



Universitat de Lleida

# DEGREE CURRICULUM **HEALTH-CLINIC- SLAUGHTERHOUSE- INDUSTRIES ROTATION**

Coordination: LÓPEZ HELGUERA, IRENE

Academic year 2023-24

## Subject's general information

Subject name	HEALTH-CLINIC-SLAUGHTERHOUSE-INDUSTRIES ROTATION			
Code	100380			
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION			
Typology	Degree	Course	Character	Modality
	Double bachelor's degree: Bachelor's Degree in Veterinary Medicine and Bachelor's Degree in Science and Production	6	COMPULSORY	Attendance- based
Course number of credits (ECTS)	15			
Type of activity, credits, and groups	Activity type	PRACLIN		
	Number of credits	15		
	Number of groups	1		
Coordination	LÓPEZ HELGUERA, IRENE			
Department	ANIMAL SCIENCE			
Important information on data processing	Consult <a href="#">this link</a> for more information.			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ARMENGOL GELONCH, RAMON	ramon.armengol@udl.cat	3,1	
BALCELLS TERES, JOAQUIM	joaquim.balcells@udl.cat	,5	
BASSOLS WOLF, MARTA	marta.bassols@udl.cat	2	
BELMONTE MINGUEZ, CRISTINA	cristina.belmonte@udl.cat	1,2	
BERNAUS GILI, JOSE MARCELINO	josep.bernaus@udl.cat	1,2	
BERTRAN CASTELLS, ALBA	alba.bertran@udl.cat	1,2	
BIETO MASIP, MERCE	mmbieto.masip@ca.udl.cat	1,2	
BIRLANGA CUBERO, BEGOÑA	bego.birlanga@udl.cat	1,2	
BLANCH SERRALTA, MONTSERRAT	montserrat.blanch@udl.cat	1,2	
CLAVEROL ROS, JAIME	jaume.claverol@udl.cat	1,2	
CORREDERA ALCOVER, MARIA DOLORES	dolors.corredera@udl.cat	5,44	

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
CUERDO VILCHES, FATIMA	fatima.cuerdo@udl.cat	5,59	
DIEZ MORENO, SONIA	sonia.diez@udl.cat	1,2	
ENJUANES GRACIA, GEMMA	gemma.enjuanes@udl.cat	1,2	
FARRENY VILLARTE, MONTSERRAT	montserrat.farreny@ca.udl.cat	1,2	
FERRAN THIO, JOAN	joan.ferran@udl.cat	1,2	
FINESTRA URIOL, ALBERT	albert.finestra@udl.cat	2,6	
GALOFRE MERCADE, ROGER	roger.galofre@udl.cat	2,1	
GARCIA AMELA, MARIA TERESA	mtgarcia@ca.udl.cat	1,2	
GOMEZ BARDAJI, LUIS MIGUEL	luismiguel.gomez@udl.cat	5,17	
GRASA BAÑON, MIRIAM	miriam.grasa@udl.cat	2,1	
IBAÑEZ SANCHO, CHRISTIAN	christian.ibanez@udl.cat	1,2	

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
JUNYENT CAPDEVILA, VICENÇ	vicenc.junyent@udl.cat	5,62	
LLOPIS COS, NURIA	nuria.llopisc@ca.udl.cat	1,2	
LÓPEZ HELGUERA, IRENE	irene.lopez@udl.cat	2,5	
MALLO DIAZ, JOSE MANUEL	jose.mallo@udl.cat	2,1	
MANGUES PALACIN, MARIA ROSA	rosa.mangues@udl.cat	1,2	
MARTINEZ LOBO, FRANCISCO JAVIER	javier.martinezlobo@udl.cat	2,1	
MILA BEA, MARIA TERESA	teresa.mila@udl.cat	1,2	
MOLINO GAHETE, FRANCISCO	francisco.molino@udl.cat	3,2	
PABLO PASCUAL, NATIVIDAD	natipablo@ca.udl.cat	1,2	
ROMERO BARRIO, JOSE JAVIER	josejavier.romero@udl.cat	1,2	
ROMIA PUIGVERT, VICTOR	victor.romia@udl.cat	2,6	

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ROSSELLO VALLES, JOAN PERE	joan.rossello@udl.cat	2,1	
SANFELIU COTS, MARIA ESTHER	mesanco@ca.udl.cat	1,2	
SANMARTIN SUÑER, JOAN BAUTISTA	joan.sanmartin@udl.cat	2,1	
TORIBIO VELAMAZAN, PEDRO	pedro.toribio@udl.cat	5,17	
TORRA BURGUES, ADA	ada.torra@udl.cat	2,1	
TORRES FORCADA, NEUS	neus.torres@udl.cat	2,1	
TUTUSAUS BATLLE, JOAN	joan.tutusaus@udl.cat	2,1	

## Subject's extra information

In the rotation courses, students will integrate all aspects of medicine, production and bromatology, as well as the basic sciences studied during their degree, and will need to demonstrate that they have acquired skills and competences that allow them to optimize productive situations, resolve anomalies and solve clinical cases. Students must work all the species, companion animals, slaughter animals, horses, exotic and wild-exotic keeping the dedication percentages listed in the table. The rotation courses will be coordinated by a professor and taught by veterinary associate professors, specialists in different subjects. Teaching will be regulated with a majority participation of the teaching staff in the UdL staff, whose coordination will depend on the Degree Coordination. The coordinating teacher will monitor the itineraries, the achievement of competences by the student and the coordination with the consortium entities or collaborators with the associated teachers.

## Competences

BASIC COMPETENCES

CB1, CB2, CB3, CB4, CB5

## TRANSVERSAL COMPETENCES

CT1, CT2, CT3, CT4, CT5

## GENERAL COMPETENCES

CG1 Hygiene control, inspection and technology for the production and processing of food for human consumption from primary production to the consumer.

CG2 The prevention, diagnosis and individual or collective treatment, as well as the fight against animal diseases, whether they are considered individually or in groups, particularly zoonoses.

CG3 The control of the breeding, handling, welfare, reproduction, protection, and feeding of the animals, as well as the improvement of their productions.

CG4 Obtaining products of animal origin under optimal and economically profitable conditions and assessing their environmental impact

CG5 Knowledge and application of legal, regulatory and administrative provisions in all areas of the veterinary profession and public health, understanding the ethical implications of health in a changing global context.

CG6 Development of professional practice with respect to other health professionals, acquiring skills related to teamwork, the efficient use of resources and quality management

. CG7 Identification of emerging risks in all areas of the veterinary profession

## SPECIFIC COMPETENCES

CE37 Pre-professional practices, in the form of an independent clinical rotary and with a final evaluation of competences, in university veterinary hospitals, ambulatory clinics, farms, pilot plants, departments with devices intended for practical teaching in the veterinary degree, as well as stays in veterinary establishments, as well as stays in veterinary establishments, slaughterhouses, companies and external organisms of the veterinary or related field.

CE38 Knowledge and practical application of the principles and methodologies of veterinary medicine, as well as the acquisition of the skills and competences described in the general objectives of the degree

## Subject contents

The Clinic and Health rotations will be carried out initially in the consortium hospitals-Clinics, in the ambulatory clinic and in the consortium farms and centers. They will be pre-professional practices for a period of approximately three weeks. During these practices students will integrate all aspects of medicine and surgery as well as the basic sciences studied during the career in case resolution, and will need to demonstrate that they have acquired clinical skills that allow them to solve simple clinical cases. The students will have to work all the species, horses, small animals, animals of slaughter, exotic and wild-exotic keeping the dedication percentages that appear in the memory.

The rotations will be taught in coordination by a permanent professor and contracted veterinarians who are specialists in the different specialties (preferably European Diplomates). Teaching will be regulated with direct and majority participation by the teaching staff.

With a similar teaching structure, the rotations will be carried out in Public Health, Slaughterhouses-Industries. In these pre-professional practices students will perform post-mortem diagnosis, hygiene, food inspection and control, and food technology. The itinerary for these rotations will be carried out, in the first case in the necropsy room and will be completed in consortium slaughterhouses. In the case of the rotations in Hygiene and Technology, the itineraries will be carried out preferably in agri-food industries and in food processing establishments for

communities. These rotation on slaughterhouses and industries will be carried out with the supervision of the Official Veterinary Services.

## Development plan

The rotation, in each of the typologies, will be coordinated by the following academics:

- Clinic-Health in small animals and Equids (CSPA): Marta Bassols
- Clinic-Health in Farm Animals (CSAB): Dr. Ramón Armengol
- Public health, technology, ante and post-mortem inspection, hygiene, control in slaughterhouses and industry (Slaughterhouses, Technology and Industry): Dr. Francisco Molino

In the first case, in the CSPA rotaries, a total of 60 students (subdivided into 30 groups of 2 students) will be hosted by the different Hospitals / Clinics accredited as University Teaching Units (UDU) in the course of an academic year, ( from February to May). At UDU students must follow for 2 weeks and a minimum of 30 hours per week the proposed itineraries that have been subdivided into two groups, generic (they must be carried out by all students in the consortium entities) and electives (students must choose between the revolving ones offered) and can only be carried out in some of the consortium hospitals / clinics.

These itineraries will be:

- Generic
- Inquiries
- Traumatology
- General Surgery
- Internal Medicine
- Dermatology
- Electives
- Cardiology
- Ophthalmology
- Endodontics
- Oncology
- Rehabilitation
- Anesthesiology

The double tutoring will be exercised by the coordinating tutor of the UdL and the academic tutor, associate professor belonging to the veterinary team of each UDU, whose responsibility will be to show in their workday, their work as a veterinarian and evaluate the acquisition of certain skills by the student. In each itinerary, the student must place special emphasis on acquiring the practical-theoretical knowledge proposed in the itineraries. The consortium entities (subject to their official accreditation as University Teaching Units) that will host the proposed rotary are those that are detailed:

- Lleida Veterinary Hospital
- V3- Equip Veterinari (Lleida)
- Duckling Veterinaris (Lleida)
- Center Clinic Veterinari de Lleida
- Center Veterinari del Pla (Mollerusa)
- Veterinari de Catalunya Hospital (Igualada)

Within the CSPA rotary, students will practice in a horse clinic. This teaching will take place for 1 day, with veterinary professionals who carry out their clinical work in this area. For this, a maximum of 60 students (in 30 groups of 2 students) will be welcomed by specialist teachers during an academic year (from May to June).



In the second case, the rotations in farm animals (CSAB) will be carried out with veterinary professionals who carry out their clinical work in the different areas, who will be hired as associate professors. Specialist Veterinarians in Swine, Ruminants and Bird-rabbits who will be in charge of teaching 4 ECTS credits. This pre-professional practical teaching will be carried out for 5 days (2 continuous days in pigs, two continuous days in ruminants and one day in birds and rabbits). For this, a maximum of 60 students (in 20 groups of 3 students) will be welcomed by specialist teachers during an academic year (from May to June). The student during his rotation will have a double tutoring: the coordinating tutor of the UdL and the academic tutor (associate professor) of the veterinary team specialized in each of the species with the responsibility of showing their work as a veterinarian in their workday and evaluating the acquisition of certain skills by the student. The itineraries to be carried out have been subdivided into two groups, generic (they must be carried out by all students) and optional (depending on the availability and clinical casuistry of each professional). These itineraries will be:

- General medicine
- General Surgery
- Preventive medicine
- Reproduction
- Dermatology
- Milk Quality
- Lameness
- Rehabilitation Anesthesiology

During the Technology Rotation ante and postmortem inspection, hygiene, slaughterhouse and industry control, students will perform post-mortem diagnosis, hygiene, food inspection and control, and food technology. These rotations will be held at the General Directorate of Public Health of Central Catalonia, Camp de Tarragona, Lleida, Alt Pirineus and Baix Ebre (now DGSP), the DGSP will be in charge of giving 5 ECTS credits and this practical teaching, pre -professional will be held for 7 days (5 continuous days in slaughterhouse and industries and two days of seminars given and within the scope of the DGSP). For this, a total of 60 students (in 30 groups of 2 students) will be welcomed by the DGSP during an academic year, (from February to May), distributed in their veterinary health areas. The student during his rotation will have a double tutoring: the coordinating tutor of the UdL and the academic tutor of the veterinary team (TAV) of the DGSP in each area, whose responsibility will be to show his work as a veterinarian in his workday and evaluate the acquisition of certain competitions on the part of the student. By their nature, these activities will be structured in two different itineraries: activities to be carried out in slaughterhouses (A) and activities to be carried out in industry (B). In each itinerary, the student must emphasize acquiring, in the different itineraries (A or B), those theoretical practical knowledge related to the following topics

#### **A.- Slaughterhouse**

- Animal welfare
- Ante-mortem diseases and emergency sacrifices
- Post mortem inspection, seizures, pathology.
- Hygiene of facilities and equipment, slaughter lines, cutting, cameras.
- Hygiene of operators and utensils.
- Slaughter and cutting work
- Sampling, trichina analysis, prohibited substances, medications.
- Withdrawal of MER.
- By-product management
- Slaughter technology
- Inspection records
- HACCP

#### **B.- Industry**

- HACCP
- Hygiene of facilities and equipment, cameras.
- Hygiene of operators and utensils.
- Hygiene in food manufacturing processes Sampling.
- Traceability systems
- Knowledge of the technological processes that are carried out in these industries Inspection records
- Applicable regulations

**Attendance at all activities is mandatory.**

## Evaluation

The evaluation process will depend on the characteristics of the different rotations.

**CSPA:** The veterinarian in charge of teaching the student will fill in a rubric about the student after the internship period (70% of the mark). At the end, students will have to present a clinical case that will account for the other 30% of the grade in this section. The equine part will be evaluated using the rubric to be filled in by the teaching veterinarian.

**CSAB:** all the rotations in this section will be evaluated using the rubrics that value the student. In addition, if the rotary requires it, they will be asked to present a clinical case or an exam to complete 50% of the grade in that section. In CSAB of avian and rabbit activities, the evaluation will be test exam.

**Public health, technology, ante and post-mortem inspection, hygiene, control in slaughterhouses and industry:**

- First virtual questionnaire: 25% of the final mark
- Reports of the Official Veterinarians of the Generalitat: practice at slaughterhouses (25%) and at industry (15%).
- Presentation of a monographic case based on a topic of interest related to its passage through the public health, slaughterhouses and food industries rotary: 35% of the grade.

Rubrics are common to all rotations. These rubrics will be filled in by the teachers in charge of the different rotations taught. The following will be evaluated: the student's previous knowledge, the degree of learning during the rotation and the disposition and attitude of the student.

The final mark will be a weighted average of the different sections according to their teaching load.