / URINARY SYSTEM
1. Ocular annexes.
2. Cornea and sclera.3. Uvea and crystalinne lens.4. Retina, optic nerve and glaucoma.
 Gastro-intestinal emergencies. Environmental emergencies. Toxicologic emergencies. Emergencies and critical care ultrasound. Sepsis and septic shock. Glucose alterations in critical care patients. Electrolyte alterations in critical care patients. Veterinary specialization.



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Organization of the practical activities:

	Content	Place	Hours
PR1.	Internal Medicine	Hospital	20,00
PR2.	Ophtalmology	Hospital	20,00
PR3.	Critical Care	Hospital	20,00

Temporary organization of learning:

Block of content	Number of sessions	Hours
Internal Medicine	22,50	45,00
Ophtalmology	22,50	45,00
Emergencies and Critical Care	22,50	45,00

References

- 1. Muller & Kirk's Small Animal Dermatology. Miller W, Griffin C, and Campbell K. Elsevier 7th Ed. 2013.
- 2. BSAVA Manual of Canine and Feline Dermatology. Jackson H, Marsella R. British Small Animal Veterinary Association 3rd Ed. 2012
- 3. BSAVA Manual of Canine and Felines Cardiorespiratory Medicine. Luis Fuentes V, Johnson L, Dennis S. British Small Animal Veterinary Association 2nd Ed. 2010
- 4. Small Animal ECGs: an introductory guide. Martin M. Wiley-Blackwell 3rd Ed. 2015
- 5. Slatter D. "Fundamentals of Veterinary Ophthalmology" 6th Edition, by Maggs D., Miller P.& Ofri R. Saunders 2018
- 6. Gelatt. Kirk N, Plummer C.E. "Color Atlas of Veterinary Ophthalmology". Wiley Backwell, 2017.
- 7. Silverstein, Hopper. "Small animal critical care medicine 2nd Edition". Elsevier Saunders
- 8. Macintire, Drobatz, Haskins, Saxon. Manual of Small Animal Emergency and Critical Care Medicine. Wiley Blackwell.



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Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

<u>Situation 1: Teaching without limited capacity</u> (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

<u>Situation 2: Teaching with limited capacity</u> (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

Kaltura



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Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

X	Microsoft Teams	
	Kaltura	

Explanation about the practical sessions:

In case of not being able to carry out the face-to-face practices in the facilities of the Veterinary Hospital of the UCV, discussions and resolutions of clinical cases or scientific articles will be held electronically (Microsoft Teams).



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2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

ONSITE	VORK							
Regarding the Assessment Tools:								
Х	The Assessment Tools will not be modified. If onsite assessment is not possible, will be done online through the UCVnet Campus.							
	The following changes will be made to adapt the subject's assessment to the online teaching.							
	Course guide		Adaptation					
	Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used				

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System: