



Facultad de Veterinaria  
Universidad de Murcia

UNIVERSIDAD DE  
MURCIA



# Self Evaluation Report

## Appendices

20-24 November 2017



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# Appendix 1. Current academic staff, qualifications, their FTE, teaching responsibilities and departmental affiliations.

Departmental affiliation: Veterinary Comparative Anatomy and Pathology					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Ayala Florenciano	María Dolores	Associate Professor	PhD	Full-time	Anatomy II
Bernabé Salazar	Antonio	Full Professor	PhD	Full-time	Microscopic Anatomy & Histology, Practicum
Buendía Marin,	Antonio Julián	Associate Professor	PhD	Full-time	General Pathological Anatomy, Special Pathological Anatomy, Practicum
Gil Cano	Francisco	Full Professor	PhD	Full-time	Anatomy & Histology Central Nervous System (CNS) & Embryology, Veterinary History
Gómez Cabrera	Serafin	Associate Professor	PhD	Full-time	Special Pathological Anatomy, Animal Farm Clinic,, Practicum
Gómez Sánchez	Miguel Ángel	Associate Professor	PhD	Full-time	Special Pathological Anatomy, Practicum
Latorre Reviriego	Rafael Manuel	Full Professor	PhD	Full-time	Anatomy I
López Albors	Octavio Miguel	Full Professor	PhD	Full-time	Anatomy I
Martínez Gomariz	Francisco	Professional Associate Professor	PhD	Part-time	Anatomy I, Anatomy II
Navarro Cámara	José Antonio	Full Professor	PhD	Full-time	Microscopic Anatomy & Histology, Practicum
Pallares Martínez	Francisco José	Associate Professor	PhD	Full-time	Microscopic Anatomy & Histology, Anatomy & Histology Central Nervous System (CNS) & Embryology, Animal Farm Clinic, Practicum
Ramírez Zarzosa	Gregorio J.	Associate Professor	PhD	Full-time	Anatomy II, Anatomy & Histology Central Nervous System (CNS) & Embryology
Sánchez Campillo	Joaquín	Full Professor	PhD	Full-time	General Pathological Anatomy, Special Pathological Anatomy, Practicum
Sánchez Collado	Cayetano	Professional Associate Professor	PhD	Part-time	Anatomy I, Anatomy II
Sánchez Martínez	Pedro	Professional Associate Professor	PhD	Part-time	Special Pathological Anatomy
Seva Alcaraz	Juan	Associate Professor	PhD	Full-time	Special Pathological Anatomy, Practicum
Vázquez Auton	José María	Full Professor	PhD	Full-time	Anatomy II, Anatomy & Histology Central Nervous System (CNS) & Embryology

Departmental affiliation: Animal Medicine and Surgery					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Agut Giménez	Amalia	Full Professor	PhD	Full Time	Imaging Diagnosis, Practicum
Arana Sánchez	Rafael	Profesional Associate Professor		Part time	Farm Animal Clinics, Practicum
Ayala de la Peña	Ignacio	Associate Professor	PhD	Full Time	Medical Pathology, Farm Animal Clinics, Practicum
Bayon del Río	Alejandro Angel	Associate Professor	PhD	Full Time	Medical Pathology, Practicum
Belda Mellado	Eliseo	Contrated Associate Professor	PhD	Full Time	Veterinary Anaesthesia, Practicum
Bernal Gambín	Luis Jesús	Associate Professor	PhD	Full Time	Medical Pathology , Nosology & Physiopathology, Practicum
Cerón Madrigal	José Joaquín	Full Professor	PhD	Full Time	Nosology & Physiopathology, Veterinary Clinical Pathology, Practicum
Cuello Medina,	Cristina	Associate Professor	PhD	Full Time	Reproduction & Obstetrics, Practicum
Fernández del Palacio	Josefa	Associate Professor	PhD	Full Time	Medical Pathology, Animal Farm Clinic, Practicum
García Martínez	Juan Diego	Collaborate Professor	PhD	Full Time	Medical Pathology, Farm Animal Clinics, Practicum
Gil Corbalán	María Antonia	Full Professor	PhD	Full Time	Reproduction & Obstetrics, Farm Animal Clinics, Practicum
Gutiérrez Montes	Ana María	Contrated Associate Professor	PhD	Full Time	Propaedeutic, Animal Farm Clinic, Practicum
Gutiérrez Panizo	Cándido	Full Professor	PhD	Full Time	Propaedeutic, Farm Animal Clinics, Practicum
Laredo Álvarez	Francisco Ginés	Full Professor	PhD	Full Time	Veterinary Anaesthesia, Farm Animal Clinics, Practicum
Lucas Arjona	Xiomara	Full Professor	PhD	Full Time	Reproduction & Obstetrics, Practicum
Martínez García	Emilio Arsenio	Full Professor	PhD	Full Time	Reproduction & Obstetrics, Practicum
Martínez Subiela	Silvia	Associate Professor	PhD	Full Time	Propaedeutic, Veterinary Clinical Pathology, Practicum
Montes Cepeda	Ana María	Full Professor	PhD	Full Time	Medical Pathology, Farm Animal Clinics, Practicum
Murciano Pérez	José	Associate Professor	PhD	Full Time	General Surgical Pathology & Surgery, Special Surgical Pathology & Surgery, Practicum
Parrilla Riera	Inmaculada	Associate Professor	PhD	Full Time	Reproduction & Obstetrics, Practicum
Roca Aleu	Jordi	Full Professor	PhD	Full Time	Reproduction & Obstetrics, Practicum
Sánchez-Valverde García	Miguel Ángel	Full Professor	PhD	Full Time	General Surgical Pathology & Surgery, Special Surgical Pathology & Surgery, Practicum
Soler Laguía	Marta	Contrated Associate Professor	PhD	Full Time	Imaging Diagnosis, Practicum
Sotillo Mesanza,	Juan	Associate Professor	PhD	Full Time	Propaedeutic, Farm Animal Clinics, Practicum
Talavera López	Jesús	Associate Professor	PhD	Full Time	Medical Pathology, Farm Animal Clinics,
Tecles Vicente	Fernando	Associate Professor	PhD	Full Time	Propaedeutic, Veterinary Clinical Pathology, Practicum
Tovar Sahuquillo,	María Carmen	Associate Professor	PhD	Full Time	General Surgical Pathology & Surgery, Special Surgical Pathology & Surgery, Practicum
Zilberschein Juffe,	Jose Mario Juan	Collaborate Professor	PhD	Full Time	General Surgical Pathology & Surgery, Special Surgical Pathology & Surgery, Farm Animal Clinics , Practicum

Departamental affiliation: Animal Health					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Alonso de Vega	Francisco	Associate Professor	PhD	Full Time	Parasitic Diseases, Practicum
Berriatua Fernández de Larrea	Eduardo	Full Professor	PhD	Full Time	Parasitic Diseases, Practicum
Caro Vergara,	María Rosa	Full Professor	PhD	Full Time	Microbiology I, II & Immunology, Practicum
Contreras de Vera,	Antonio	Full Professor	PhD	Full Time	Epidemiology, Zoonosis & Public Health, Practicum
Corrales Romero,	Juan Carlos	Associate Professor	PhD	Full Time	Infectious Diseases I & II, Preventive Medicine & Health Policy, Practicum
Cubero Pablo	María José	Full Professor	PhD	Full Time	Preventive Medicine & Health Policy, Practicum
Cuello Gijón	Francisco	Full Professor	PhD	Full Time	Microbiology I, II & Immunology, Practicum
de la Fe Rodríguez	David Christian	Associate Professor	PhD	Full Time	Infectious Diseases I & II, Practicum
del Río Alonso,	Laura	Associate Professor	PhD	Full Time	Parasitic Diseases, Practicum
Gallego Ruíz	María del Carmen	Associate Professor	PhD	Full Time	Preventive Medicine & Health Policy, Practicum
González Candela	Monica Eva	Associate Professor	PhD	Full Time	Infectious Diseases I & II, Wild Life Ecopathology, Practicum
Goyena Salgado	María Elena	Professional Associate Professor	PhD	Part time	Parasitic Diseases,, Infectious Diseases I & II, Practicum
Martínez-Carrasco Pleite	Carlos	Associate Professor	PhD	Full Time	Parasitic Diseases, Wild Life Ecopathology, Practicum
Muñoz Ruíz	María del Pilar	Associate Professor	PhD	Full Time	Infectious Diseases I & II, Practicum
Ortiz Sánchez	Juana María	Associate Professor	PhD	Full Time	Parasitology, Practicum
Ruíz de Ibáñez Carnero	María del Rocío	Associate Professor	PhD	Full Time	Parasitology, Wild Life Ecopathology, Practicum
Salinas Lorente	Lázaro Jesús	Full Professor	PhD	Full Time	Microbiology II & Immunology, Practicum
Sánchez López	Antonio	Associate Professor	PhD	Full Time	Epidemiology, Zoonosis & Public Health, Practicum

Departamental affiliation: Animal Production					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Burguete Toral	María Isabel	Associate Professor	PhD	Full Time	Genetics
Fuentes García	Francisco Cayetano	Associate Professor	PhD	Full Time	Ethnology and Animal Handling
Gallego Barrera	José Armando	Associate Professor	PhD	Full Time	Agronomy, Practicum
Hernández Ruipérez	Fuensanta	Full Professor	PhD	Full Time	Animal Nutrition
Hevia Méndez	María Luisa	Associate Professor	PhD	Full Time	Ethology, Animal Welfare and Animal Protection
Madrid Sánchez	Josefa	Full Professor	PhD	Full Time	Animal Nutrition, Practicum
Martínez Miró	Silvia	Contrated Associate Professor	PhD	Full Time	Animal Nutrition , Animal Breeding & Welfare, Practicum
Megías Rivas	María Dolores	Full Professor	PhD	Full Time	Agronomy, Practicum
Muñoz Luna	Antonio	Full Professor	PhD	Full Time	Animal Breeding & Welfare
Orengo Femenía	Juan	Associate Professor	PhD	Full Time	Animal Nutrition, Practicum
Otal Salaverri	Julio	Contrated Associate Professor	PhD	Full Time	Ethnology and Animal Handling, Animal Husbandry, Farm Facilities & Welfare
Quiles Sotillo	Alberto José	Associate Professor	PhD	Full Time	Animal Husbandry, Farm Facilities & Welfare
Ramírez de la Fe	Antonio Rafael	Associate Professor	PhD	Full Time	Animal Husbandry, Farm Facilities & Welfare, Practicum
Ramís Vidal	Manuel Guillermo	Associate Professor	PhD	Full Time	Animal Breeding & Welfare, Animal Farm Clinic, Practicum
Rouco Yáñez	Antonio José	Associate Professor	PhD	Full Time	Agrarian Economy, Statistics and Business (Management & Marketing), Practicum

Departamental affiliation: Food technology, Human Nutrition and Food Science					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Álvarez Álvarez	Daniel	Profesional Associate Professor	PhD	Full Time	Food Technology, Practicum
Bañón Arias	Sancho	Associate Professor	PhD	Part Time	Food Technology
Garrido Fenández	M <sup>a</sup> Dolores	Associate Professor	PhD	Part Time	Food Technology
Linares Padierna	M <sup>a</sup> Belén	Contrated Associate Professor	PhD	Full Time	Food Technology, Practicum
López Morales	Belén	Associate Professor	PhD	Full Time	Food Technology
Egea Clemenz	Macarena	Profesional Associate Professor	PhD	Part Time	Food Technology, Food Security, Practicum
Ortuño Casanova	Jordi	Profesional Associate Professor	PhD	Part Time	Practicum
Ros Garcia	José M <sup>a</sup>	Associate Professor	PhD	Full Time	Food Technology
Domenech Asensi	Guillermo	Profesional Associate Professor	PhD	Part Time	Food Hygiene, Inspection & Control I, Practicum
Jiménez Román	Jorge Mariano	Profesional Associate Professor	PhD	Part Time	Food Hygiene, Inspection & Control II
Martínez Gracia	Carmen	Associate Professor	PhD	Full Time	Food Hygiene, Inspection & Control II, Practicum
Martínez Tomé	Magdalena	Associate Professor	PhD	Full Time	Food Hygiene, Inspection & Control II, Practicum
Díaz Molins	Pedro	Profesional Associate Professor	PhD	Part Time	Food Hygiene, Inspection & Control I, Food Hygiene, Inspection & Control II
Periago Castón	M <sup>a</sup> Jesús	Full Professor	PhD	Full Time	Food Hygiene, Inspection & Control I, Food Security
Ros Berruezo	Gaspar	Full Professor	PhD	Full Time	Practicum
Ros Chumillas	María	Profesional Associate Professor	PhD	Part Time	Food Security, Practicum
Santaella Pascual	Javier	Profesional Associate Professor		Part Time	Food Hygiene, Inspection & Control II, Practicum

Departamental affiliation: Biochemistry and Molecular Biology A					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Aranda Martínez	Francisco José	Full Professor	PhD	Full Time	Biochemistry
Fernández Belda	Francisco	Full Professor	PhD	Full Time	General and Molecular Biology
Gómez Fernández	Juan Carmelo	Full Professor	PhD	Full Time	Biochemistry
Ortiz López	Antonio	Full Professor	PhD	Full Time	Physics and Chemistry
Teruel Puche	José Antonio	Full Professor	PhD	Full Time	Physics and Chemistry



Departamental affiliation: Pharmacology					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Cárceles Rodríguez	Carlos Mario	Full Professor	PhD	Full Time	Pharmacy & Pharmacology, Pharmacotherapy, Practicum
Escudero Pastor	Elisa	Full Professor	PhD	Full Time	Pharmacy & Pharmacology, Pharmacotherapy, Practicum
Espuny Miró	Alberto	Professional Associate Professor	PhD	Part Time	Pharmacy & Pharmacology,
Fernández Varón	Emilio	Associate Professor	PhD	Full Time	Pharmacy & Pharmacology

Departamental affiliation: Physiology					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Coy Fuster	María Pilar	Full Professor	PhD	Full Time	Veterinary Physiology I, II
Gadea Mateos	Joaquín Jerónimo	Full Professor	PhD	Full Time	Veterinary Physiology I, II
García Vázquez	Francisco Alberto	Contracted Associate Professor	PhD	Full Time	Veterinary Physiology I, II
Matás Parra	Carmen	Full Professor	PhD	Full Time	Veterinary Physiology I, II
Romar Andrés	Raquel	Associate Professor	PhD	Full Time	Veterinary Physiology I, II
Ruiz López	Salvador	Full Professor	PhD	Full Time	Veterinary Physiology I, II

Departamental affiliation: Socio-Sanitary Science					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Aldeguer Aldeguer	María Paz	Professional Associate Professor	PhD	Full Time	Deontology, Legal Medicine & Veterinary Legislation, Toxicology
García Fernández	Antonio Juan	Full Professor	PhD	Full Time	Toxicology, Practicum
Jiménez Montalbán	Pedro Javier	Professional Associate Professor	PhD	Part Time	Deontology, Legal Medicine & Veterinary Legislation, Toxicology, Practicum
María Mojica	Pedro	Professional Associate Professor	PhD	Part Time	Deontology, Legal Medicine & Veterinary Legislation, Toxicology, Practicum
Martínez López	Emma	Associate Professor	PhD	Full Time	Toxicology, Practicum
Navas Ruiz	Isabel M <sup>a</sup>	Professional Associate Professor	PhD	Part Time	Toxicology
Romero García	Diego	Associate Professor	PhD	Full Time	Deontology, Legal Medicine & Veterinary Legislation, Toxicology, Practicum

Departamental affiliation: Zoology and Physical Anthropology					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Ortiz Cervantes	Antonio Salvador	Associate Professor	PhD	Full Time	General and Molecular Biology
Serrano Marino	José	Full Professor	PhD	Full Time	General and Molecular Biology

Departamental affiliation: Statistics and Operational Research					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Cano Sánchez	Juan Antonio	Full Professor	PhD	Full Time	Statistics and Business (Management & Marketing)
Fernández Hernández	José	Associate Professor	PhD	Full Time	Statistics and Business (Management & Marketing)

Departamental affiliation: Physical					
Last name	First name	Qualification	PhD	FTE	Teaching responsibilities
Ruiz Martínez	Jesús	Associate Professor	PhD	Full Time	Physics and Chemistry



## Appendix 2.A. Units of study of the core veterinary programme (including clinical rotations, EPT and graduation thesis).

### 1<sup>st</sup> year

#### Statistics & Business (management & marketing)

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2786	6	1st/1st	Lectures	28	<b>STATISTICS</b>
			Seminars	13	To apply the scientific method to professional practice, including evidence-based medicine.
			Supervised self learning	30	To synthesize, solve problems and make decisions.
			Laboratory	20	To develop a capacity for critical evaluation of a statistician.
			Tutoring	3	To apply the concepts of statistics in the analysis of productive and health parameters
					To use statistical methods relevant to different types of studies.
					To tabulate and graphically represent data.
					To calculate and interpret the position, dispersion and shape measures applicable to a data series.
					To recognize the most common one-dimensional statistical distributions in the veterinary field.
					To recognize and describe the fundamentals of causality and causal inference, and their relationship to statistics.
					To select, apply and interpret the parametric and non-parametric statistical methods most commonly used in veterinary medicine.
					To correctly assess the effectiveness of a diagnostic test in terms of its application to a population.
					<b>BUSINESS</b>
					To demonstrate knowledge of the organization and management related to a veterinary company.
		To understand the economic context in which the veterinarian operates.			
		To demonstrate effective interpersonal interaction, including communication, leadership, management and teamwork.			

#### Physics & Chemistry

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2787	6	1st/1st	Lectures	51	Describe in thermodynamic terms a physical-chemical process.
			Seminars	9	Evaluate the rate of a chemical reaction, the effect of concentrations and temperatura.
			Supervised self learning	9	Know the main types of radioactive and electromagnetic emission, as well as the effect on biological materials and their applications.
			Laboratory	9	Explain the processes of diffusion through membranes, and the behavior of a dialytic membrane.
			Tuition	3	Understand the behavior of acids and bases, and determine the pH of their solutions.
					Evaluate oxidation-reduction reactions, and describe processes of electrolysis and electrochemical cells.
					Know the main functional groups present in organic compounds and their reactivity.
					Describe the stereochemistry of organic molecules.
					Know the most important heterocycles relevant in the field of cellular biology.
					Identify the fundamental magnitudes of physics such as length, mass, temperature and time that appear in problems related to the life sciences.

					Know the bases of biomechanics and their application to the structure and movement of living beings.
					Know the basic principles of fluid mechanics and its application to the circulatory system in mammals.
					Know the basic concepts of waves and wave phenomena and their application to the mechanisms of hearing of living beings.
					Apply the concepts of electromagnetism to the study of the nervous system.
					Apply the basic concepts of optics for the design of optical instruments and the process of vision.

#### Biology & Molecular Biology

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2788	6	1st/1st	Lectures	43	Define the principles and methods of animal classification.
			Seminars	4	Describe and identify the different levels of animal organization.
			Supervised self learning	6	Apply dissection methods for the observation and analysis of the internal anatomy of specimens representative of the major animal groups of veterinary interest.
			Laboratory	21	Interpret the development, growth and biological cycles of the major animal taxa of veterinary interest.
			Tutoring	4	Observe, manage and preserve animal specimens.
					Recognize the morphology of the the main animal taxa of veterinary interest.
					Knowledge of essential concepts related to nucleic acids and their relationship to proteins.
					Study of structural data using molecular models and learning of experimental techniques for the study of nucleic acids.
					Ability to answer questions related to the subject after a bibliographic search

#### Biochemistry

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2789	6	1st/1st	Lectures	43	Establish the concept of biochemistry, its aims, achievements and methods, highlighting the molecular approximation of vital phenomena in the cellular context.
			Seminars	6	Distinguish the structures of the main biological molecules and know their functional groups.
			Supervised self learning	6	Expose the fundamentals of enzyme, especially aspects of catalytic efficiency, specificity and regulatory effects.
			Laboratory	15	Analyze the principles of bioenergetics, which help explain the cell's energy intake from nutrients, as well as their storage and use.
			Tutoring	8	Explain the cellular compartmentalization carried out by the membranes and the transport processes that provide the cell with the necessary nutrients and the disposal of waste substances.
					Explain the main metabolic pathways of biomolecules relating them and establishing the energy and regulatory aspects that take place in these transformations, directed to the cellular economy.
					Establish the different molecular bases of different physiological and pathological processes.
					Show the role of signaling molecules in the coordination of cellular functions.
					Provide an integrated view of metabolism in different tissues and know their responses before different physiological situations.

#### Anatomy I

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2790	6	1st/1st	Lectures	29	To know and apply basic knowledge on the structure and general constitution of the common integument and the locomotive apparatus of domestic animals.
			Seminars	4	To locate in the living animal the main visible and palpable references of the locomotor apparatus.
			Supervised self learning	6	To interpret at basic level anatomical images by means of different diagnostic imaging (RX, CT and MRI).
			Non-clinical animal work	36	To properly apply the anatomical syllabus and its possible variations in different professional fields.
			Tutoring	3	To dissect cadavers or anatomical preparations.
					To work both autonomously and in a reduced team during practices.

					To extrapolate the anatomical knowledge to particular professional contexts.
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Anatomy II					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2791	6	1st/2nd	Lectures	29	Describe and recognize the morphology, topography and structure of organs and systems.
			Seminars	4	Identify anatomical structures located in the nasal, buccal, pharyngeal and laryngeal cavities, in dissections of different species.
			Supervised self learning	6	Identify the anatomical structures located in the visceral space of the neck and in the thoracic, abdominal and pelvic cavities of domestic species in dissections and cross-sections (fixed and plastinated), as well as in CT and MRI images.
			Non-clinical animal work	36	Anatomical knowledge of the male and female external genitalia in different domestic species.
			Tutoring	3	Basic and applied knowledge of bird anatomy.
					Ability to extrapolate the knowledge and skills acquired in the subject to a professional context .

Microscopic Anatomy & Histology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2792	6	1st/2nd	Lectures	29	Full knowledge of the concept of cell, tissue and organ.
			Seminars	4	To know the techniques of study and observation in cytology and histology
			Supervised self learning	6	To know the structural and ultrastructural characteristics of the eukaryotic cells and their components, relating them to their functions in the context of cellular biology.
			Laboratory	36	To know the different varieties of animal tissues, their morphological and functional characteristics and their distribution in the organism.
			Tutoring	3	To know the organization of the tissues to build the organs.
					To know the histological constitution of the organs, and deduce their function and understand potential anatomopathological and functional alterations.

Veterinary Physiology I					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2793	6	1st/2nd	Lectures	29	Know the general functions and importance of water and electrolytes in the body. Identify the different compartments with fluids and know the relative concentration of ions in them. Know the main functions of blood and its role in homeostasis.
			Seminars	8	Understand the basic principles of circulatory function, blood flow, electrocardiography, blood pressure, capillary dynamics and cardiac regulation. Ability to apply the knowledge acquired for the diagnosis of cardiovascular disorders in animals.
			Supervised self Learning	12	Know the functioning of the respiratory system. Understand the importance of respiratory physiology in the maintenance of homeostasis. Ability to apply the knowledge of the functioning of the respiratory system for the diagnosis of respiratory disorders in animals.
			Laboratory	24	Know the operation of the excretory system. Understand the importance of renal physiology and its clinical repercussion with other systems and organs. Ability to apply the functional knowledge of the excretory system for the diagnosis of alterations of the excretory system in animals.
			Non-clinical animal work	8	Know the functioning of the digestive system. Understand the basic principles of digestive function. Ability to apply the knowledge of the functioning of the digestive system for the diagnosis of digestive disorders in animals, their application in animal production and food safety.
			Tutoring	3	Know the syllabus that is used in the discipline and the laws, principles, scientific methods and basic experiences of the subject.
				Ability of oral and written expression appropriate to the terminology proper of a veterinary professional.	
				Ability to work as a team during the course practices.	

Genetics and Molecular Genetics					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2794	6	1st/2nd	Lectures	43	Knowledge and differentiation of genetic material in different groups of living organisms.
			Seminars	10	To identify the chromosomes between different species of domestic animals.
			Supervised Self learning	16	Analyze the patterns of Mendelian and non-Mendelian inheritance and interpret the results obtained.
			Laboratory	14	To evaluate the possible cases of gene interaction, ligation and recombination.
			Tutoring	4	Knowledge of the main processes that regulate the transfer of information, as well as its expression, in both prokaryotes and eukaryotes.
					To analyze the different mutations and their consequences, at the level of genomic variability, on populations and pathology
					Describe and analyze the state of equilibrium of a population, its evolution and conservation.
					Knowledge and application of different biotechnological methods; genomics and proteomics. Evaluate their use.
		Elaborate and transmit new knowledge in an oral and written way to other professionals or the public in general.			

Agronomie					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2796	3	1st/2nd	Lectures	18	To identify the main vegetable groups for animal feed.
			Seminars	4	To indicate at least five attributes that describe a sustainable and one unsustainable production.
			Supervised Self learning	6	To point out at least five attributes that describe different types of plant surfaces.
			Laboratory	7	To identify the main groups of by-products destined for animal feed.
			Non-clinical animal work	6	To identify and implement the conservation systems used for plant production.
			Tutoring	1	To recognize at least five positive or negative attributes of an agricultural-livestock operation on the environment.

Deontology, Legal Medicine and Veterinary Legislation					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2795	3	1st/2nd	Lectures	21	Knowledge of deontological codes for the exercise of the veterinary profession.
			Seminars	5	Acquisition of the bases for veterinary expertise and intervention in legal and forensic tissues.
			Supervised Self learning	6	Correct management of legislation sources.
			Laboratory	7	
			Tutoring	5	

## 2<sup>nd</sup> year

Animal Nutrition					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2807	9	2nd/1st & 2nd	Lectures	54	To describe the different analytical techniques for the determination of the chemical constituents in ingredients and feed, and knows its practical application.
			Laboratory	21	To identify and describe macroscopically and microscopically the raw materials commonly used in the compound feed industry (individually and after mixing): energy concentrates, protein concentrates, fibrous foods and micro-ingredients.
			Supervised self learning	11	To know the regulations for the use of raw materials and additives, and understand its application and information at the level of labeling of feed and mixtures for animal use.

			Non-clinical animal work	17	To define the different stages in the manufacture of feed and analyze the characteristics of storage, transport systems and machinery, as well as justify the importance of quality control of the manufacturing process.
			Tutoring	5	To handle food composition tables and interprets the nutritive value in terms of chemical composition, energy and protein value, and is able to indicate limits of incorporation in compound foods according to the species, physiological and productive state.
					To present and exemplify the nutritional needs of each species according to the type of animal, management conditions and environment, as well as the objectives of each particular farm.
					To formulate and calculate compound feeds or rations by linear programming (modeling mathematically at minimum cost) or by using specific rationing software in feed animals: monogastric and ruminant, and is able to generate and interpret the results reports.
					To know the programs of feeding used in the farms, and recognizes the types, supply and presentation of the feed in both animal of animal and companion animal.
					To evaluate the physical condition and nutritional status of the animal or group, and calculates the main productive parameters (gain, consumption and transformation or efficiency) related to animal feed.

#### Anatomy & Histology Central Nervous System (CNS) & Embryology

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2797	6	2nd/1st	Lectures	29	Basic and applied clinical knowledge on macroscopic and microscopic structures of the visual and statoacoustic organs.
			Seminars	4	Basic and applied clinical knowledge on macroscopic and microscopic structures of the Central Nervous System.
			Supervised Self learning	6	Recognizing the main structures of the eye, ear and Central Nervous System in images obtained by Magnetic Resonance and Computed Tomography.
			Non-clinical animal work	36	Basic and applied clinical knowledge on histology of the reproductive apparatus.
			Tutoring 3	3	Basic and applied clinical knowledge on the early stages of embryonic development in the main domestic species.
					Basic and applied clinical knowledge on placentation and embryo sacks in domestic mammals.
					Basic knowledge on the development of the main organs (organogenesis), knowing how to analyze and understand the most frequent malformations observed in veterinary clinics.
		Correct use the anatomical and embryological veterinary syllabus (Anatomical Veterinary Nomenclature)			

#### Veterinary Physiology II

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2797	6	2nd/1st	Lectures	29	Ability to relate the concept of homeostasis with the organs and tissues that produce hormones, altogether with their function
			Seminars	3	Functional knowledge of the male and female reproductive system, as well as the processes necessary for the reproductive function to be completed (fertilization, gestation, delivery, lactation). To know the endocrine mechanisms that regulate the reproductive function. Understand the importance of reproductive health for production and animal medicine.
			Supervised Self learning	4	Functional knowledge of the Nervous System in the regulation of the functions of relation and of the vegetative functions. To understand the importance of Neurophysiology for the diagnosis of neurological disorders in animals and for understanding the bases of animal behavior.
			Laboratory	24	To know the basic terminology that is used in the discipline and the laws, principles, scientific methods and basic experiences of the subject.
			Non-clinical animal work	8	
			Tutoring	8	Ability to acquire curiosity to learn and enthusiasm to become a professional prepared and responsible in their work.

#### Ethnology and Animal Handling

Ref. Nº	ECTS	Year/Semester	Modes of	Hours	Learning Outcomes
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<b>Instructions</b>					
<b>2799</b>	4,5	2nd/1st	Lectures	32	To recognize the domestic species, their domestication process and the formation of their main breeds.
			Seminars	8	Knowledge of the external morphology of domestic animals, identification of the different morphotypes and their relation to productive aptitudes.
			Supervised self learning	12	
			Laboratory	11	Knowledge of the productive and reproductive parameters of the domestic species and their variability between breeds and ability to identify the breed most appropriate for the different productive management systems.
			Tutoring	3	To use ethnological, productive and animal terminology correctly.
					To know and use in an appropriate way the most important sources of information on the different breeds of domestic animals and their optimal handling.

<b>Ethology, Animal Welfare and Animal Protection</b>					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
<b>2800</b>	4,5	2nd/2nd	Lectures	32	Correctly identify the animal's ethogram.
			Seminars	8	Analyze an ethogram and identify behavioral anomalies.
			Supervised self learning	10	
			Laboratory	5	Evaluate the welfare of domestic animals in the different production systems.
			Field practical work	6	Apply animal protection legislation to ensure the welfare of domestic animals at farm, transport and slaughterhouse, as well as of pets and animals used in research.
			Tutoring	3	

<b>Microbiology I</b>					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
<b>2801</b>	4,5	2nd/1st	Lectures	27	Characterize the main causative agents of microbial diseases of interest in veterinary medicine, and the way to diagnose and control them.
			Seminars	2	
			Supervised self learning	4	Describe and appreciate the role of microorganisms in industrial processes, biotechnology and ecology.
			Laboratory	22	Explain the fundamentals of taxonomy and the basis of systematic bacteriology.
			Tutoring	2	Interpret the microbial diversity, physiology, metabolism and genetic bases that regulate the functions of microorganisms.
					Recognize the role of microorganisms as causal agents of diseases in animals and diseases communicable to humans.
		Recognize the microorganism-host relationship, virulence and microbial pathogenicity mechanisms.			

<b>Microbiology II &amp; Immunology</b>					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
<b>2802</b>	6	2nd/2nd	Lectures	33	Apply basic microbiological techniques in virology and mycology and interpret their results.
			Seminars	7	Write a report of the results of a microbiological examination.
			Supervised self learning	7	To characterize causative agents of viral and mycological diseases of interest in veterinary medicine to diagnose and control them.
			Laboratory	25	Explain the fundamentals of taxonomy and the basis of virus and fungal systematics.
			Tutoring	7	Interpret the diversity of the physiology, metabolism and genetic bases that regulate the functions of viruses and fungi.
					Recognize the role of viruses and fungi as causal agents of diseases in animals and diseases communicable to humans.
					Recognize the microorganism-host relationship, virulence and mechanisms of pathogenicity of viruses and fungi.
					Explain the nature, structure and genetics of viruses.
					Recognize the basis of immunodiagnostic techniques.
		Perform the basic techniques of immunological diagnosis.			



					Perform a serological test report.
					Describe the main types of vaccines.

Parasitology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2803	4,5	2nd/1st	Lectures	27	To understand the importance of parasites in the field of animal health, public health and animal production.
			Seminars	2	To use a scientific vocabulary that allows a correct use of language in Parasitology, as well as to correctly apply the nomenclature and the systematics of the parasites.
			Supervised self learning	4	Identify by its morphology the different parasites of veterinary interest.
			Laboratory	22	To know the biology and ecology of the main parasites of veterinary interest.
			Tutoring	3	To understand the principles supporting the relationship between parasites and hosts.
					To perform basic diagnostic techniques in parasitology and analyze their results.

Nosology & Physiopathology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2804	6	2nd/2nd	Lectures	36	Describe the main components of the nosology.
			Seminars	6	Explain the concepts of health and illness.
			Laboratory	25	To know and explain the fundamentals on which the different clinical judgments are based.
			Tutoring	5	To know the relationship between the Veterinarian and the owner of the animal regarding the establishment of links, maintenance of links and rupture of links.
					To know the pathophysiological mechanisms of the different organic systems as well as their clinical consequences.

General Pathological Anatomy					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2805	3	2nd/2nd	Lectures	18	Acquire a vocabulary that allows to define properly the pathological processes.
			Laboratory	18	Understand the mechanisms that induce morpho-pathological changes, and how they induce functional alterations.
					Recognize and identify basic lesions, relating them to their etiology.

Epidemiology, Zoonosis & Public Health					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2806	6	2nd/2nd	Lectures	36	Apply knowledge related to collective diseases, zoonoses and health by means of problem solving and argumentation.
			Laboratory	40	Collect and interpret relevant information concerning collective diseases, zoonoses and health.
			Farm animal work	3	Communicate information relating to collective diseases, zoonoses and health.
			Tutoring	3	Ability to search information in bibliographic sources and databases, selecting the most relevant in each case.

### 3<sup>rd</sup> year

Pharmacy & Pharmacology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2809	6	3rd/1st + 2nd	Lectures	52	To understand and apply the main concepts, principles and laws on which the subject is based, as well as the knowledge of the specific terminology used in it.
			Seminars	3	To know and understand the different groups of drugs and their mechanisms of action from the experimental, therapeutic and toxic perspectives. Explain and analyze the mechanism of molecular and cellular action of drugs and their effect (pharmacodynamics).

			Supervised self learning	3	To know, understand and value the processes that govern the evolution of drugs in their transit through the animal organism, taking into account inter-specific and interracial variations and evaluate the importance of these processes in the clinical application of drugs (Pharmacokinetics).
			Farm animal work	3	To understand and interpret legislation that affects prescribing and dispensing of medicines, and guidelines for the responsible use of medicines, including the responsible use of antimicrobials and antiparasitics.
			Laboratory	15	To collaborate with the National Veterinary Pharmacovigilance Program and understand its importance, as well as disseminate and discuss incidents with other colleagues and other health professionals.
			Tutoring	3	To maintain and manage a personal kit suitable for clinical use.

## Special Pathological Anatomy

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2810	9	3rd/1st + 2nd	Lectures	54	To make necropsies of mammals and birds correctly.
			Seminars	13	To describe the lesions of the organs correctly.
			Supervised self learning	14	To write necropsy reports.
			Clinical rotations	47	To diagnose lesions from the organs.
			Tutoring	5	To relate the lesions of the organs with the etiology.

## Parasitic Diseases

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2815	9	3rd/1st + 2nd	Lectures	54	To communicate in a correct oral and written form in the Spanish language.
			Seminars	10	To understand and use documents and books on parasitic diseases written in English language.
			Supervised self learning	15	To analyze and synthesize information relevant to parasitic diseases and apply knowledge in practice.
			Laboratory	8	To recognize the different animal parasitic diseases through the symptoms and injuries present in the animals, as well as their consequences in the animal collectives. Also how to prevent them, with special emphasis on zoonoses and notifiable diseases.
			Clinical rotations	43	To know the procedure to collect samples in cases of suspicion of parasitic diseases and how to send them with their corresponding report to the laboratory.
			Tutoring	5	To perform diagnostic techniques and understand the results for the identification of the most common parasitic diseases, using different general and instrumental techniques.
					To know the measures of control and eradication of the parasitic diseases, with special attention to the notifiable diseases and zoonosis.

## Propaedeutics

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2808	6	3rd/1st	Lectures	38	Obtain a precise clinical history of both an individual animal and a group of animals, with regards to their environment.
			Seminars	7	Handle and restrain animals safely and respectfully, and be able to instruct others to help the veterinarian perform these procedures.
			Supervised self learning	10	Perform a complete clinical examination and demonstrate the ability to make clinical decisions based on the data obtained.
			Clinical rotations	30	Collect, preserve and transport samples of all types, select the most appropriate diagnostic tests, interpret them and understand the limitations of the results of those tests.
			Tutoring	3	Perform complete analyzes of blood, urine and cytology samples, interpret the results and make clinical decisions based on them.
					Perform and correctly interpret an electrocardiogram.

## Imaging diagnosis

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2811	4,5	3rd/2nd	Lectures	29	Identify the different imaging diagnostic techniques.

			Seminars	6	Analyze and interpret an x-ray and ultrasound.
			Supervised self learning	14	Correctly use the terminology in each diagnostic imaging medium (radiology, ultrasound, computed tomography and magnetic resonance imaging).
			Clinical rotations	24	Apply different radiographic and ultrasound models of each lesion in each functional system or apparatus.
			Tutoring	2	Produce a list of differential diagnoses according to the radiographic and ultrasound signs observed.
					Evaluate other the potential use of other imaging techniques to reach the definitive diagnosis.
					Position the animal correctly for x-rays of the different anatomical regions (head, spine, thorax, abdomen, pelvis and extremities).
					Calculate the radiographic exposure parameters for the radiographs of the different anatomical regions.
					Correct use of the radioprotection elements of the X-ray room to perform x-rays, thus protecting against ionizing radiation.
					Recognize the usual artifacts that appear on the ultrasound images.

Veterinary Anaesthesia					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2812	4,5	3rd/2nd	Lectures	22	To know and describe the effect and clinical use of sedatives, analgesics, general anesthetics, local anesthetics or other drugs commonly used in veterinary anesthesia.
			Seminars	6	To know the importance of the pre-anesthetic evaluation of the patient and to know how to perform it in its fundamental aspects including the ASA categorization.
			Supervised self learning	5	To know and describe the diverse techniques for the control of the pain and to know how to design rational protocols of multimodal analgesia including fundamental locoregional techniques.
			Clinical rotations	31	To identify the anesthetic peculiarities of the different animal species.
			Tutoring	2	To know the signs of anesthesia and adequate analgesia and analyze the information of the anesthetic monitoring, making the appropriate decisions.
					Recognize and safely handle anesthetic equipment.
					To know and describe protocols of anesthetic and analgesic management according to the needs of the patient in its more general aspects.
					Acquire manual skills that allow the dosage and safe administration of the fundamental products in anesthesia, maintain permeable airway, have vascular access, monitor the patient and ensure a safe recovery.
		Recognize the most frequent accidents and anesthetic complications, describing the basic lines of action and treatment			

Infectious Diseases I					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2813	4,5	3rd/1st	Lectures	27	Apply knowledge related to infectious diseases of veterinary interest through problem solving and argumentation.
			Seminars	5	To collect and interpret relevant information on infectious diseases of veterinary interest.
			Supervised self learning	8	To transmit information on infectious diseases of veterinary interest.
			Laboratory	4	To search information in bibliographic sources and databases, selecting the one that is relevant.
			Clinical rotations	21	Correctly displays the results of the clinical practices and the assigned seminar. It is adequately expressed with owners and technicians during external clinical practices.
			Tutoring	2	Make a presentation about the clinical practices and seminars supported by the use of ICTs.
					Develop a seminar work in a coordinated and effective manner.
					To use of language correctly with other veterinary technicians or owners during outpatient clinic visits to farms.
					To design and select the correct strategy for diagnosis, treatment, prevention and control of clinical cases in the laboratory.
					To carry out the diagnosis of clinical cases in the laboratory.
		To recognize the animal diseases, as much for the symptoms of animals as for the repercussions in the collective. Recognize what diseases can be transmitted to humans and what is the protocol to be			

					reported to the authorities.
					To select samples suitable for laboratory diagnosis in external clinical practices.
					To critically analyze a clinical history and differentiate information of interest for the resolution of cases.
					To perform and interpret correctly the basic microbiological techniques for the diagnosis of infectious diseases in the laboratory.
					To perform necropsy and collect and process samples suitable for laboratory diagnosis.
					To analyse and evaluate the different health parameters in a community (microbiological, serological data, etc.)
					To decide the correct methodology to apply for the diagnosis of the clinical cases that are addressed in the laboratory or in the practices of external clinic.
					To select the best strategies of fight in each case for the control of different infectious diseases.
					To distinguish the major infectious diseases of veterinary interest and apply measures for diagnosis, prevention and control.
					To identify the main mechanisms of transmission and maintenance of the main infectious diseases of veterinary interest.

Infectious Diseases II					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2814	4,5	3rd/2nd	Lectures	27	Apply knowledge related to infectious diseases of veterinary interest through problem solving and argumentation.
			Seminars	5	To collect and interpret relevant information on infectious diseases of veterinary interest.
			Supervised self learning	8	To transmit information on infectious diseases of veterinary interest.
			Laboratory	4	To search information in bibliographic sources and databases, selecting the one that is relevant.
			Clinical rotations	21	Correctly displays the results of the clinical practices and the assigned seminar. It is adequately expressed with owners and technicians during external clinical practices.
			Tutoring	2	Make a presentation about the clinical practices and seminars supported by the use of ICTs.
					Develop a seminar work in a coordinated and effective manner.
					To use of language correctly with other veterinary technicians or owners during outpatient clinic visits to farms.
					To design and select the correct strategy for diagnosis, treatment, prevention and control of clinical cases in the laboratory.
					To carry out the diagnosis of clinical cases in the laboratory.
					To recognize the animal diseases, as much for the symptoms of animals as for the repercussions in the collective. Recognize what diseases can be transmitted to humans and what is the protocol to be reported to the authorities.
					To select samples suitable for laboratory diagnosis in external clinical practices.
					To critically analyze a clinical history and differentiate information of interest for the resolution of cases.
					To perform and interpret correctly the basic microbiological techniques for the diagnosis of infectious diseases in the laboratory.
					To perform necropsy and collect and process samples suitable for laboratory diagnosis.
					To analyse and evaluate the different health parameters in a community (microbiological, serological data, etc.)
		To decide the correct methodology to apply for the diagnosis of the clinical cases that are addressed in the laboratory or in the practices of external clinic.			
		To select the best strategies of fight in each case for the control of different infectious diseases.			
		To distinguish the major infectious diseases of veterinary interest and apply measures for diagnosis, prevention and control.			
		To identify the main mechanisms of transmission and maintenance of the main infectious diseases of veterinary interest.			

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2816	6	3rd/2nd	Lectures	36	Identify the main mechanisms of acute and chronic toxic action in living beings, with special focusing in the interspecific differences, including human beings.
			Seminars	7	Know the main chemical, biological or physical agents (natural or synthetic) able to induce an acute or chronic toxic process in living beings (human included) or in the environment.
			Supervised self learning	14	Knowledge of the residues (drugs, additives, contaminants, zootechnic products, etc) in food, with potential risk on human and animal health.
			Laboratory	18	Knowledge the environmental contaminants with potential risk on human and animal health.
			Clinical	15	Apply toxicological and regulatory bases to guarantee the safety of the drugs, and additives.
			Tutoring	3	Know and decide on the toxicity and ecotoxicity tests to be used in food risk assessment and environmental risk assessment.
					Interpret correctly the basic chemico-toxicological techniques, and the results obtained on food and environmental samples for their use in risk assessment.
					Apply knowledge related to clinical poisoning through problem solving and argumentation
					Recognize toxic processes in animals, both by the symptoms and the observation of the environment.
					Perform and interpret correctly the basic chemico-toxicological techniques, and their results, for the diagnosis of acute or chronic poisoning depending on the clinical or forensic perspective in every case.
					Collect and interpret relevant information on toxic processes and their consequences from the clinical, forensic, food, and environmental perspectives.
					To transmit information about toxic processes from the clinical, forensic, food, and environmental perspectives.
					To search for information in bibliographic sources and databases, selecting the one that is relevant depending on the clinical, forensic, food, and environmental perspectives.
					It shows correctly the results of the clinical and laboratory practices and the seminars. It is adequately expressed with owners and technicians during external clinical practices.
					Design and select the correct strategy for the diagnosis, treatment, prevention and control of clinical cases in the laboratory, and in the field.
					Decide the correct methodology to apply for the diagnosis of clinical or forensic cases that are addressed in the laboratory or in the practices of the external clinic.
		Select samples suitable for laboratory diagnosis in food, environmental, clinical, and forensic practices.			
		Critically analyze a clinical history and differentiate information of interest for the resolution of cases.			
		Knowledge of the descontamination processes to be applied in acute poisoning with special interest in gastric descontamination methods.			
		Use language correctly with other technicians or owners during field practices, and with the law administration in forensic cases.			
		Elaborate a report on clinical, and laboratory practices and seminars supported by the use of the adequate scientific references.			

### 4<sup>th</sup> year

Medical Pathology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2823	12	4th/1st-2nd	Lectures	58	Communicate effectively with clients, the public, veterinary partners and responsible authorities, using language appropriate to the interested audience.
			Seminars	17	Understand and apply the principles of clinical knowledge, and practice evidence-based veterinary medicine.
			Supervised self learning	11	Obtain the relevant and accurate history of an individual animal or group of animals and their environment.

			Clinical rotations	82	Conduct a complete clinical examination and demonstrate clinical decision-making capacity.
			Tutoring	6	Develop appropriate treatment plans and administer treatments in the interest of patients and in relation to available resources.
					Attend small animals and horses in an emergency and perform first aid.
					Collect, store and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of test results.
					Understand the contribution that imaging techniques and other diagnostic tests can make to make a diagnosis.
					Prescribe and dispense medicines correctly and responsibly in accordance with recent legislation and guidelines.
					Recognize when a euthanasia is appropriate to perform.

Reproduction & Obstetrics					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2824	12	4th/1st-2nd	Lectures	58	To know the physiological and endocrine basis of the reproduction that lead to the production of gametes, fertilization and pre-implantational embryonic development in the domestic species.
			Seminars	17	To know the physiological basis of the different existing methods to induce and synchronize the oestrus in the female of the domestic species, applying the most adequate protocol in each situation.
			Supervised self learning	11	To know and perform different modalities of artificial insemination, as well as biotechnological manipulations of the semen in the different domestic species.
			Clinical rotations	82	To know the reproductive biotechnologies applied to the embryos of the different domestic species.
			Tutoring	6	To know the mechanisms of the establishment and maintenance of the gestation that trigger the delivery in different species of domestic interest and to recognize the importance of the physiological bases of the puerperium and the lactation.
					To identify when it is necessary to perform labor induction, as well as a therapeutic abortion in different domestic species and to apply the appropriate treatments for each situation.
					To know the importance of proper fetal development and how pelvimetry is necessary to satisfactorily solve a dystocic delivery.
					To diagnose and solve obstetric and postpartum problems
					To identify and solve problems of the reproductive system and to apply appropriate medical and surgical treatments in different domestic species.
		To identify, treat properly and prevent problems affecting newborns.			

Animal Husbandry, Farm Facilities & Welfare					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2825	9	4th/1st-2nd	Lectures	54	To know the basis of animal husbandry with regards to the traditional and current systems.
			Seminars	11	To correctly optimize different animal husbandry systems and their impact on the environment.
			Supervised self learning	41	To know and correctly use different reproductive strategies and procedures applied to animal husbandry.
			Laboratory	20	To know and understand the core topics with regards to livestock facilities and environmental hygiene.
			Non-clinical animal work	17	To know and correctly manage the productive parameters of an animal collective, considering its economic and welfare aspects.
			Tuition	5	To correctly manage the specific protocols and technologies designed to modify and optimize the different systems of animal husbandry.

Food Technology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2827	9	4th/1st-2nd	Lectures	59	To control the production and the elaboration of foodstuffs from the primary stage until the consumer.
			Seminars	9	Identify the technological processes that take place during the food manufacturing in the Food Industry.
			Supervised self learning	11	Identify the main biological, chemical and physical hazards that can affect food safety in the different food companies.
			Laboratory	29	Identify the Critical Control Points present in the food product

					elaboration chain in order to know how affect the food security.
			Non-clinical animal work	5	Knowledge of the HACCP as a valuable tool to be applied in the food industry management.
			Tutoring	5	

Pharmacotherapy					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2821	4,5	4th/1st	Lectures	29	To define the fundamental criteria for establishing pharmacological treatments.
			Seminars	6	To design therapeutic and preventive programs according to the standards of animal welfare, animal health and public health.
			Supervised self learning	22	To explain and discuss the pharmacology of agents acting on different organs, systems and apparatus.
			Evidence based medicine study cases	22	To criticize and evaluate the use of drugs according to their active principles and to be aware of the importance of being updated about the emergence of new drugs by searching on relevant sources.
			Tutoring	2	To design pharmacological supporting, symptomatic and etiological treatments.
					To apply economic, sanitary and ethical-legal criteria, when establishing a therapeutics in domestic animals.
					To select the most suitable drug (s) for a correctly diagnosed pathology.
					To rationally choose a pharmacological treatment in a precise patient.
					To identify adverse reactions and interactions of the drugs and analyze the benefit-risk ratio that entails their use.
					To know how evaluate the patient's response and modify the treatment if necessary (therapeutic alternatives).

General Surgical Pathology and Surgery					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2822	4,5	4th/1st	Lectures	22	To know and identify the most frequent surgical diseases mainly in small animals and equids.
			Seminars	6	To perform the diagnosis and treatments in surgical pathologies.
			Supervised self learning	5	To prepare the patient correctly, dress appropriately in the operating room, choose and order the surgical material for each intervention.
			Clinical rotations	31	To properly perform cures and bandages on the traumatized animal.
			Tutoring	2	To know the surgical suture material.
					To perform basic general surgery techniques: cutaneous sutures, sutures in the digestive tract.

Agrarian Economy					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2826	3	4th/2nd	Lectures	22	To understand the economic and social context of the veterinary profession.
			Seminars	4	In a context of sustainability to achieve a basic knowledge of business related to breeding or husbandry of farm animal, as well as those for domestic use, leisure and sports.
			Supervised self learning	6	To know and apply principles of effective personal interaction, including communication, leadership, management and teamwork.
			Laboratory	9	
			Tutoring	1	

Food Hygiene, Inspection & Control I					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2828	6	4th/2nd	Lectures	39	To know the parameters which define food quality in terms of food safety, nutritional quality and organoleptic quality.
			Seminars	6	To identify the main biological, chemical and physical hazards that may affect food safety.
			Supervised self learning	10	To use the main methods of microbiological analysis in hygienic quality of food.
			Laboratory	20	To apply the methods of chemical analysis to determine the chemical composition of food.

			Non-clinical animal work	4	To analyze the quality parameters of honey and eggs, according to the current legislation.
			Tutoring	3	To identify the main changes that food may suffer during food processing, as well as possible alterations and adulterations, and evaluate their impact on food security.
					To know the sanitary criteria that must be followed in the design of the facilities and food establishments, along with the hygienic manipulation, according to the criteria established in the current legislation.
					To know the official control of food products and food establishments, as well as the design of the official control plans of the food chain and the protocols for the accomplishment of the veterinary inspection according to the current legislation, including the procedures of sampling.
					To know the Good Hygienic Practices and the principles of Hazard Analysis and Critical Control Points and their importance to ensure food hygiene and ensure food safety.
					Acquire general knowledge about the hygienic handling of food.
					Relate food security to public health, and know the importance of ensuring food safety to prevent diseases in the human population.
					To know the elements of Risk Analysis as a procedure when establishing measures in the management of food hazards.
					To identify and know the microorganisms that cause food poisoning, the main symptoms, the food involved and the control measures to be applied along the food chain for its control.
					To differentiate the epidemiological characteristics of the main foodborne diseases, their importance within the Epidemiological Surveillance Programs and the investigation and follow-up procedures.

## 5<sup>th</sup> year

### Farm Animal Clinics

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2829	3	5th/1st	Lectures	14	To communicate effectively with farmers, veterinary colleagues and authorities with an appropriate professional language.
			Seminar	4	To understand and use evidence-based veterinary medicine.
			Clinical rotations	21	To obtain the relevant and accurate history of an individual animal or group of animals with regards to their environment.
			Tutoring	1	To perform a complete clinical examination and demonstrate clinical decision-making capacity.
					To manage the farm animals in an appropriate way for clinical practice.
					To know the most frequent clinical disorders of farm animals.

### Special Surgical Pathology

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2830	6	5th/1st	Lectures	29	To perform a correct anamnesis of the patient, use appropriate diagnostic methods and decide the appropriate surgical treatment.
			Seminar	8	To identify and diagnose the main alterations of the locomotor apparatus.
			Supervised self learning	20	To identify lameness due to neurological problems versus traumatic problems.
			Clinical rotations	41	To perform the anterior-drawer-test in the knee for the diagnosis of cranial cruciate ligament rupture.
			Tutoring	3	To perform in cadaver the techniques of thoracotomy and thoracostomy.
					To perform in cadaver a total splenectomy.

### Preventive Medicine & Health Politics

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2831	6	5th/1st	Lectures	36	To apply knowledge, collect information and communicate effectively about the health management programs of each species and the mechanisms of prevention and surveillance of animal diseases.
			Seminars	8	To search information in bibliographic sources and databases, selecting the one that is relevant.
			Supervised self	7	To make a presentation of the contents with regards to the



			learning		seminars with support and use of the TICs.
			Laboratory	33	To solve the practical cases of prevention and surveillance clinical cases, as well as design and select the correct strategy according to the current legislation.
			Tutoring	3	To implement the programs for the control and eradication of animal diseases and the standards of welfare, animal health and public health that regulate animal trade, all according to the current legislation.
					To identify animal diseases, both for the symptoms of animals and for the repercussions on the collective and diseases that can be transmitted to humans.
					To select the Norms and Laws for the prevention, surveillance and movement of animals in different levels of concretion.
					To interpret correctly the legislation for the prevention, surveillance and movement of animals in different levels of concretion.
					To analyze and evaluate correctly the different health parameters in a community.
					To distinguish major infectious diseases of veterinary interest, and to know the sanitary management programs and the mechanisms of action for the diagnosis, prevention and control of the diseases.
					To identify the main mechanisms of transmission and maintenance of major infectious diseases of veterinary interest.

#### Animal Breeding & Welfare

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2832	6	5th/1st	Lectures	36	To know the genetics of populations applied to farm animals.
			Seminars	7	To know the structure of the populations of farm animals.
			Supervised self learning	10	To know the productive parameters that can be improved in each farm species.
			Laboratory	25	To know the correlation between the different productive parameters and evaluate the economic importance of these parameters in each farm species.
			Tutoring	3	To have basic knowledge about the economic objectives of selection
					To know basic and applied principles of the construction of indexes of genetic selection.
					To know the basic concepts of heritability and the phenotypic and genotypic correlations.
					To know the different types of cross-breeding.
					To know the basic and applied principles on genetic selection based on molecular markers.
					To know the genetic regulation of pathologies, of the immune system and its alterations.
					To have basic knowledge about xenotransplantation and allotransplantation.
					To have basic knowledge on the genetic regulation of pharmacological interactions with the animal.
					To know and understand the main molecular techniques, classical PCR, real-time PCR, RFLP, as well as its uses for genetic improvement.
		To apply PCR and ELISA techniques for the diagnosis of diseases in livestock groups, as well as produce and interpret seroperfiles and PCR-profiles.			
		To know how to acquire, analyze and interpret the different productive parameters in the main farm species.			

#### Food Hygiene, Inspection & Control II

Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2833	6	5th/1st	Lectures	39	To analyze the nutritional composition of the food (meat, fish and milk), its organoleptic characteristics and.
			Seminars	6	To recognize the main species of fish and shellfish marketed in Spain.
			Supervised self learning	9	To know the categorization and classification of carcasses and meats, as well as the anatomical differences depending on the species, age and sex.
			Laboratory	15	To know the classification of milk and milk products according to their origin, technological treatment and nutritional composition.
			Non-clinical animal work	6	To know the specific rules of hygiene for products of animal origin, as well as the legislation regarding the official controls of those products.

			Tutoring	4	To know the bromatological alterations that occur in the food throughout its useful life, especially the organoleptic, physical and chemical changes derived from the growth of altering microorganisms.
					To know the importance of the preservation of food of animal origin through the technological processes, and its control, to avoid microbial growth.
					To evaluate the documentation necessary to deliver the animals to the slaughterhouse, according to the animal species (Guides, ICA, DIB, vehicle disinfection heel, etc.)
					To be familiar with the regulations concerning animal welfare during transportation, unloading and storage in a slaughterhouse.
					To know the influence of animal welfare on the quality of the meat.
					To recognize the clinical signs of ill animals potentially hosting transmittable diseases to humans or animals.
					To know the conditions for establishing the suitability of animals for slaughter.
					To know how to proceed to carry out the post-mortem systematic inspection of each animal species.
					To know the injuries and anomalies of the meat that can put at risk human and animal health.
					To be familiar with the regulations for taking samples for the monitoring of TSEs in slaughterhouses, the national residue research plan and the trichinae analysis.
					To know the destination of animal by-products not intended for human consumption (SANDACH).
					To know what the MERs in Spain are, how they should be extracted, stored and destroyed.
					To produce a mock report on the suitability for consumption of a carcasse or animal viscera, according to the ante-mortem and post-mortem inspection.
					To evaluate the hygienic design of slaughterhouses, markets and milking rooms and establish improvement actions to avoid contamination at source.
					To design an HACCP system applied to establishments aimed at producing meat, fish and milk (slaughterhouse, fish markets or milking parlors).
					To know the importance of pollution prevention through good hygiene practices in slaughterhouses, markets or milking parlors.
					To be aware of the biological and chemical hazards associated with meat, fish and milk products, their possible transmission to humans (zoonoses) and other animals, their prevention and control.
					To be familiar with the sampling and microbiological analysis of work surfaces, manipulators, channels, fish or milk, and their critical limits for the verification of correct hygiene practices.

Food Security					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2834	3	5th/1st	Lectures	20	Identify the main biological, chemical and physical hazards that can affect food safety in different food groups and in the different food industries.
			Seminars	5	Identify the main stages of technological processing of food and how they affect food security, identifying those that are considered PCC.
			Supervised self learning	10	Knowledge of the specific prerequisites for specific sectors according to current legislation.
			Laboratory	10	Apply Hazard Analysis and Critical Control Points in different food industries.
			Tutoring	1	Knowledge of specific aspects of the hygienic manipulation of the different food groups and their importance as a prerequisite to implement HACCP.
					Knowledge of the elements of the Risk Analysis as a procedure to be followed when establishing measures in the management of food hazards.

PRACTICUM					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2835	24	5th/2nd	Clinical rotations in VTH	210	To understand the veterinarian's ethical and legal responsibilities in relation to patients, clients, society and the environment.

		Farm rotations in VTF	70	To demonstrate knowledge of the organization, management and legislation related to a veterinary business.
		Abattoir	70	To promote, monitor and maintain health and safety in the veterinary field.
		Food processing plant	35	To demonstrate knowledge of QA systems and apply principles of risk management to your practice.
		<b>EPT</b>	140	To communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate for the interested public.
			525	To write accurate clinical and client records, and case reports when necessary, in a way that is satisfactory to colleagues and understandable to the public.
				To work effectively as a member of a multidisciplinary team in service delivery.
				To understand the economic and emotional context in which the veterinarian operates.
				To understand and apply principles of clinical governance and practice evidence-based veterinary medicine.
				To demonstrate a lifelong learning ability and a commitment to learning and professional development. This includes recording and reflecting on professional experience and taking action to improve performance and competence.
				To obtain a precise and relevant history of animals, individually or in groups, and their environment.
				To handle and retain animal patients safely and with respect to the animal, and instruct others to assist the veterinarian in performing these techniques.
				To perform a complete clinical examination and demonstrate ability in clinical decision making.
				To define adequate treatment plans and administer treatment in the interest of patients and with regard to available resources.
				To assist all species in an emergency and perform first aid.
				To evaluate the physical condition, well-being and nutritional status of an animal or group of animals and advise the client on the principles of breeding and feeding.
				To collect, store and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of test results.
				To communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate background.
				To understand the contribution that imaging and other diagnostic techniques can make to achieve a diagnosis. Use the basic imaging equipment and perform an effective examination as the case may be, in accordance with good health and safety practices and current regulations.
				To recognize suspected signs of notifiable, notifiable and zoonotic diseases and take appropriate measures, including notification to relevant authorities.
				To prescribe and dispense medicines correctly and responsibly in accordance with legislation and the latest guidance.
				To report suspicion of adverse reactions.
				To apply biosecurity principles, including sterilization of equipment and disinfection of clothing.
				To perform aseptic surgery correctly.
				To secure sedation, general and regional anesthesia, and to apply chemical methods of subjection.
				To evaluate and manage pain.
				To recognize when euthanasia is appropriate and perform it with respect to the animal, using an appropriate method, showing sensitivity to the feelings of the owners and others, taking due account of the safety of the present, and advice on disposal of the cadaver.
				To perform a systematic post-mortem examination, record observations, tissue samples, store and transport them.
				To carry out an ante-mortem inspection of animals destined to the food chain, including attention to aspects of well-being.
				To correctly identify conditions affecting the quality and safety of animal products, to exclude animals whose condition means that their products are not suitable for the food chain.
				To perform inspection of food and feed, including post-mortem inspection of food-producing animals and inspection in the field of food technology.

					To advise and implement appropriate preventive programs for the species and in line with accepted standards of animal health, welfare and public health.
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End Degree Thesis (work)					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2836	6	5th/2nd	Supervised self learning	72	To analyze, synthesize, solve problems and make decisions.
			Tutoring	18	To use the scientific method to professional practice, including evidence-based medicine. Search and manage information related to the professional activity
					To communicate the information obtained during the professional exercise in a fluid, oral and written way, with other colleagues, authorities and society in general.
					To demonstrate knowledge of English to communicate orally and in writing in academic and professional contexts.
					To expose the knowledge and demonstrate the skills acquired in any of the veterinary fields.
					To write and submit professional reports satisfactorily.
					To critically review and evaluate literature and presentations.
					To demonstrate professional skills to contribute to the advancement of veterinary knowledge, in order to improve the quality of animal care and veterinary public health.
					To deal with incomplete information, deal with contingencies, and adapt to change.
					To solve problems in one of the main areas of Veterinary Medicine.
					To recognize personal and professional frontiers, and know how to seek professional advice, assistance and support when necessary.
		To participate in self-audit and peer review processes to improve performance.			

### Electives 3<sup>rd</sup> year

Veterinary History Tauology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2818 (Elective)	3	3rd/1st	Lectures	22	To know the zootechnics of fighting bull ("toro de lidia").
			Seminars	7	To know the different varieties of the fighting bull and their main differences.
			Supervised self learning	11	To know the husbandry of the fighting bull.
			Laboratoy (video)	5	To have a basic knowledge about the main pathological problems of the fighting bull.
			Tutoring	2	To have a basic knowledge about reproduction and nutrition in the fighting bull.
					To know the functions of the veterinarians who act in the area while the bullfighting.

Wild Life Ecopathology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
2819 (Elective)	3	3rd/1st	Lectures	12	To make a report on contents related to Ecopatology.
			Seminars	6	Participate in flipped class-room activities in a coordinated and effective way.
			Clinical work	12	To express correctly with other veterinarians or owners during outpatient clinic visits.
			Tutoring	6	To apply knowledge related to Ecopatology through problem solving and argumentation.
					To identify some of the major etiological agents that affect the various species of wild animals, including carnivores, ungulates, birds, amphibians and reptiles.
					To distinguish between different approaches to the management and control of infectious diseases of wildlife, both in the natural and ex situ environments.
					To evaluate macroscopic lesions and adequately solve sampling for diagnosis of infectious-contagious diseases of the wild animals.

					To distinguish between different approaches to the management and control of infectious diseases of wildlife, both in the natural and ex-situ environments.
					To identify the risk factors, and other epidemiological factors, most important in the occurrence of infectious diseases of the wild animals.
					To apply knowledge related to ecopatology through problem solving and argumentation.

Veterinary Clinical Pathology					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
<b>2820 (Elective)</b>	3	3rd/1st	Lectures	14	To learn how to set up a basic laboratory for veterinary analysis.
			Seminars	7	To know to interpret correctly a haemogram of the most common veterinary species.
			Supervised self learning	9	To know how to interpret correctly serum biochemical profile of the most common veterinary species.
			Laboratory	13	To know basic interpretation of a cytology from masses, organs and body fluids.
			Tutoring	2	

Veterinary History					
Ref. Nº	ECTS	Year/Semester	Modes of Instructions	Hours	Learning Outcomes
<b>2817 (Elective)</b>	3	3rd/1st	Lectures	18	To know the origin of the first veterinary actions that took place before the birth of the Veterinary as science and as a profession.
			Seminars	16	To know basic aspects about animal domestication and its consequences for the development of the humanity.
			Supervised self learning	36	To know the contributions of classical cultures to the development of livestock and the art of curing and preventing animal diseases.
			Tutoring	2	To know what is the Albeitería and who were the Albéitares, highlighting its historical implications worldwide.
					To know when, how and why the first Veterinary Schools in the world were built.
					To know the foundation and development of the Veterinary Schools in Spain.
					To know the most relevant figures of the Spanish and worldwide veterinarians.
		Establish chronologically the most relevant historical facts for the development of Veterinary Medicine worldwide.			



## Appendix 2.B. Alignment of the Curriculum with the ESEVT Day One Competences.

Alignment of the Curriculum of the Degree in Veterinary, FVETUM, UM, with the ESEVT Day One Competences (as approved by the ECCVT on March 2015 and proposed to the EU DG Grow as Appendix 5.4.1 of the EU Directive 2013/55/EU)

### Association between Specific Competences (CE) of the Veterinary Degree (FVETUM) & Day One Competence (EAEVE)

Specific Competences (CE) of the Veterinary Degree (FVETUM)	Day One Competences
● CE1: Generic knowledge of animals, their behavior and identificative features.	16
● CE2: Structure and function of healthy animals.	
● CE3: Breeding, improvement, management and welfare of animals.	16, 20
● CE4: Physical, chemical and molecular aspects of the main processes that take place in the animal organism.	
● CE5: Basic and applied principles of the immune response.	
● CE6: Basic aspects of the different biological agents of veterinary interest.	
● CE7: Knowledge of alterations in the structure and function of the animal organism.	
● CE8: Knowledge and diagnosis of the different animal diseases, both individual and collective, and potential preventive measures, with special emphasis on zoonosis and notifiable diseases.	22, 24, 34
● CE9: General aspects of medical-surgical treatments.	18, 29
● CE10: Knowledge of the technological processes applicable to domestic animals, including those with direct influence on animal and human health.	
● CE11: Knowledge of the optimal management of animal production systems and their impact on the environment.	20
● CE12: Principles of food science and technology. Quality control of processed foods and food safety.	35
● CE13: Knowledge of the organizational, economic and management aspects in all fields of the veterinary profession.	2
● CE14: Knowledge of the Norms and Laws applicable to each veterinary field and the regulations applicable to animals and their trade.	25, 26, 27
● CE15: Knowledge of the rights and duties of the Veterinarian, with special emphasis on ethical principles.	1, 32
● CE16: Carrying out the history and clinical examination of the animals.	15, 17
● CE17: Collect and send all types of samples with their corresponding report.	21, 33
● CE18: Perform basic analytical techniques and interpret their clinical, biological or chemical results.	21
● CE19: Diagnose the most common diseases using various general and instrumental techniques, including necropsy.	23
● CE20: Identify, control and eradicate animal diseases, with attention to notifiable diseases and zoonosis.	24
● CE21: Emergency care and first aid in Veterinary.	19
● CE22: Perform the most usual medical-surgical treatments in animals, and know the basics for the provision of adequate anesthesia and analgesia techniques.	18, 26, 27, 28, 29, 30, 31
● CE23: Apply basic procedures to guarantee correct reproductive activity, technological processes in animal reproduction and the resolution of obstetric problems.	
● CE24: Advise and carry out epidemiological studies and therapeutic and preventive programs according to the standards of animal welfare, animal health and public health.	24
● CE25: Evaluate and understand the productive and sanitary parameters of an animal collective, considering the economic and welfare aspects.	20, 36
● CE26: Manage specific protocols and technologies to modify and optimize different animal livestock systems.	20, 36
● CE27: Perform regulated ante-mortem and post-mortem inspection of animals and food intended for human consumption.	33, 34
● CE28: Carry out the sanitary control of different types of companies and establishments of restoration and feeding. Implementation and supervision of quality management systems.	35
● CE29: Conduct risk analysis, including environmental and of biosecurity, as well as their assessment and management.	3, 28
● CE30: Apply food technology processes to produce food for human consumption.	35
● CE31: Advice and management, technical and economic, of veterinary companies in a context of sustainability.	3
● CE32: Analyze, synthesize, solve problems and make decisions in the all fields of the veterinary profession.	3, 7, 14, 17
● CE33: Work in a team, uni or multidisciplinary, and show respect, appreciation and sensitivity to others' work.	6
● CE34: Maintain an ethical behavior with regards to the profession and society.	1, 7
● CE35: Communicate at a professional level with colleagues, authorities and society in general in a fluent, oral and written form.	4, 5, 22
● CE36: Write and present professional reports, always maintaining the necessary confidentiality.	5
● CE37: Search for and manage information related to the veterinary practice.	8
● CE38: Know and apply the scientific method in professional practice including evidence-based medicine.	8, 9
● CE39: Knowledge of how to get professional advice and help.	12, 13
● CE40: Be aware of the need of updated knowledge, skills and attitudes through a continuous professional training.	10, 11, 13

### Association between Specific Competences (ce) of the veterinary degree (**FVETUM**) & the underpinned knowledge and understanding requirements.

Specific Competences (CE) of the veterinary degree (FVETUM)	Underpinned knowledge and understanding requirements
● CE1: Generic knowledge of animals, their behavior and identificative features.	3
● CE2: Structure and function of healthy animals.	2, 3
● CE3: Breeding, improvement, management and welfare of animals.	3
● CE4: Physical, chemical and molecular aspects of the main processes that take place in the animal organism.	3
● CE5: Basic and applied principles of the immune response.	3
● CE6: Basic aspects of the different biological agents of veterinary interest.	5
● CE7: Knowledge of alterations in the structure and function of the animal organism.	2, 5
● CE8: Knowledge and diagnosis of the different animal diseases, both individual and collective, and potential preventive measures, with special emphasis on zoonosis and notifiable diseases.	5, 6, 9, 10
● CE9: General aspects of medical-surgical treatments.	5, 8
● CE10: Knowledge of the technological processes applicable to domestic animals, including those with direct influence on animal and human health.	4
● CE11: Knowledge of the optimal management of animal production systems and their impact on the environment.	4
● CE12: Principles of food science and technology. Quality control of processed foods and food safety.	9, 10
● CE13: Knowledge of the organizational, economic and management aspects in all fields of the veterinary profession.	4
● CE14: Knowledge of the Norms and Laws applicable to each veterinary field and the regulations applicable to animals and their trade.	7
● CE15: Knowledge of the rights and duties of the Veterinarian, with special emphasis on ethical principles.	7
● CE16: Carrying out the history and clinical examination of the animals.	5
● CE17: Collect and send all types of samples with their corresponding report.	5
● CE18: Perform basic analytical techniques and interpret their clinical, biological or chemical results.	5
● CE19: Diagnose the most common diseases using various general and instrumental techniques, including necropsy.	5
● CE20: Identify, control and eradicate animal diseases, with attention to notifiable diseases and zoonosis.	6, 9, 10
● CE21: Emergency care and first aid in Veterinary.	5
● CE22: Perform the most usual medical-surgical treatments in animals, and know the basics for the provision of adequate anesthesia and analgesia techniques.	5
● CE23: Apply basic procedures to guarantee correct reproductive activity, technological processes in animal reproduction and the resolution of obstetric problems.	5
● CE24: Advise and carry out epidemiological studies and therapeutic and preventive programs according to the standards of animal welfare, animal health and public health.	9, 10
● CE25: Evaluate and understand the productive and sanitary parameters of an animal collective, considering the economic and welfare aspects.	4
● CE26: Manage specific protocols and technologies to modify and optimize different animal livestock systems.	4
● CE27: Perform regulated ante-mortem and post-mortem inspection of animals and food intended for human consumption.	9, 10
● CE28: Carry out the sanitary control of different types of companies and establishments of restoration and feeding. Implementation and supervision of quality management systems.	9, 10
● CE29: Conduct risk analysis, including environmental and of biosecurity, as well as their assessment and management.	9, 10
● CE30: Apply food technology processes to produce food for human consumption.	9, 10
● CE31: Advice and management, technical and economic, of veterinary companies in a context of sustainability.	4
● CE32: Analyze, synthesize, solve problems and make decisions in the all fields of the veterinary profession.	1
● CE33: Work in a team, uni or multidisciplinary, and show respect, appreciation and sensitivity to others' work.	1
● CE34: Maintain an ethical behavior with regards to the profession and society.	8
● CE35: Communicate at a professional level with colleagues, authorities and society in general in a fluent, oral and written form.	1
● CE36: Write and present professional reports, always maintaining the necessary confidentiality.	1
● CE37: Search for and manage information related to the veterinary practice.	1, 2
● CE38: Know and apply the scientific method in professional practice including evidence-based medicine.	1, 2
● CE39: Knowledge of how to get professional advice and help.	1, 3
● CE40: Be aware of the need of updated knowledge, skills and attitudes through a continuous professional training.	1, 2



### Association between the subjects of **FVETUM** and Specific Competences (CE, **FVETUM**), Day One Competences, and underpinning knowledge and understanding requirements

Core subject	Subject	Specific Competences (CE, FVETUM)	Day One Competences	Underpinning knowledge and understanding requirements
Statistics and business	Statistics and business (management & marketing)	1,13,31,32,33,36,37,38,39	2,3,5,6,7,8,9,12,13,14,16,17	1,2,3,4
Physics & Chemistry	Physics & Chemistry	4,18,33,38	6,8,9,21	1,2,3,5
Biology	General and Molecular Biology	1,2,4,18,32,33,34,35,38,40	1,3,4,5,6,7,8,9, 10,11,13,14,16,17,21, 22	1,2,3,5,8
Biochemistry	Biochemistry	4,7,18,33	6,21	1,2,3,5
Animal Anatomy	Anatomy I	2,33	6	1,2,3
	Anatomy II	2,33	6	1,2,3
	Microscopic Anatomy & Histology	2,33	6	1,2,3
	Anatomy & Histology Central Nervous System (CNS) & Embryology	2,33	6	1,2,3
Physiology	Veterinary Physiology I	1,2,4,18,32	3,7,14,16, 17,21	1,2,3,5
	Veterinary Physiology II	1,2,4,18,32,33	3,6,7,14,16,17, 21	1,2,3,5
Genetics	Genetics	1,2,17,18,33,35, 36,37	4,5,6,8,16, 21,22,33	1,2,3,5
Identification, Animal Welfare, Ethics & Professional Legislation	Deontology, Legal Medicine & Veterinary Legislation	1,3,8,12,13,14,15,17,18,19,20,27,28,29,32,34,35,36,37,38,39,40	1,2,3,4,5,7,8,9, 10,11,12,13,14,16,17,20,21,22,23,24,25,26,27,28,32,33,34,35	1,2,3,4,5,6,7,8,9,10
	Ethnology and Animal Handling	1,3,14,15,16,32,34,35,37,40	3,4,5,7,8,10,11,13,14,15,16,17,20,22,25,26,27,32	1,2,3,5,7,8
	Ethology, Animal Welfare and Animal Protection	1,3,13,14,15,16,24,25,32,34,35,36,37,40	1,2,3,4,5,7,8,10,11,13,14,15,16,17,20,24,25,26,27,32	1,2,3,4,5,7,8,9, 10
Biological Agents of Disease and Structural & Functional Disorders	Microbiology I	6,18,33,36	5,6,21	1,5
	Microbiology II & Immunology	5,6,18,33	21,6	5,1
	Parasitology	6,18,32,33,36,38	3,5,6,7,8,9, 14,17,21	1,2,5
	Nosology & Physiopathology	2,4,6,38	8,9	1,2,3,5
	General Pathological Anatomy	4,5,7,32,36,38	3,5,7,8,9,14,17	1,2,3,5
Basics of Diagnosis & Therapeutics	Propaedeutics	7,8,17,18,19,32,33,36,37,39,40	3,5,6,7,8,10,11,12,13,14,17,21,22,23,24,33,34	1,2,3,5,6,9,10
	Pharmacy and pharmacology	4,32,33,36,37,39,40	3,5,6,7,8,10,11,12,13,14,17	1,2,3
	Special Pathological Anatomy	7,8,17,19,27,32, 36,40	3,5,7,10,11,13,14,17,21,22,23,24,33,34	1,2,5,6,9,10
	Imaging Diagnosis	33,39,40	6,10,11,12,13	1,2,3
	Pharmacotherapy	4,7,8,18,32,33,36,37,39,40	3,5,6,7,8,10,11,12,13,14,17,21,22,24,34	1,2,3,5,6,9,10
Clinical Sciences	Veterinary Anesthetics	7,9,15,16,18,21,22,32,33,34,35,36,37,38,39,40	1,3,4,5,6,7,8,9, 10,11,12,13,14,15,17,18,19,21,26,27,28,29,30,31,32	1,2,3,5,7,8
	General Surgical Pathology & Surgery	7,8,9,15,16,17,18,19,22,23,32,33,34,35,36,37,38,39,40	1,3,4,5,6,7,8,9, 10,11,12,13,14,15,17,18,21,22,23,24,26,27,28,29,30,31,32,33,34	1,2,3,5,6,7,8,9, 10
	Internal Medicine	7,8,9,15,16,17,18,19,21,22,32,33,34,35,36,37,38,39,40	1,3,4,5,6,7,8,9, 10,11,12,13,14,15,17,18,21,22,23,24,26,27,28,29,30,31,32,33,34	1,2,3,5,6,7,8,9, 10
	Reproduction & Obstetrics	7,9,10,16,17,18,19,21,23,32,33,34,35,36	4,5,6,7,8,9, 10,11,12,13,14,15,17,21,23,32,33	1,2,3,4,5,8

		,37,38,39, 40		
	Farm Animal Clinics	7,8,9,16,17,19,22,23,32,35,40	3,4,5,7,10,11,13,14,15,17,18,21,22,23,24,26,27,28,29,30,31,33,34	1,2,5,6,8,9,10
	Special Surgical Pathology & Surgery	7,8,9,15,16,17,18,19,22,32,33,34,35,36,37,38,39,40	1,3,4,5,6,7,8,9, 10,11,12,13,14,15,17,18,21,22,23,24,26,27,28,29,30,31,32,33,34	1,2,3,5,6,7,8,9, 10
<b>Animal Health</b>	Epidemiology, Zoonosis & Public Health	8,19,20,24,25,32,33,37,38,39,40	3,6,7,8,9,10,11,12,13,14,17,20,23,22,24,34	1,3,4,5,6,9,10
	Infectious Diseases I	7,8,16,18,19,25,27,32,33,39,40	3,6,7,10,11,12,13,14,15,17,20,21,22,23,24,26,33, 34	1,2,3,4,5,6,9,10
	Infectious Diseases II	7,8,16,17,18,19,22,25,27,32,33,39,40	3,6,7,10,11,12,13,14,15,17,18,20,21,22,23,24,26,27,28,29,30,31,33, 34	1,2,3,4,5,6,9,10
	Parasitic Diseases	8,16,17,19,20,22,27,33,35,40	4,5,6,10,11,13,15,17,18,21,22,23,24,26,27,28,29,30,31,33,34	1,2,5,6,9,10
	Toxicology	7,8,13,14,15,16,18,19,20,22,24,25,27,29,32,33,34,35,36,37,38,39,40	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,36	1,2,3,4,5,6,7,9,10
	Preventive Medicine & Health Policy	8,14,20,25,29,32,33,39,40	3,6,7,10,11,12,13,14,17,20,22,24,25,26,27,28,34, 36	1,2,3,4,5,6,7,9,10
<b>Animal Husbandry</b>	Agronomy	3,10,11,12,13,14,15,17,18,23,25,26,29,31,32,33,34, 35,36,37,38,39,40	1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,20,21,25,26,27,32,33,35,36	1,2,3,4,5,7,8,9,10
	Animal Nutrition	3,10,11,12,14,17,18,25,26,29,31,32,33,34,35,36,37, 38,39,40	3,4,5,6,7,8,9,10,11,12,13,14,16,17,20,21,25,26,27,33,35,36	1,2,3,4,5,7,8,9,10
	Animal Husbandry, Farm Facilities & Welfare	3,18,14,25,26,29,31,32,33,34,36,37,38,39,40	1,3,5,6,7,10,11,12,13,14,16,17,20,25,26,27,28,36	1,2,3,4,7,8,9,10
	Agrarian Economy	13,25,31,32,33,34,35,36,37,39,40	1,2,3,4,5,6,7,8,9,10,11,12,13,14,17,20,22,36	1,2,3,4,8
	Animal breeding & Welfare	3,18	16,20	3,4
<b>Hygiene, Security &amp; Food Technology</b>	Food Technology	6,7,8,9,10,12,13,14,15,17,18,24,27,28,29,30,32,33,34,35,36,37,38,39,40	1,2,3,4,5,6,7,8,9,10,11,12,13,14,17,18,21,22,24,25,26,27,28,29,32,33,34,35	1,2,3,4,5,6,7,8,9,10
	Food Hygiene, Inspection & Control I	1,6,7,8,9,12,24,27,28,29,32,33,34,35,36,37,38,39,40	1,3,4,5,6,7,8,9, 10,11,12,13,14,17,18,22,24,29,33,34,35	1,2,3,5,6,8,9,10
	Food Hygiene, Inspection & Control II	6,7,8,10,12,14,15,17,18,27,28,29,30,32,33,34,35,36, 37,38,39,40	1,4,5,6,7,8,9,10,11,12,13,14,17,21,22,24,25,26,27,32,33,34,35	1,2,3,4,5,6,7,9, 10
	Food Security	1,8,10,12,13,14,18,28,29,30,32,33,34,35,37,40	1,2,3,4,5,6,7,8, 10,11,13,14,17,21,22,24,25,26,27,28,34,35	1,2,3,4,5,6,7,8,9, 10
<b>PRACTICUM &amp; EDW</b>	PRACTICUM (Prácticas Tuteladas)	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36	1,2,3,4,5,6,7,8,9, 10
	End of Degree Work	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36	1,2,3,4,5,6,7,8,9, 10
<b>Electives (6 ECTS out of 12)</b>	Veterinary History	33,34,35,37,39,40	1,4,5,6,7,8,10,11,12,13,22	1,2,3,8
	Taurology	1,2,3,6,7,8,9,11,13,15,17,24,25,27,28,29,30,31,32,33,34,36,38,39,40	1,2,3,5,6,7,8,9, 10,11,12,13,14,16,17,18,20,21,22,24,28,29,32,33,34,35,36	1,2,3,4,5,6,7,8,9, 10

	Wild Life Ecophatology	1,2,6,8,9,16,17,19,20,24 ,31,32,33, 36,38,40	3,5,6,7,8,9, 10,11,13,14,15,16,17,18,2 1,22,23,24,29,33,34	1,2,3,4,5,6,8,9, 10
	Veterinary Clinical Pathology	1,2,6,8,9,16,17,18,19,20 ,24,31,32, 33,34,35,36,37,38,39,40	3,5,6,7,8,9, 10,11,13,14,15,16,17,18,2 1,22,23,24,29,33,34	1,2,3,4,5,6,8,9, 10



## Appendix 3. Maps of the Establishment and the intra-mural and extra-mural facilities used in the core veterinary programme.

### Main Building

Main Building, Unit A, Ground Floor  
 Main Building, Unit A, 1st Floor  
 Main Building, Unit A, 2<sup>nd</sup> Floor  
 Main Building, Unit A, 3<sup>rd</sup> Floor  
 Main Building, Unit A, 4<sup>th</sup> Floor  
 Main Building, Unit C, Basement Level 1  
 Main Building, Unit C, Basement Level 2

### Veterinary Teaching Hospital

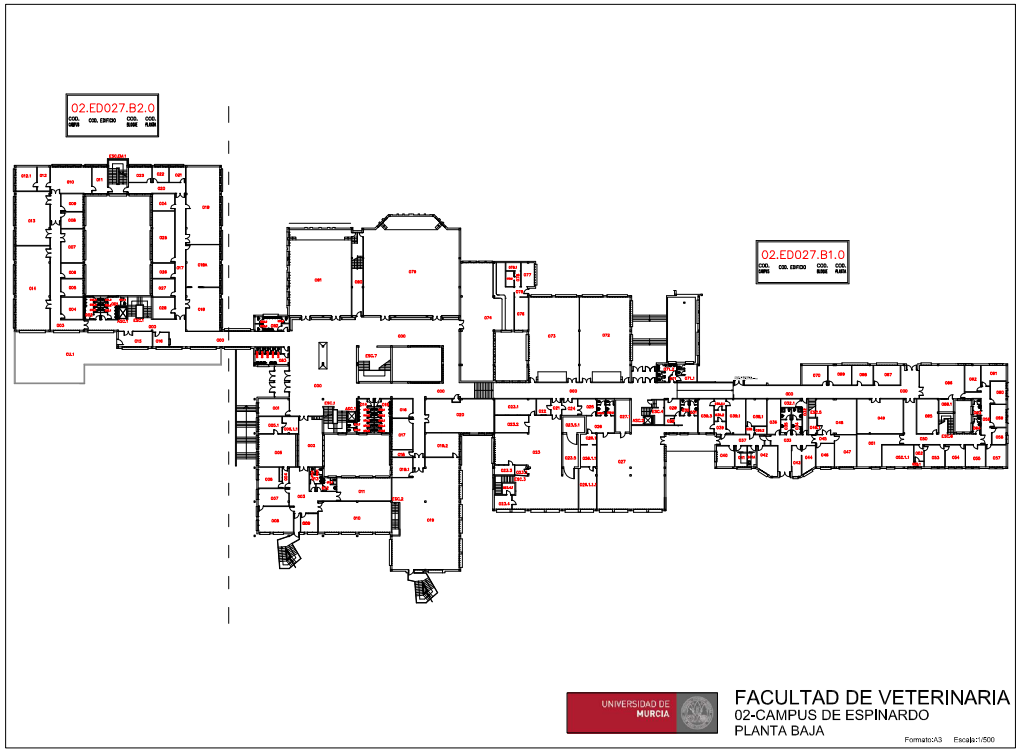
Main Building, Unit B, Basement Level 1, **VTH**  
 Main Building, Unit B, Ground Floor, **VTH**  
 Main Building, Unit B, 1<sup>st</sup>& 2<sup>nd</sup> Floor, **VTH**

Main Building, Unit B, 3<sup>rd</sup>& 4<sup>th</sup> Floor

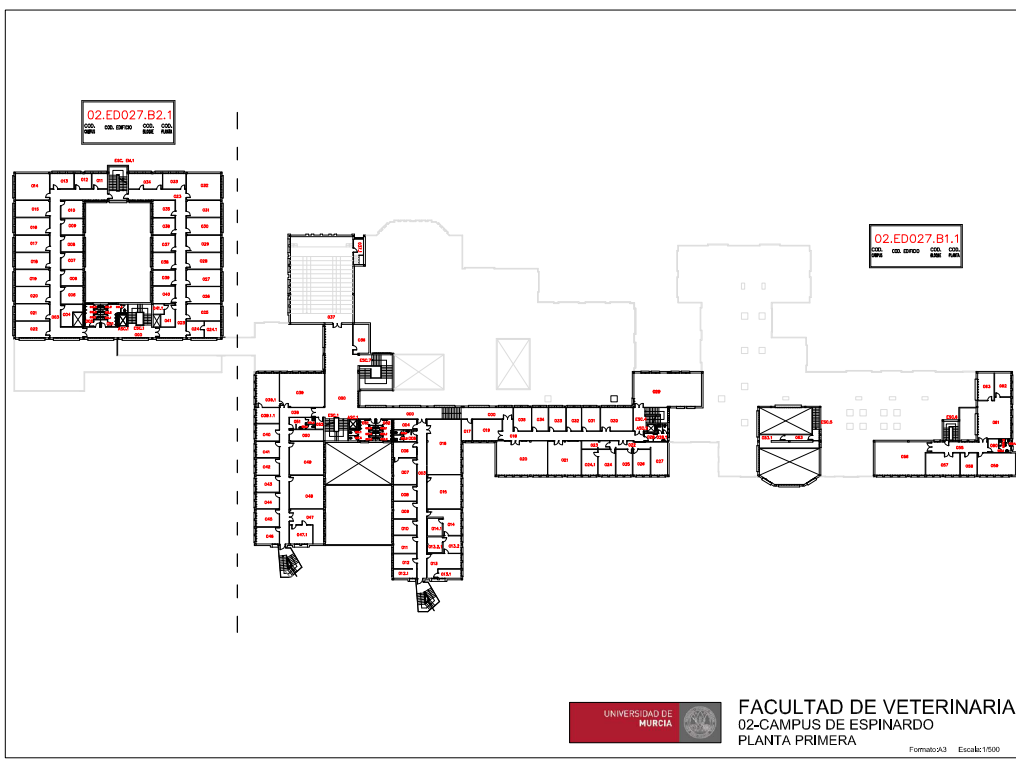
### Veterinary Teaching Farm

Location and general distribution.  
 Main building.  
 Quarenteen and Researhc Center  
 Equine & Cattle  
 Poultry & Rabbit  
 Sheep & Goats, including milking unit  
 Swine  
     Inseminationr-gestation   Boars   Farrowing room  
     Nursery-reposition Nursery-transposition  
     Sewer 1   Sewer 2  
 Apes, bees and reproduction laboratory (multispecies)

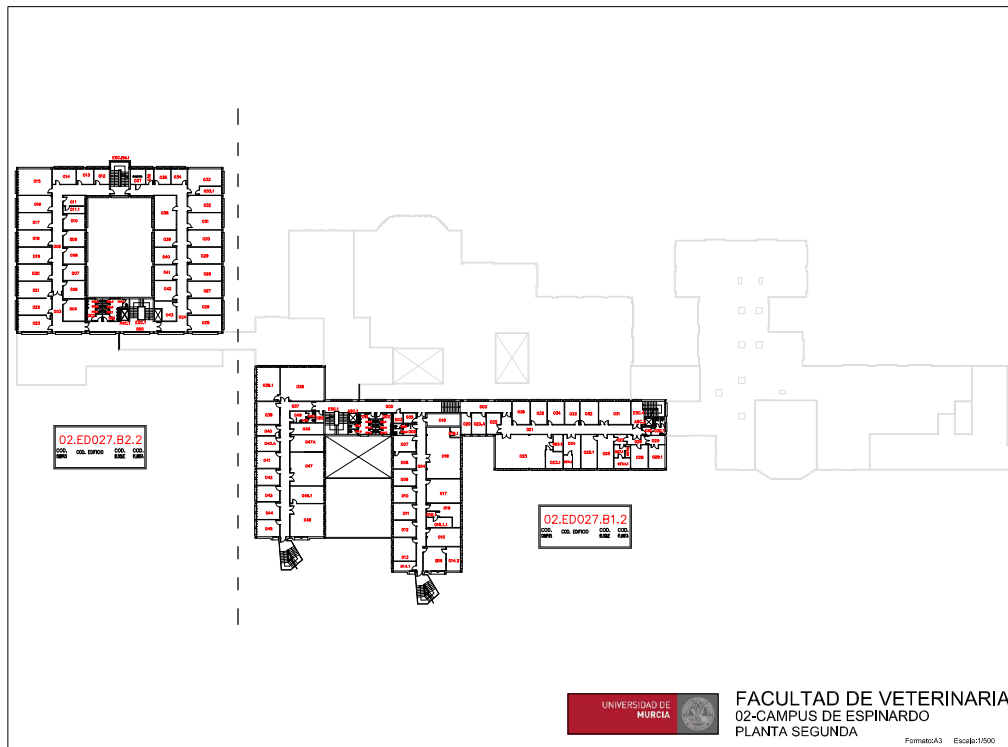
Main Building, Unit A, Ground Floor



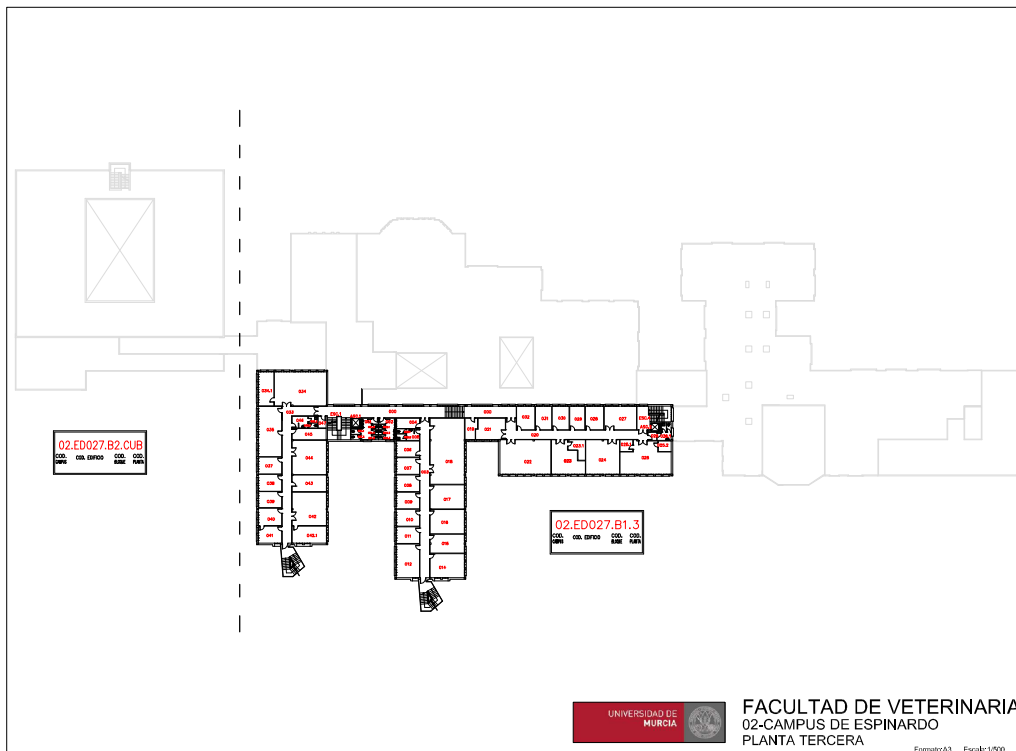
Main Building, Unit A, 1st Floor



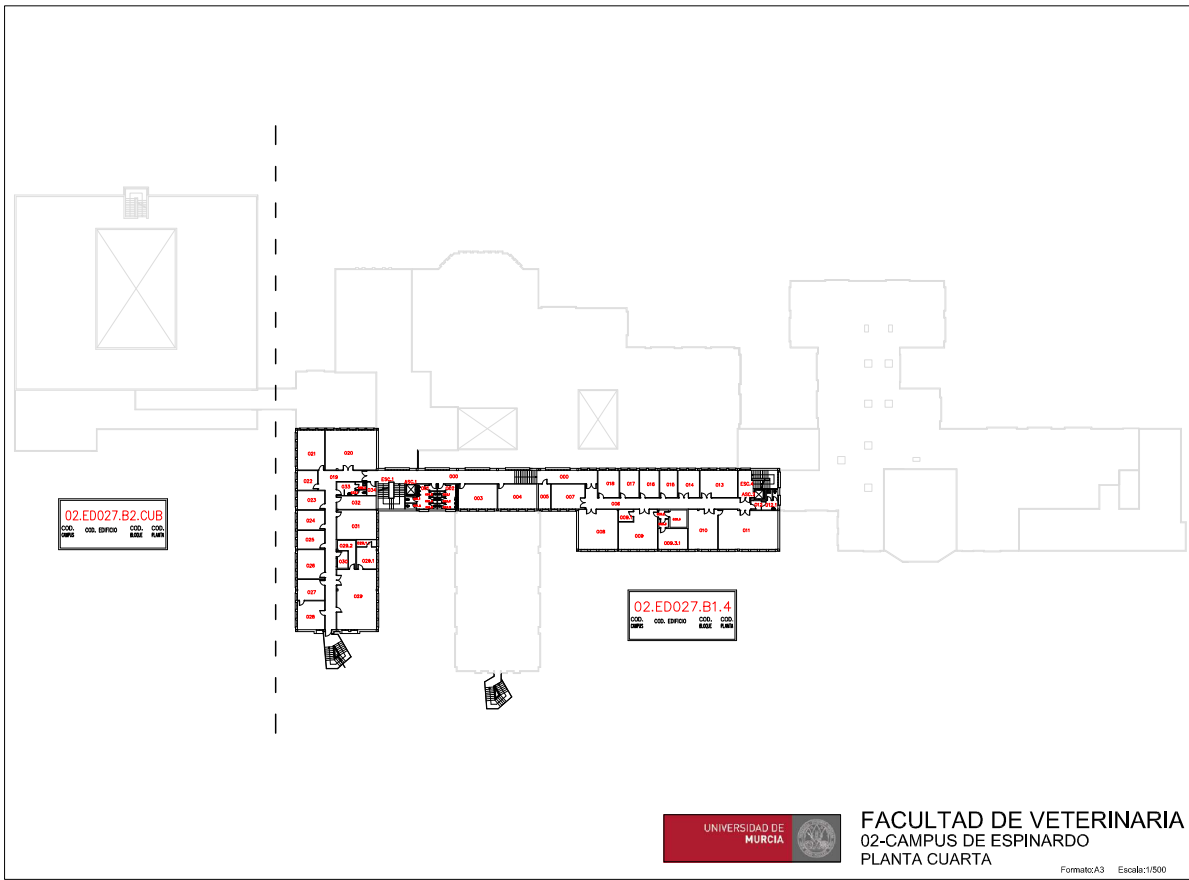
Main Building, Unit A, 2<sup>nd</sup> Floor



Main Building, Unit A, 3<sup>rd</sup> Floor

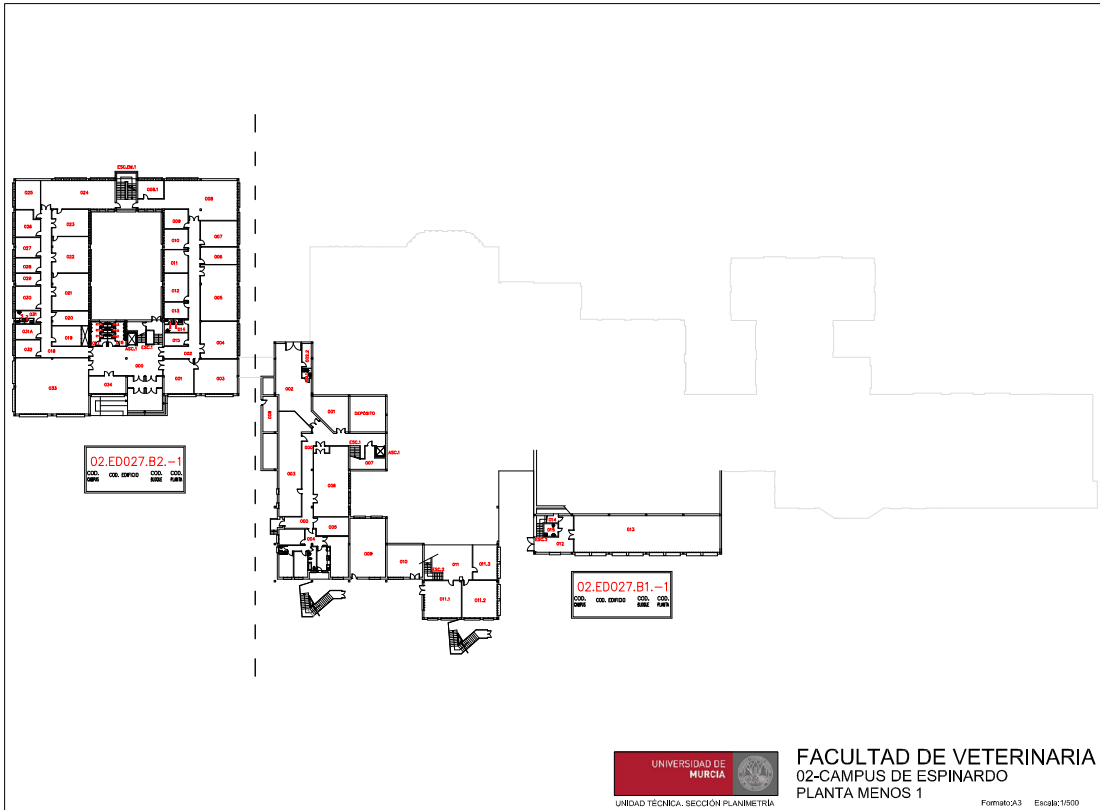


Main Building, Unit A, 4<sup>th</sup> Floor

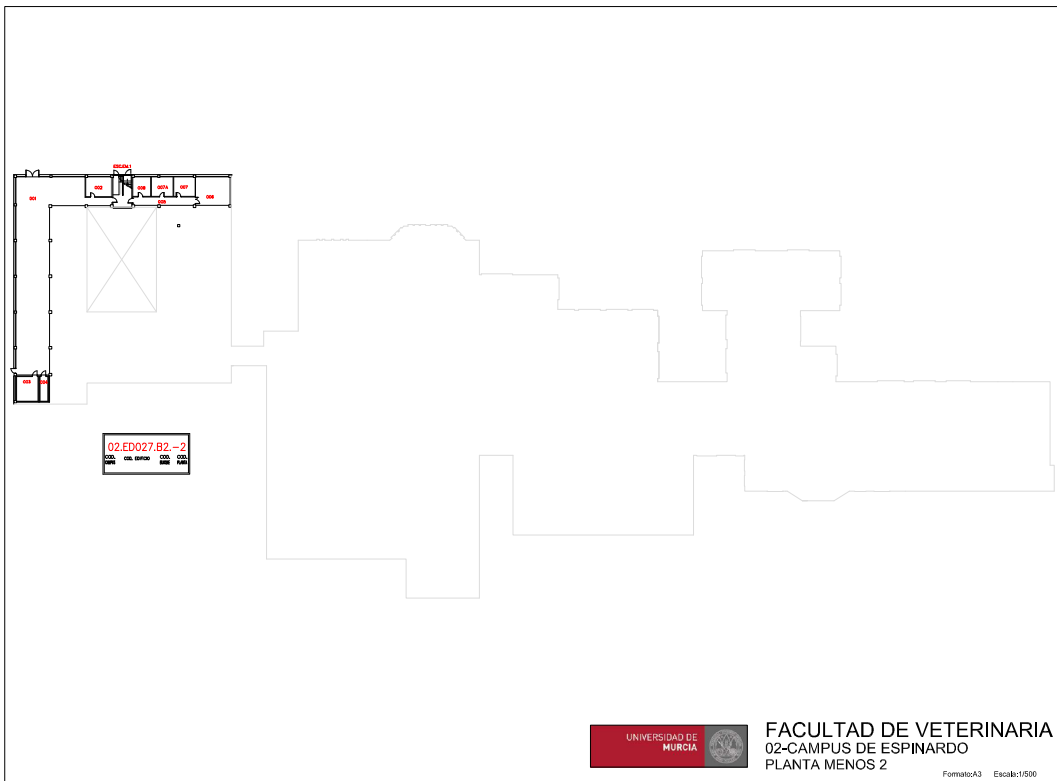




Main Building, Unit C, Basement Level 1

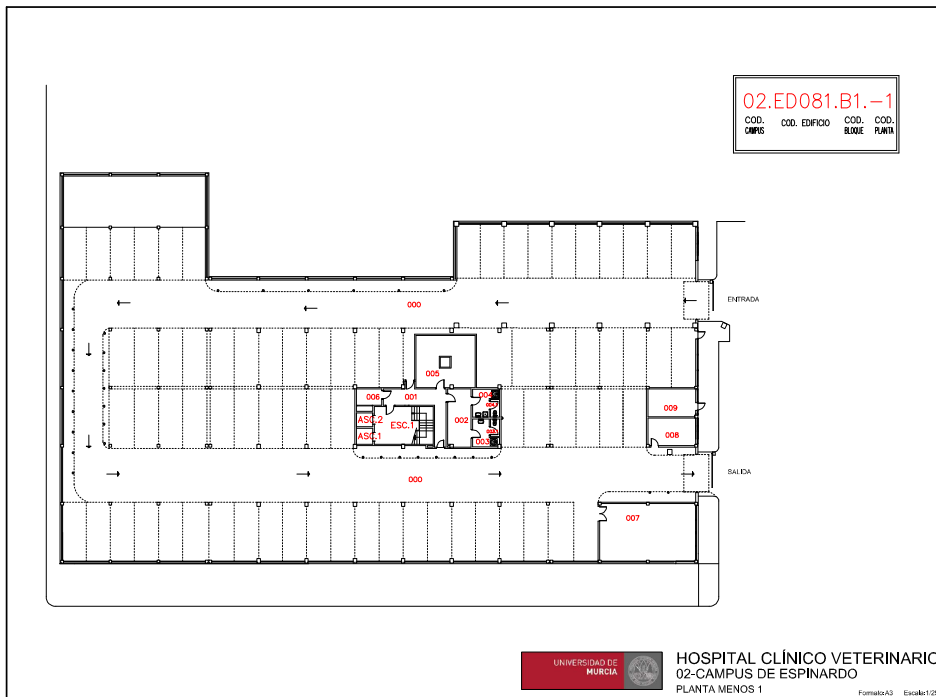


Main Building, Unit C, Basement Level 2



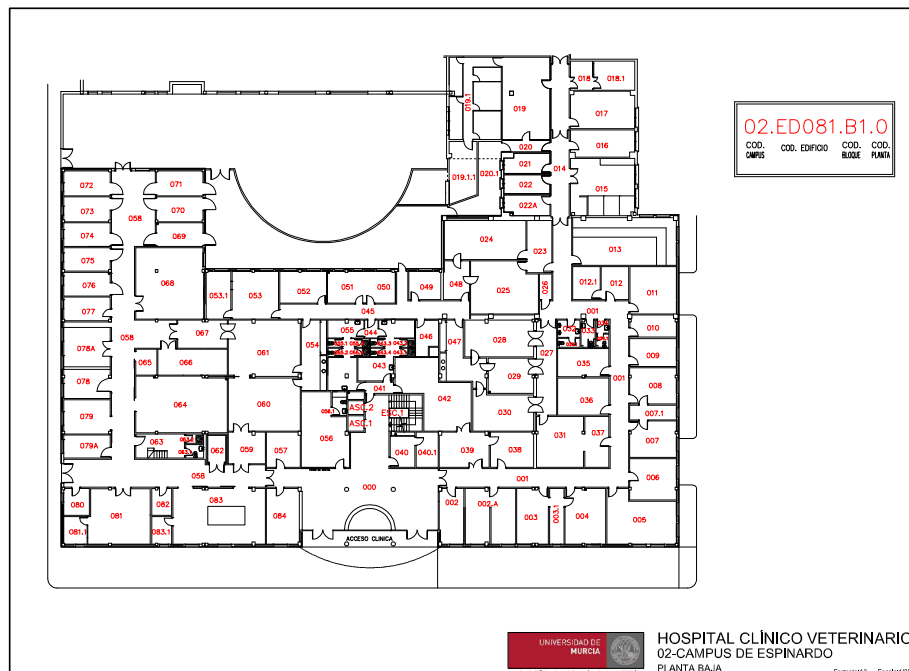
### Veterinary Teaching Hospital

#### Main Building, Unit B, Basement Level 1, VTH



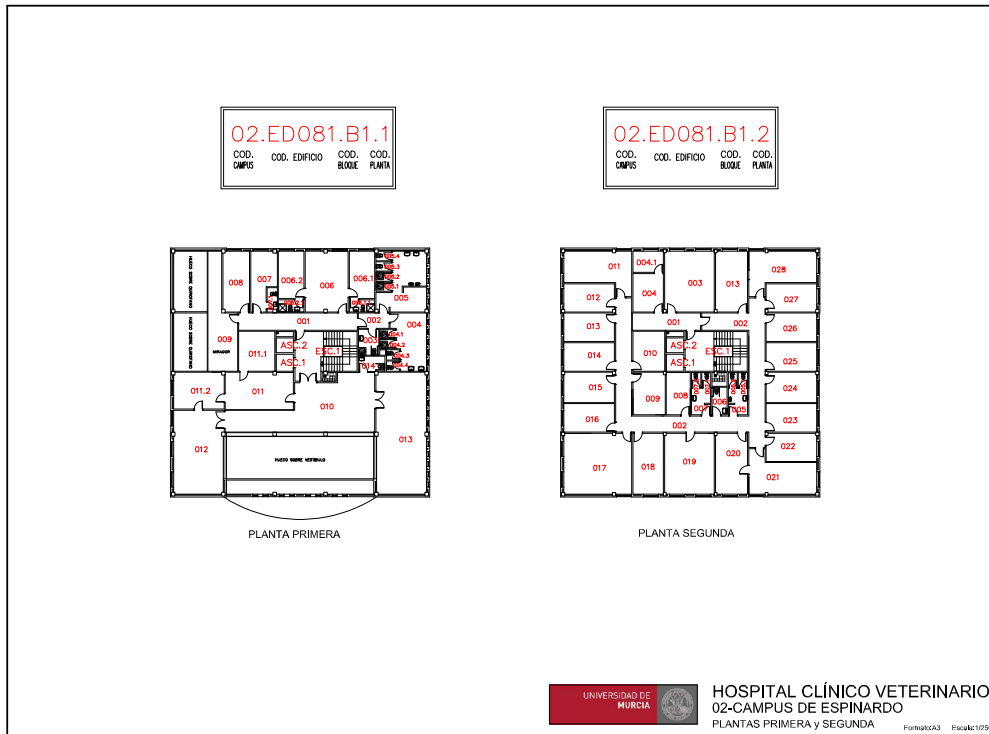
### Veterinary Teaching Hospital

#### Main Building, Unit B, Ground Floor, VTH

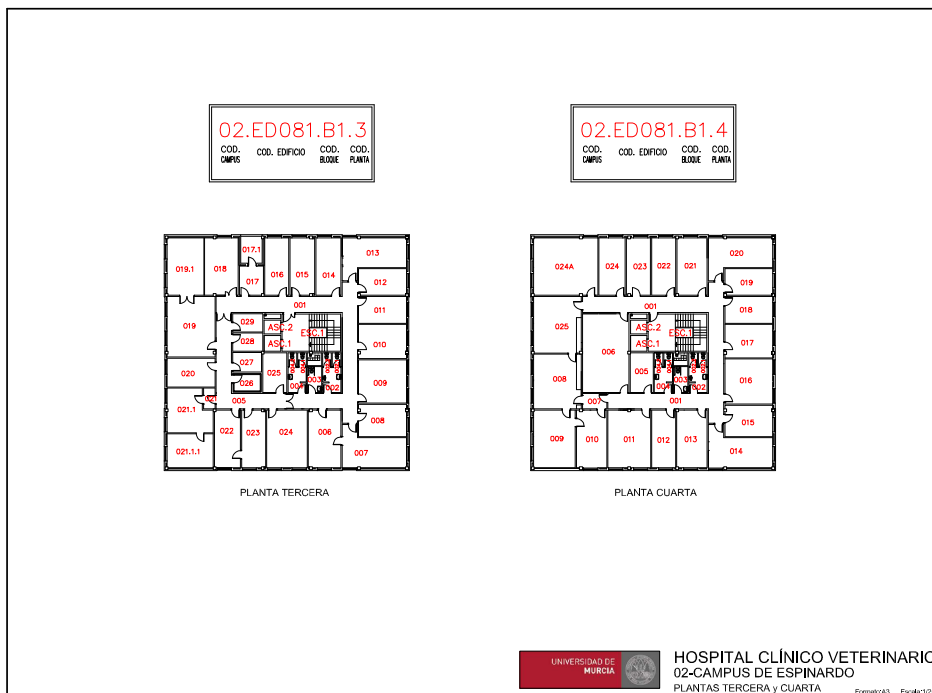


### Veterinary Teaching Hospital

#### Main Building, Unit B, 1<sup>st</sup> & 2<sup>nd</sup> Floor, VTH

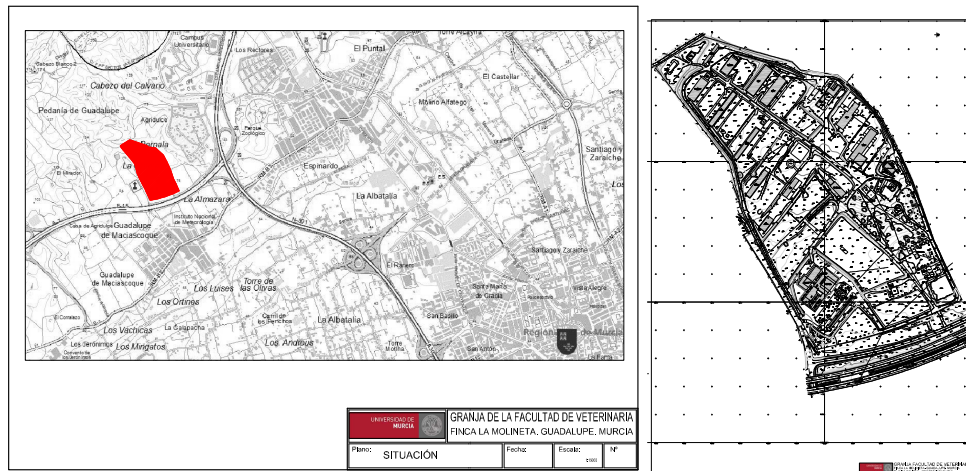


#### Main Building, Unit B, 3<sup>rd</sup> & 4<sup>th</sup> Floor



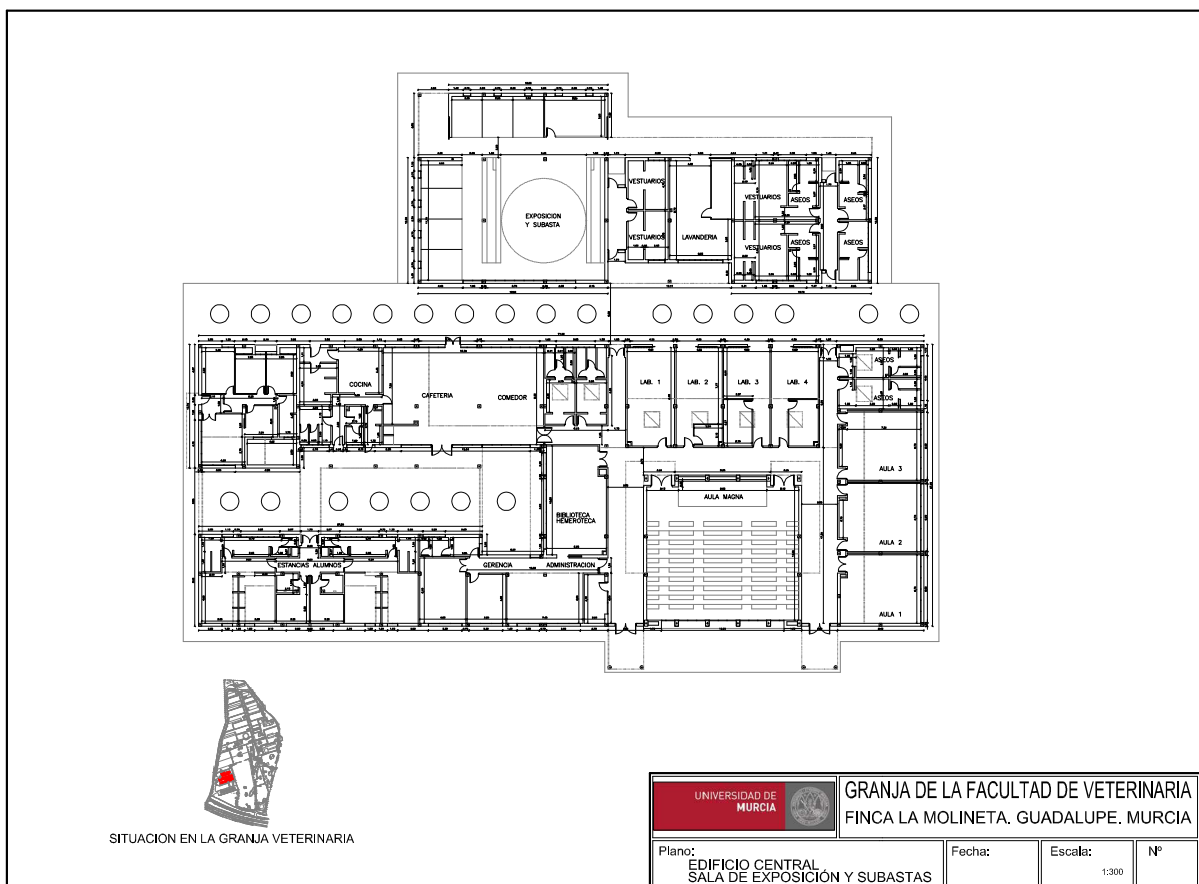
## Veterinary Teaching Farm

### Location and general distribution.



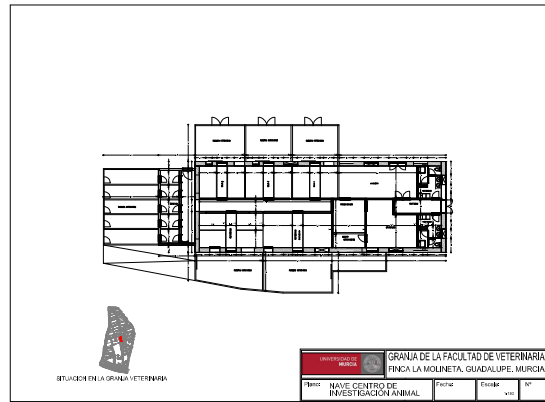
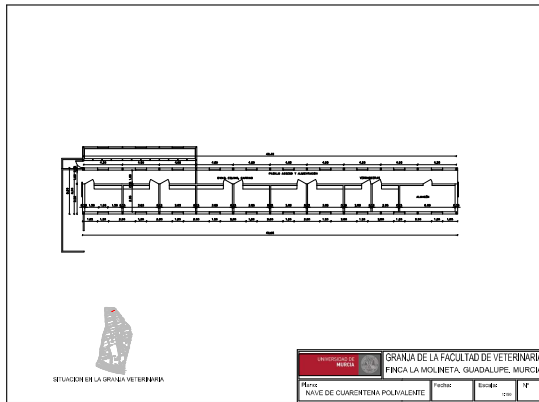
## Veterinary Teaching Farm

### Main building.



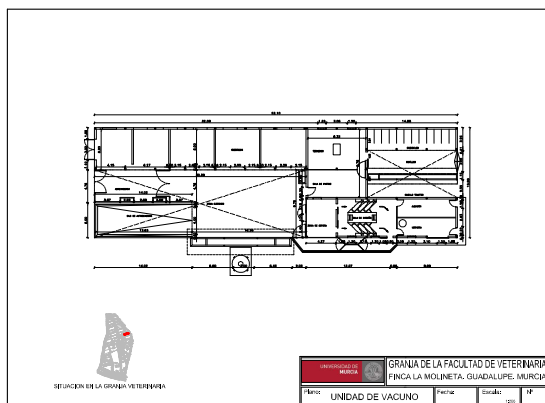
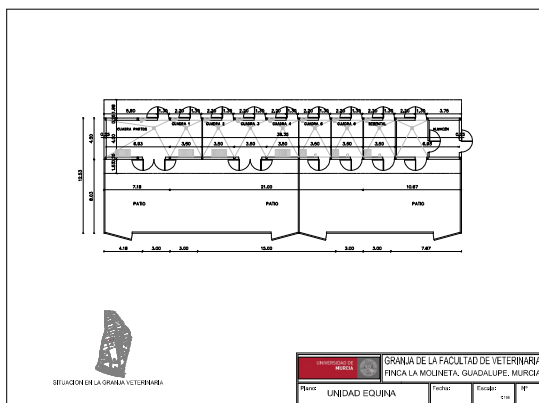
### Veterinary Teaching Farm

#### Quarenteen and Research Center



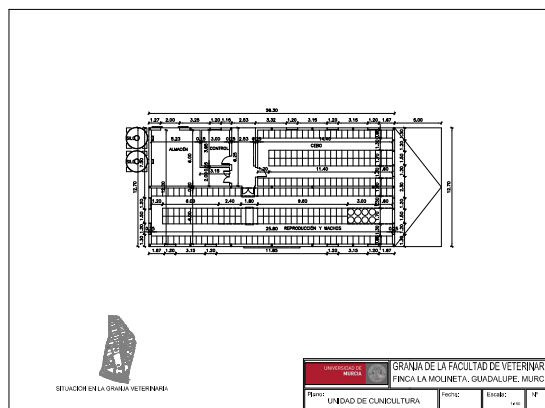
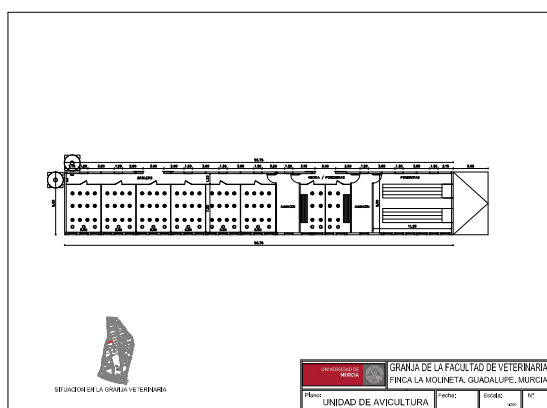
### Veterinary Teaching Farm

#### Equine & Cattle



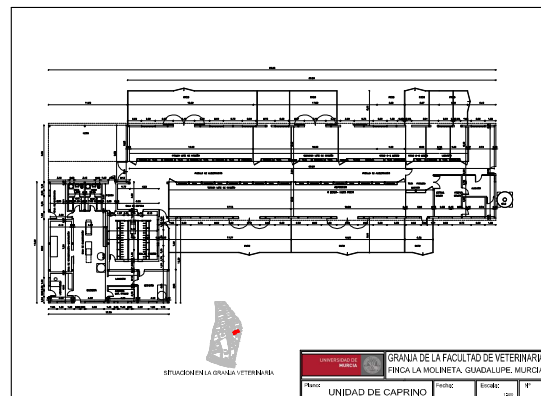
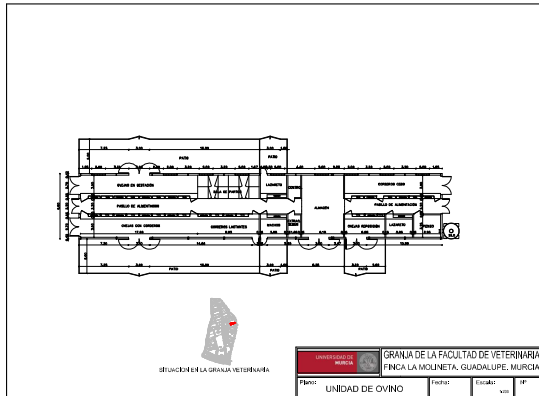
### Veterinary Teaching Farm

#### Poultry & Rabbit



## Veterinary Teaching Farm

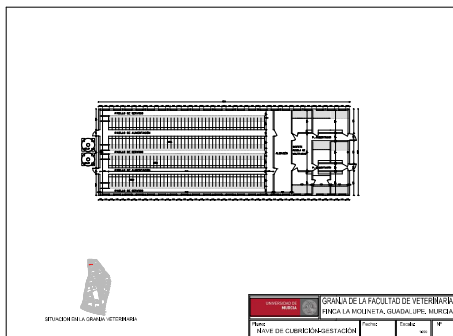
### Sheep & Goats, including milking unit



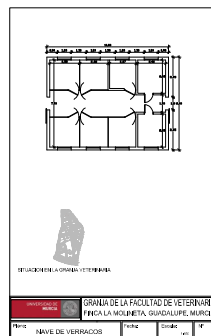
## Veterinary Teaching Farm

### Swine

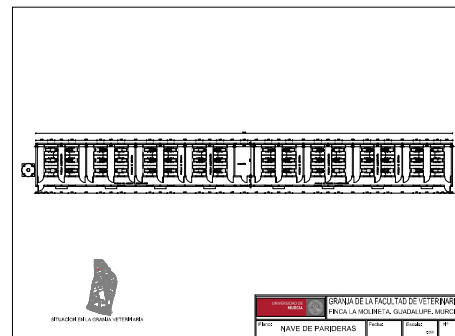
#### Insemination-gestation



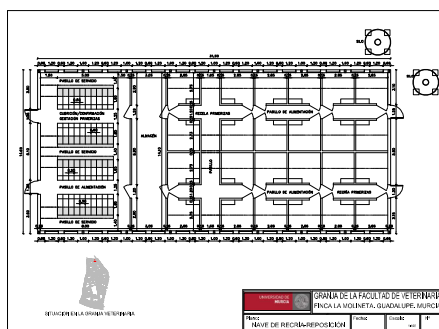
#### Boars



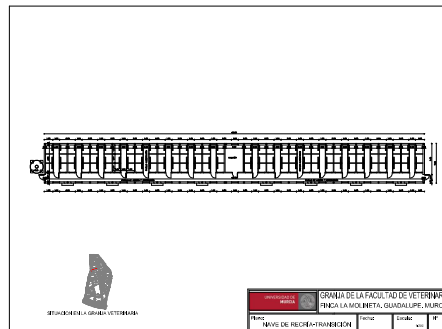
#### Farrowing rooms



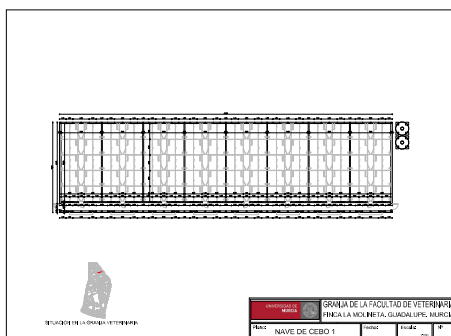
#### Nursery-reposition



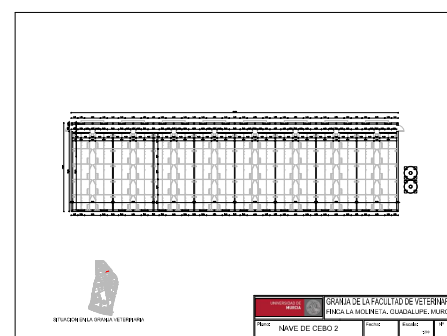
#### Nursery-transposition



#### Sewer 1

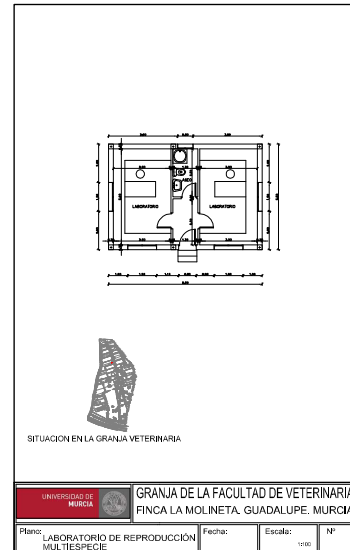
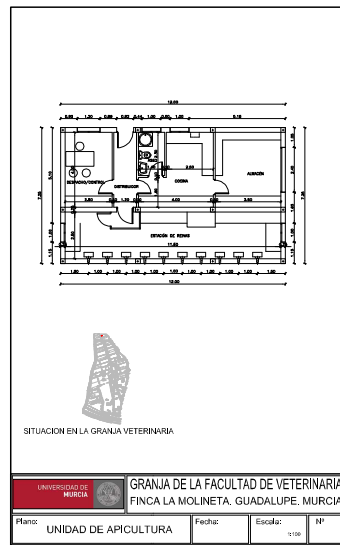
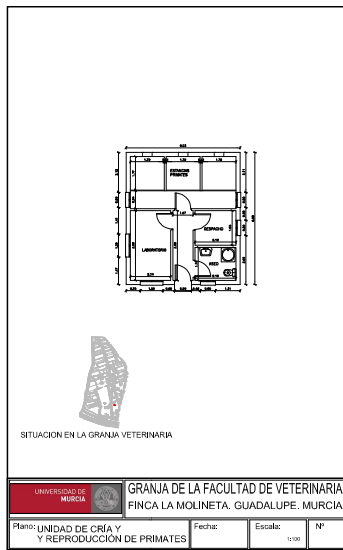


#### Sewer 2



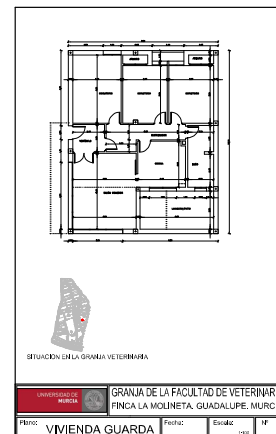
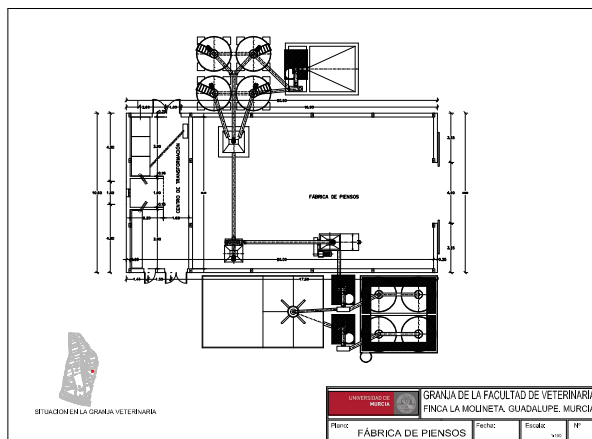
### Veterinary Teaching Farm

#### Apes, bees and reproduction laboratory (multispecies)



### Veterinary Teaching Farm

#### Feed factory & keeper house.







## Appendix 4. Written assessment procedures for QA.

Appendix 4. A. Operating regulations Quality Commission of FVETUM.

Appendix 4. B. Operating regulations Committee for Assessment and Improvement of the Veterinary Degree Curriculum of FVETUM.

Appendix 4. C. Survey of the student's satisfaction with the degree.

Appendix 4. D. Survey of the student's satisfaction with admission and acceptance processes.

Appendix 4. E. Survey of graduate satisfaction with the degree.

Appendix 4. F. Survey of teaching staff satisfaction with the degree.

Appendix 4. G. Survey of stakeholder's satisfaction with the degree.



#### 4.A. Operating regulations Quality Commission of FVETUM

##### OBJETIVE AND COMPOSITION

###### Aim and functions

###### Aim

1. The purpose of this Regulation is to regulate the organization and operating procedures of the Quality Commission of the Facultad de Veterinaria (**FVETUM**) of the Universidad de Murcia (**UM**).
2. The Quality Commission of the **FVETUM** is the maximum responsible committee for evaluating and improving the quality of teaching in the centre through implementation of an Internal Quality Assurance System (**SGIC**) that evaluates and control the results according predetermined procedures including in the Manual of SGIC.

###### Legal framework

The Quality Commission of the **FVETUM** is governed by the Organic Law 6/2001 of December 21st, Universities (BOE of December 24th of 2001), the Statutes of the **UM**, approved by its Council of Government the 24th of March of 2004 and the Statutes of **FVETUM** approved by the Government Council of **UM** the 14th of October of 2005 and modified the 13th of February of 2009. The Manual for SGIC was first edited the 20/12/07, revised and complemented again in 16/04/08, 05/03/12 and 17/12/15.

###### Functions

The Quality Commission of the **FVETUM** shall have the following functions, among others:

- 1) To carry out the follow-up of the Internal Quality Assurance System of the Degrees taught at the **FVETUM**.
- 2) To manage and coordinate all aspects related to this system and assure the compliance of general requirements of the SGIC Manual, the policy and objectives of Quality Assessment (QA) and requirements included in verification and certification national guides.
- 3) Analyze the information received from the Dean about Policy and General Objectives of QA of the **FVETUM** and spread it throughout the centre and monitor its implementation.
- 4) To carry out the follow-up and evaluation of the quality objectives of the Degrees taught at the **FVETUM** through monitoring the efficacy of processes and its performance indicators.
- 5) Study the information received from the Dean about projects of organization changes, and pronounce about them.
- 6) Control of each corrective or preventive action implemented due to the SGIC.
- 7) To study and make proposals for review and improvement of the Degrees, and follow up on them, after being approved by the Faculty Council.
- 8) To propose and modify the quality objectives of the Degrees taught at the **FVETUM**.
- 9) Decide the regularity and duration of satisfaction survey campaigns in the various groups of interest.
- 10) Gather information from the Quality Coordinator about the results obtained in satisfaction surveys and propose improvement proposals criteria that can be derived from those results.
- 11) To collect information and evidence on the development and application of the training programs of the Degrees taught at the **FVETUM** (objectives, development of teaching and learning and others).
- 12) To manage the Information System of the Degrees taught at the **FVETUM**.
- 13) To establish the quality policy of the Degrees taught at the **FVETUM**, in accordance with the quality policy of the **UM**.

In particular, the Quality Commission of the **FVETUM** will perform the following functions:

- 1) Annual elaboration of a report of the actions developed by the Commission.
- 2) Annual elaboration of a report on the progress of the teaching of the degrees given at the **FVETUM**, as well as a plan for improvements thereof, which shall be submitted for approval to the Faculty Council.
- 3) Preparation of reports to monitor the implementation of improvements proposed and approved by the Faculty Council.
- 4) Adoption of decisions and, as the case may be, decisions in relation to the claims and suggestions presented.
- 5) Adoption of the proposals to modify the Operating Regulations of the Quality Commission.
- 6) All other functions included in the System of Internal Quality Assurance of the qualifications given at the **FVETUM**, as well as those attributed to the Commission by whatever provisions are issued in the development of said System and that expressly to the Commission.

###### Members and Responsibilities

1. The members of the Quality Commission of the **FVETUM** are:

- Dean or Delegate
- Responsible of Quality Assurance of the **FVETUM**
- Academic Secretary of the **FVETUM** that will be the Secretary of the Commission
- Responsible of Coordination of the Degree in Veterinary
- Responsible of Coordination of the Degree in Food Science and Technology
- Responsible of postgraduate education of the **FVETUM**
- Responsible of Coordination of each Master or Postgraduate Programme
- A representative of each departmental section (Directors) that mainly teach at **FVETUM**

- A representative of teachers with permanent link
- A representative of support staff
- A representative of students of the Veterinary degree proposed by the official delegation of **FVETUM** students among those who attend the last two courses of the degree
- A representative of students of the Degree in Science and Technology of Food proposed by the official delegation of students of the **FVETUM** among those who attend the last two courses of the degree
- A representative of postgraduate students proposed by the official delegation of students of the **FVETUM** among those who study official postgraduate courses taught at the centre
- As a consultant, a member of Quality Assessment Unit of the **UM**
- Three representatives of the external stakeholder group

Likewise, the members of the Quality Commission shall be appointed by the Faculty Council. The duration of the term will be 2 years from the designation, except in the case of the students, whose terms will be of 1 year (considering that the students can be of the last year or of master).

The members of the Quality Commission of the **FVETUM** may not attribute the functions of representation recognized to it, unless expressly given by agreement validly adopted, for each specific case, by the Quality Commission.

## 2. The President

The President will be the Dean or Delegate assuming the functions of Presidency of the Quality Commission.

The president of the Quality Commission of the **FVETUM** will:

- a. Exercise the representation of the Quality Commission.
- b. Decide the meeting call of ordinary and extraordinary sessions and the agenda, taking into account, where appropriate, the requests of other members made sufficiently in advance.
- c. Preside over the sessions, to moderate debates and to suspend them for justified reasons.
- d. Resolve with his vote the ties, in order to adopt agreements.
- e. Ensure compliance with the legal framework.
- f. Certify the minutes and certifications of the agreements of the Quality Commission.
- g. Invite those who can report on specific topics to attend meetings of the Commission. In no case, shall the persons invited have the right to vote.
- h. Exercise as many other functions that are inherent to his status as President of the Quality Commission of the **FVETUM**.
- i. Exercise the rights that correspond to him as a member of the Quality Commission of the **FVETUM**.

The Quality Commission may appoint from among its members a Vice-President. In the event of a vacancy, absence, sickness or other legal cause, the President shall be replaced by the Vice-President, and in his absence, by the member of the Quality Commission of higher category, seniority and age, in this order, among its members.

## 3. The Secretary

The Quality Commission of the **FVETUM** will have a Secretary who will have the following competencies:

- a. To attend meetings with voice but without vote if he does not have the status of member of the Quality Commission, and with voice and vote if the Secretary is member of the Commission.
- b. To make the call of the sessions by order of its President, as well as the summons to the members of the Commission.
- c. To receive the acts of communication of the members with the Quality Commission and, therefore, the notifications, requests of data, rectifications or any other type of documents of which it should have knowledge.
- d. To prepare the dispatch of the issues, to draft and to authorize the minutes of the sessions.
- e. To issue certifications of approved consultations, judgments and agreements.
- f. To assist and to advise the Quality Commission of the **FVETUM** in the execution of its duties.
- g. If the Secretary is a member of the Quality Commission, he/she will exercise those rights that correspond as such.
- h. Other functions inherent to the status of Secretary.

The appointment and cessation of the Secretary shall be made by agreement of the Quality Commission. In cases of vacancy, absence, illness or other legal cause, the Secretary shall be replaced by the member of the Quality Commission appointed for this purpose, at the proposal of the President.

## 4. External Agents

External Agents will participate in the meetings of the Quality Commission, and especially in those related to decision-making, review and proposals for the improvement of the Degrees.

## 5. Rights of the members of the Quality Commission

The members of the Quality Commission shall have the right to:

- a) Receive, with a minimum of 48 hours in the event of ordinary sessions and 24 hours in the extraordinary sessions, the call of meetings and the agenda.
- b) Have at their disposal, in the same period, all the documentation containing the necessary information for the treatment of the matters that appear in the agenda.

- c) Participate in the debates of the sessions.
- d) Exercise their right to vote and to formulate their particular vote, as well as to express the meaning of their vote and the reasons that justify it. The exercise of the vote is personal and non-transferable.
- e) Formulate requests and questions.
- f) Obtain the necessary information to fulfil the assigned functions.
- g) Other functions inherent to their condition.

#### 6. Responsibilities of the members of the Quality Commission

The responsibilities of the members of the Quality Commission are:

- a) To attend the sessions of the Commission of Quality, as well as to contribute to its normal operation, participating in as many activities as are necessary.
- b) To submit to the Quality Commission the issues that affects it.
- c) To keep secrecy in cases where the nature of the information so requires.
- d) To refrain from intervening in the decisions of the Quality Commission when incurring in any of the cases provided for in the legislation of the legal regime of public administrations.

### **OPERATION OF THE QUALITY COMMISSION**

#### **Meetings**

- 1. The Quality Commission of the **FVETUM** will meet in ordinary and extraordinary sessions.
- 2. In ordinary sessions, it shall meet at least twice in each academic year, coinciding with the end of each semester approximately.
- 3. The Quality Commission shall meet in extraordinary sessions at the initiative of the President or at the request of a minimum of 20% of the total membership. These meetings shall be convened at least twenty-four hours in advance and shall contain the agenda of the meeting.
- 4. For reasons of urgency, the President may, with the agreement of the Quality Commission, be able to call a new meeting orally during a meeting, sending urgent notification to the non-attending members.

#### **Call and Agenda.**

- 1. The members of the Quality Commission must receive the call, with the agenda, at least 48 hours in advance, except in the case of extraordinary sessions that will be 24 hours.
- 2. The call, together with the agenda and the corresponding documentation, will be made by any means that allows make a record of receipt. Whenever available means permit, the call and the remaining documents will be sent by electronic means, being the originals deposited in the respective secretariat at the disposal of the members.
- 3. The agenda shall be set by the President, and shall necessarily include those points that have been requested by 20% of the members of the Quality Commission. No matter not included in the Agenda shall be subject to deliberation, voting or agreement, unless all the members of the Quality Commission are present and the urgency is declared by the favourable vote of the majority of the members.
- 4. The Agenda may specify which matters may be approved, if there is no opposition, without the need for deliberation.

#### **Electronic communications.**

- 1. Communications to the members of the Quality Commission will be practiced using the telematic means that the University makes available to the university community. The member of the Quality Commission who does not have the means or does not want to receive the documentation by telematic means will communicate it to the Secretary of the Commission. For that purpose, once their designation has been made, the members of the Quality Commission shall provide the Secretary with an e-mail address, to which communications shall be addressed. The members of the Quality Commission shall communicate to the Secretary any changes in the e-mail address that may occur.
- 2. The telematic communication to the members of the Quality Commission will only be valid if there is evidence of reception, dates and the full content of the communications, and the sender and the recipient are reliably identified.
- 3. The communication shall be understood to be performed for all legal purposes at the time of access to its contents in the electronic address provided. When there is a record of receipt of the notification in the electronic address, four calendar day's elapse for ordinary session calls and twenty-four hours for extraordinary session calls, without access to its content, it will be understood that the notification has been rejected, unless the technical or material impossibility of access is established.

#### **Development of sessions**

- 1. The Quality Commission of the FVM will be validly constituted for the purpose of holding sessions, deliberations and making agreements, at first call when at least half of its members, the President and the Secretary are present, and at second call, half an hour later, when at least one-third of its members, the President and the Secretary are present.
- 2. Participation in deliberations and voting is personal and non-delegable.
- 3. No one shall be interrupted while speaking, except by the President.

4. In order to proceed to the discussion, the President shall open a series of speeches. In view of the requests, the President may determine the time limitations of their use.
5. The closure of the discussion may be agreed upon by the President, upon prior notice, once those who have requested the floor or have renounced.
6. Once the discussion has been closed, the President will present the proposal or proposals that are the subject of a vote.
7. The members of the Quality Commission may be called to order when they interrupt or otherwise alter the order of the sessions or when they intend to continue speaking after they have been withdrawn. After having been warned three times at the same Session, the President may impose a ban on attending the rest of the session.

**Order issues.**

1. Order issues shall be considered, inter alia, the proposed postponement of the debate, the limitations on the interventions, the proposal for suspension or the proposal for a vote.
2. Points of order shall be decided, if necessary, by show of hands.

**Agreements.**

1. The agreements shall be adopted by simple majority, by assent or by public vote by show of hands, at the proposal of its President. In case of a tie the president has a casting vote. In any case, the proposed modification of the Operating Regulations of the Quality Commission will require its approval by an absolute majority.
2. Exceptionally, agreements may be adopted by secret ballot at the request of one of its members. The voting related to people will always be secret. Once a proposal has been made by the President, it will be considered approved by assent, if no member requests the vote or presents objection or opposition to it.
3. Upon the announcement of the beginning of a vote by the President, no member may interrupt it except to raise a point of order relating to the manner in which the voting is being conducted.
4. No matter that is not expressly included in the Agenda can be voted, unless all the members of the Commission are present, it is proposed at the beginning of the session, and the urgency of the matter is declared by the favourable vote of the Commission by majority.

**Minutes.**

1. Minutes of each meeting held by the Quality Commission of the FVM shall be recorded by the Secretary, who shall necessarily specify the attendees, the agenda of the meeting, the circumstances of the place and the time at which it was held, the Points of the deliberations, as well as the content of the agreements adopted.
2. The minutes shall contain the agreement or agreements adopted. Likewise, at the request of the respective members of the Quality Commission, a vote contrary to the agreement, their abstention and the reasons justifying it or the sense of their favourable vote shall be included. Any member has the right to request the full transcription of his intervention or proposal, provided that he/she furnishes, at the time, or within the term indicated by the President, the text that corresponds faithfully to his intervention, thus recording in the minutes or joining a copy to the same.
3. Members who disagree with the majority agreement may formulate a private vote in writing within forty-eight hours, which shall be incorporated into the approved text. Individual votes shall be limited to explaining the reasons for the discrepancy.
4. When the members of the Quality Commission vote against or abstain, they will be exempt from any responsibility that may arise from the agreements, if any.
5. The minutes shall be approved at the same or at the next session, although the Secretary may nevertheless issue certification on the specific agreements that have been adopted, without prejudice to the subsequent approval of the minutes. In the certifications of agreements issued prior to the approval of the minutes, this circumstance shall be expressly stated.
6. The Minutes shall be signed, on the last page and in the margin of each of the others, by the Secretary and shall be endorsed by the President. The sheets should be numbered sequentially, starting with number 1. The minutes will be filed in the secretariat of the Quality Commission under the responsibility of the Secretary.
7. The Secretary shall send a copy of the minutes of each session to all members of the Quality Commission as soon as possible, and in any case, together with the convening of the next session of the Commission at which it is to be approved.
8. The minutes of one session shall be approved at the beginning of the next session.
9. Any member of the Quality Commission who does not agree with the content of the Minutes may request in writing any modifications that may be considered. The Secretary may not estimate the correctness of the amendments, in which case may reasonably reject the amendments that arise.

**Agreement effects.**

1. The agreements and decisions adopted by the Quality Commission will have the appropriate effects according to their content and that established in current regulations.
2. The agreements and decisions adopted by the Quality Commission will be communicated to the interested parties to make the necessary changes and improvements. They will also be submitted to the Faculty Council for its knowledge and, if necessary, for ratification.

## ACTING QUALITY COMMISSION

### Acting Intervention

The members of the Quality Commission, once their term has expired, will remain acting until the election of the new members and will limit their management to the adoption of agreements on procedural matters, refraining from adopting, unless duly accredited cases of urgency or reasons of general interest for the Degrees, whose accreditation expressly justifies it.

## MODIFICATION OF THE OPERATING REGULATIONS OF THE QUALITY COMMISSION

### Modification of the Operating Regulations

The proposal to modify these operating regulations will require the favourable votes of the absolute majority of the members of the Quality Commission of the **FVETUM**. Once approved, the proposal will be submitted to the Faculty Council for approval.

## IDENTIFICATION OF GROUPS OF INTERESTS

Group of interests is defined as every person, group or institution that have interest in the Faculty, its teaching and training and the results obtained. The following table shows the groups of interest and aspects to study in different processes of the SGIC.

Group of interest	Important aspects to consider by the SGIC
<b>Students</b>	Student selection and admission, academic training, organization and development of teaching, learning support systems, results of education, labour entry and satisfaction.
<b>Teaching and Support Staff</b>	Student selection and admission, academic training profile, organization and development of teaching, learning support systems, teaching and support staff, resources, progress and academic performance, results of education, information systems, labour entry and satisfaction
<b>FVETUM Board</b>	Educational offer, teaching and support staff, resources, results analysis and information provided.
<b>Employers</b>	Educational offer, academic training profile, quality of training, labour entry and satisfaction.
<b>Graduates</b>	Educational offer, academic training profile, quality of training, labour entry and satisfaction.
<b>Public Administrations</b>	Educational offer, academic training profile, teaching and support staff, progress and academic performance, quality of training, graduate labour entry and spending.
<b>General Society</b>	Educational offer and demand, progress and academic results and labour incorporation.





**4.B. Regulation procedures of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum of FVETUM****OBJETIVE AND COMPOSITION****Aim and functions****Aim**

1. The purpose of this Regulation is to regulate the organization and operation of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, Facultad de Veterinaria (**FVETUM**) of Universidad de Murcia (**UM**). The Committee for Assessment and Improvement of the Veterinary Degree Curriculum is the maximum responsible for the quality of teaching of the Degree in Veterinary in the **FVETUM**.

**Legal framework**

The Committee for Assessment and Improvement of the Veterinary Degree Curriculum is governed by the Organic Law 6/2001 of December 21st, Universities (BOE of December 24th of 2001), the Statutes of the **UM**, approved by its Council of Government the 24th of March of 2004 and the Statutes of **FVETUM** approved by the Government Council of **UM** the 14th of October of 2005 and modified the 13th of February of 2009 by the current Operating Regulations, as well as by any provisions that may be issued in the development of said rules.

**Functions**

1. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall have the following functions, among others:

- 1) To carry out the follow-up of the Internal Quality Assurance System of the Degree in Veterinary.
- 2) To manage and coordinate all aspects related to this system.
- 3) To carry out the follow-up and evaluation of the quality objectives of the Degree in Veterinary.
- 4) To make proposals for review and improvement of the Degree in Veterinary, and follow up on them.
- 5) To propose and modify the quality objectives of the Degree in Veterinary.
- 6) To collect information and evidence on the development and application of the training programs of the Degree in Veterinary (objectives, development of teaching and learning and others).
- 7) To manage the Information System of the Degree in Veterinary.
- 8) To establish the quality policy of the Degree in Veterinary, in accordance with the quality policy of the **FVETUM** and the **UM**.

In particular, the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will perform the following functions:

- 1) Annual elaboration of a report of the actions developed by the Committee.
- 2) Annual elaboration of a report on the progress of the teaching of the Degree in Veterinary, as well as a plan for improvements thereof, which shall be submitted for approval to the Faculty Council.
- 3) Preparation of reports to monitor the implementation of improvements proposed and approved by the Faculty Council.
- 4) Adoption of decisions and, as the case may be, decisions in relation to the claims and suggestions presented.
- 5) Adoption of the proposals to modify the Operating Regulations of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.
- 6) All other functions included in the System of Internal Quality Assurance Manual of the qualifications given at the **FVETUM**, as well as those attributed to the Committee by whatever provisions are issued in the development of said System and that expressly to the Committee.

**Members. Rights. Responsibilities****Members**

1. The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum are:

- Responsible of Coordination of the Degree in Veterinary (Vice-dean)
- Teachers, coordinators of subjects of the Degree, designated each one by their respective Departments and Departmental Section.
- Two representatives of students of the Degree in Veterinary proposed by the official delegation of FVM students among those who attend the last two courses of the degree.
- The Head of Student Secretary of the **FVETUM**.
- A representative of the Official College of Veterinary Surgeons of Madrid, whose presidency will propose a list of which will be designated by the Faculty Council.
- A representative of support staff
- And three external members related with the degree

Likewise, the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall be appointed by the Faculty Council. The duration of the term will be 2 years from the designation, except in the case of the students, whose terms will be of 1 year.

The members of the Committee may not attribute the functions of representation recognized to it, unless expressly given by agreement validly adopted, for each specific case, by the Committee.

## 2. The President

The President of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be the responsible of Coordination of the Degree in Veterinary.

3. The president of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will:

- a. Exercise the representation of the Committee.
- b. Decide the meeting call of ordinary and extraordinary sessions and the agenda, taking into account, where appropriate, the requests of other members made sufficiently in advance.
- c. Preside over the sessions, to moderate the debates and to suspend them for justified reasons.
- d. Resolve with his vote the ties, in order to adopt agreements.
- e. Ensure compliance with the legal framework.
- f. Certify the minutes and certifications of the agreements of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.
- g. Invite those who can report on specific topics to attend meetings of the Committee. In no case shall the persons invited have the right to vote.
- h. Exercise as many other functions are inherent to his status as President of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.
- i. Exercise the rights that correspond to him as a member of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.

The Committee for Assessment and Improvement of the Veterinary Degree Curriculum may appoint from among its members a Vice-President. In the event of a vacancy, absence, sickness or other legal cause, the President shall be replaced by the Vice-President, and in his absence, by the member of the Committee of higher category, seniority and age, in this order, among its members.

## 3. External Agents

The External Agents will participate in the meetings of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, and especially in those related to decision-making, review and proposals for the improvement of the Degrees.

### **Rights of the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum**

The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall have the right to:

- a) Receive, with a minimum of 48 hours in the event of ordinary sessions and 24 hours in the extraordinary sessions, the call of meetings and the agenda of the same.
- b) Have at their disposal, in the same period, all the documentation containing the necessary information for the treatment of the matters that appear in the agenda.
- c) Participate in the debates of the sessions.
- d) Exercise their right to vote and to formulate their particular vote, as well as to express the meaning of their vote and the reasons that justify it. The exercise of the vote is personal and non-transferable.
- e) Formulate requests and questions.
- f) Obtain the necessary information to fulfil the assigned functions.
- g) Other functions inherent to their condition.

### **Responsibilities of the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum**

The responsibilities of the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum are:

- a) To attend the sessions of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, as well as to contribute to its normal operation, participating in as many activities as are precise.
- b) To submit to the Committee for Assessment and Improvement of the Veterinary Degree Curriculum the issues that affects it.
- c) To keep secrecy in cases where the nature of the information so requires.
- d) To refrain from intervening in the decisions of the Committee when incurring in any of the cases provided for in the legislation of the legal regime of public administrations.

## **OPERATION OF THE COMMITTEE FOR ASSESSMENT AND IMPROVEMENT OF THE VETERINARY DEGREE CURRICULUM**

### **Meetings**

1. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum will meet in ordinary and extraordinary sessions.

2. In ordinary sessions, it shall meet at least three times in each academic year, coinciding with the beginning, middle and end of course, approximately.
3. The Committee shall meet in extraordinary sessions at the initiative of the President or at the request of a minimum of 20% of the total membership. These meetings shall be convened at least twenty-four hours in advance and shall contain the agenda of the meeting.
4. For reasons of urgency, the President may, with the agreement of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, be able to call a new meeting orally during a meeting, sending urgent notification to the non-attending members.

**Call and Agenda.**

1. The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum must receive the call, with the agenda, at least 48 hours in advance, except in the case of extraordinary sessions that will be 24 hours.
2. The call, together with the agenda and the corresponding documentation, will be made by any means that allows make a record of receipt. Whenever available means permit, the call and the remaining documents will be sent by electronic means, being the originals deposited in the respective secretariat at the disposal of the members.
3. The agenda shall be set by the President, and shall necessarily include those points that have been requested by 20% of the members of the Committee. No matter not included in the Agenda shall be subject to deliberation, voting or agreement, unless all the members of the Committee are present and the urgency is declared by the favourable vote of the majority of the members.
4. The Agenda may specify which matters may be approved, if there is no opposition, without the need for deliberation.

**Electronic communications.**

1. Communications to the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be practiced using the telematic means that the University makes available to the university community. The member of the Committee who does not have the means or does not want to receive the documentation by telematic means will communicate it to the Secretary of the Committee. For that purpose, once their designation has been made, the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall provide the Secretary with an e-mail address, to which communications shall be addressed. The members of the Committee shall communicate to the Secretary any changes in the e-mail address that may occur.
2. The telematic communication to the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will only be valid if there is evidence of reception, dates and the full content of the communications, and the sender and the recipient are reliably identified.
3. The communication shall be understood to be performed for all legal purposes at the time of access to its contents in the electronic address provided. When there is a record of receipt of the notification in the electronic address, four calendar day's elapse, for the convocations of ordinary sessions and twenty-four hours, for the convocations of extraordinary sessions, without access to its content, it will be understood that the notification has been rejected, unless the technical or material impossibility of access is established.

**Development of sessions**

1. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be validly constituted for the purpose of holding sessions, deliberations and making agreements, at first call when at least half of its members and the President are present, and at second call, half an hour later, when at least one-third of its members and the President are present.
  2. Participation in deliberations and voting is personal and non-delegable.
  3. No one shall be interrupted while speaking, except by the President.
  4. In order to proceed to the discussion, the President shall open a series of speeches. In view of the requests, the President may determine the time limitations of their use.
  5. The closure of the discussion may be agreed upon by the President, upon prior notice, once those who have requested the floor or have renounced.
  6. Once the discussion has been closed, the President will present the proposal or proposals that are the subject of a vote.
  7. The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum may be called to order when they interrupt or otherwise alter the order of the sessions or when they intend to continue speaking after they have been withdrawn.
- After having been warned three times at the same Session, the President may impose a ban on attending the rest of the session.

**Order issues.**

1. Order issues shall be considered, inter alia, the proposed postponement of the debate, the limitations on the interventions, the proposal for suspension or the proposal for a vote.
2. Points of order shall be decided, if necessary, by a show of hands.

**Agreements.**

1. The agreements shall be adopted by simple majority, by assent or by public vote by show of hands, at the proposal of its President. In case of a tie the president has a casting vote. In any case, the proposed modification of the Operating Regulations of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will require its approval by an absolute majority.

2. Exceptionally, agreements may be adopted by secret ballot at the request of one of its members. The voting related to people will always be secret. Once a proposal has been made by the President, it will be considered approved by assent, if no member requests the vote or presents objection or opposition to it.
3. Upon the announcement of the beginning of a vote by the President, no member may interrupt it except to raise a point of order relating to the manner in which the voting is being conducted.
4. No matter that is not expressly included in the Agenda can be voted, unless all the members of the Committee are present, it is proposed at the beginning of the session, and the urgency of the matter is declared by the favourable vote of the Committee by majority.

**Minutes.**

1. Minutes of each meeting held by the Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall be recorded by the President, who shall necessarily specify the attendees, the agenda of the meeting, the circumstances of the place and the time at which it was held, the Points of the deliberations, as well as the content of the agreements adopted.
2. The minutes shall contain the agreement or agreements adopted. Likewise, at the request of the respective members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, a vote contrary to the agreement, their abstention and the reasons justifying it or the sense of their favourable vote shall be included. Any member has the right to request the full transcription of his intervention or proposal, provided that he or she furnishes, at the time, or within the term indicated by the President, the text that corresponds faithfully to his intervention, thus recording in the minutes or joining a copy to the same.
3. Members who disagree with the majority agreement may formulate a private vote in writing within forty-eight hours, which shall be incorporated into the approved text. Individual votes shall be limited to explaining the reasons for the discrepancy.
4. When the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum vote against or abstain, they will be exempt from any responsibility that may arise from the agreements, if any.
5. The minutes shall be approved at the same or at the next session, although the President may nevertheless issue certification on the specific agreements that have been adopted, without prejudice to the subsequent approval of the minutes. In the certifications of agreements issued prior to the approval of the minutes, this circumstance shall be expressly stated.
6. The Minutes shall be signed, on the last page and in the margin of each of the others, by the President and shall be endorsed by the President. The sheets should be numbered sequentially, starting with number 1. The minutes will be filed in the secretariat of the Committee under the responsibility of the Secretary.
7. The President shall send a copy of the minutes of each session to all members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum as soon as possible, and in any case, together with the convening of the next session of the Committee at which it is to be approved.
8. The minutes of one session shall be approved at the beginning of the next session.
9. Any member of the Committee who does not agree with the content of the Minutes may request in writing any modifications that may be considered. The President may not estimate the correctness of the amendments, in which case may reasonably reject the amendments that arise.

**Agreement effects.**

1. The agreements and decisions adopted by the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will have the appropriate effects according to their content and that established in current regulations.
2. The agreements and decisions adopted by the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be communicated to the interested parties to make the necessary changes and improvements. They will also be submitted to the Faculty Council for its knowledge and, if necessary, for ratification.

**ACTING COMMITTEE FOR ASSESSMENT AND IMPROVEMENT OF THE VETERINARY DEGREE CURRICULUM****Acting Intervention**

The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, once their term has expired, will remain acting until the election of the new members and will limit their management to the adoption of agreements on procedural matters, refraining from adopting, unless duly accredited cases of urgency or reasons of general interest for the Degrees, whose accreditation expressly justifies it.

**MODIFICATION OF THE OPERATING REGULATIONS OF THE COMMITTEE FOR ASSESSMENT AND IMPROVEMENT OF THE VETERINARY DEGREE CURRICULUM****Modification of the Operating Regulations**

The proposal to modify these operating regulations will require the favourable votes of the absolute majority of the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum. Once approved, the proposal will be submitted to the Faculty Council for approval.

**4.C. Survey of the student's satisfaction with admission and acceptance processes.**

This survey aims to be a first approximation to the general opinion of the students regarding the Degree that will be completed with other actions that allow a global analysis.


**SATISFACTION OF STUDENTS WITH ADMISSION  
AND ACCEPTANCE PROCESSES**
**INTERNAL QUALITY ASSURANCE SYSTEM**
**FACULTY:** \_\_\_\_\_ **YEAR** \_\_\_\_\_

**DEGREE:** \_\_\_\_\_

*The aim of this questionnaire is to compile information on general satisfaction with admission and acceptance processes. Information will be drawn from the data obtained and will be used by the Quality Assurance Committee to analyse and improve the degree programme. Given the relevance of the information requested, it is of utmost importance that you answer in a sincere and responsible fashion.*

**Please assess** the following aspects according to the following **satisfaction level** scale:

(1) Very poor / I strongly disagree

(5) Very well / I strongly agree

 Gender :  Male  Female

<b>SELECTION, ADMISSION AND ENROLMENT</b>	1	2	3	4	5
1. The previous information (preregistration, admission, enrolment process...) on the Degree offered by the University of Murcia.					
2. Satisfaction with selection and admission processes at the University of Murcia.					
3. Service and assistance at the Faculty Office.					
4. Information provided by the Faculty Office.					
5. In general, I am satisfied with the enrolment process.					
<b>STUDENT GUIDANCE</b>	1	2	3	4	5
6. The applicants' profile (skills and competences to adequately face new studies) is clear and public.					
7. Information provided on the syllabus: subject programmes, competences, methodology, assessment criteria, teaching staff in charge, etc.					
8. Usefulness of activities for academic guidance (Welcoming Day, Induction Course, information on the different University and Faculty services, etc.)					
9. The activities for academic guidance are interesting and favour integration within the University.					
10. In general, I am satisfied with guidance activities for students.					

**Please indicate three positive and three negative aspects relating to these topics. Your suggestions for the improvement of these topics are welcomed (you can use the back of the form to this end)**

POSITIVE ASPECTS	NEGATIVE ASPECTS
1	1
2	2
3	3

PA03 Annex 3 SGIC Satisfaction survey on admission and acceptance V03



**4.D. Survey of the student's satisfaction with the degree.**

This survey aims to be a first approximation to the general opinion of the students regarding the Degree that will be completed with other actions that allow a global analysis.


**STUDENT SATISFACTION  
WITH THE DEGREE**
**INTERNAL QUALITY ASSURANCE SYSTEM**
**FACULTY:** \_\_\_\_\_ **YEAR** \_\_\_\_\_

**DEGREE:** \_\_\_\_\_

*The aim of this questionnaire is to compile information on general satisfaction with the Degree. Information will be drawn from the data obtained and will be used by the Quality Assurance Committee to analyse and improve the Degree. Given the relevance of the information requested, it is of utmost importance that you answer in a sincere and responsible fashion. Answers will be treated anonymously.*

01.- Gender:  Male  
 Female

02.- You attend  Yes  
your classes on a  No  
regular basis:

03.- You have chosen this degree  Yes  
as a first option:  No

Please assess the following aspects according  
to the following satisfaction level scale:

from (1) Very poor/ Very dissatisfied to (5) Very well / Very satisfied

If there are any questions you cannot or do not wish to answer, please leave them blank

1	Information on the Syllabus published on the website of the Degree	1	2	3	4	5
2	Easy access to information on timetables, classrooms, exam dates, etc.	1	2	3	4	5
3	Usefulness of information included in Teaching Guides	1	2	3	4	5
4	Coordination among modules, in order to prevent gaps and overlaps	1	2	3	4	5
5	Coordination between theoretical and practical training within the different modules	1	2	3	4	5
6	Acquisition of knowledge and development of skills and attitudes (competences) proposed on the Teaching Guides	1	2	3	4	5
7	Teaching methodologies used in the different subjects of the Degree	1	2	3	4	5
8	Evaluation systems used in the different subjects of the Degree	1	2	3	4	5
9	Working area and atmosphere in the classrooms (equipment, lighting, air conditioning, acoustics, etc.)	1	2	3	4	5
10	Working area and atmosphere in the study rooms, IT rooms, labs, etc. (equipment, lighting, air conditioning, acoustics, etc.)	1	2	3	4	5
11	Adaptation of the classrooms, and the rest of working areas, to the number of students and the activities programmed in them	1	2	3	4	5
12	The different sources of information the Faculty has (databases, Aula Virtual, library resources, etc.)	1	2	3	4	5
13	Assistance provided at the Faculty Office	1	2	3	4	5
14	Activities related to the assistance and guidance provided to students (welcoming programmes, professional guidance, learning support, etc.)	1	2	3	4	5

Survey on student satisfaction with the Degree V14

**UNIVERSIDAD DE  
MURCIA**



**STUDENT SATISFACTION  
WITH THE DEGREE**

15	Information provided regarding mobility	1	2	3	4	5
16	Planning and coordination of mobility programmes	1	2	3	4	5
17	Your knowledge level of the Quality Assurance System of the Faculty (SGIC)	1	2	3	4	5
18	Information provided on subjects involving external work placements	1	2	3	4	5
19	In the event you have undertaken a work placement: Development of external work placement	1	2	3	4	5
20	In the event you have undertaken a work placement: Relation between the activities carried out during the work placement and contents of the Degree	1	2	3	4	5
21	If you are studying more than one Degree at the same time: Coordination between the syllabi involved	1	2	3	4	5
22	Only regarding Master's Degree If you have completed one... Complementary training to meet its knowledge levelling role	1	2	3	4	5
23	<b>General satisfaction level with the syllabus (organisation, schedule, workload, etc.)</b>	1	2	3	4	5
24	<b>General satisfaction level with available resources</b>	1	2	3	4	5
25	<b>General satisfaction level with the teaching staff</b>	1	2	3	4	5
26	<b>General satisfaction level with the Degree</b>	1	2	3	4	5

Finally, if you have any comments or suggestions not reflected in this questionnaire, please include them below.

Survey on student satisfaction with the Degree V14



**4.E. Survey of graduate satisfaction with the degree.**
**GRADUATE SATISFACTION  
WITH THE DEGREE**
**INTERNAL QUALITY ASSURANCE SYSTEM**
**FACULTY:** \_\_\_\_\_ **YEAR** \_\_\_\_\_

**DEGREE:** \_\_\_\_\_

The aim of this questionnaire is to compile information on general satisfaction with the Degree. Information will be drawn from the data obtained and will be used by the Quality Assurance Committee to analyse and improve the Degree. Given the relevance of the information requested, it is of utmost importance that you answer in a sincere and responsible fashion.

 00.- Gender:  Male  
 Female

Please **assess** the following aspects according to the following **satisfaction level** scale:

From (1) **Very poor/** Very dissatisfied to (5) **Very well /** Very satisfied

If there are questions you cannot or do not wish to answer, please leave them blank

1	Organisation of subjects within the syllabus to achieve the degree profile	1	2	3	4	5
2	Information published on the website of the Degree	1	2	3	4	5
3	External work placement subjects undertaken	1	2	3	4	5
4	Teaching methodologies used in the Degree	1	2	3	4	5
5	Training activities used in the Degree	1	2	3	4	5
6	Evaluation systems used in the Degree	1	2	3	4	5
7	Acquisition of knowledge and development of skills and attitudes (competences) proposed on the Teaching Guides	1	2	3	4	5
8	<b>General satisfaction level with the Degree</b>	1	2	3	4	5

Finally, if you have any comments or suggestions not reflected in this questionnaire, please include them below.

Survey on graduate satisfaction with the Degree V14



**4.F. Survey of teaching staff satisfaction with the degree.**
**SURVEY ON TEACHING STAFF SATISFACTION  
WITH THE DEGREE**
**INTERNAL QUALITY ASSURANCE SYSTEM**
**FACULTY:** \_\_\_\_\_ **YEAR:** \_\_\_\_\_

**DEGREE:** \_\_\_\_\_

The aim of this questionnaire is to compile information on general satisfaction with the Degree. Information will be drawn from the data obtained and will be used by the Quality Assurance Committee to analyse and improve the Degree. Given the relevance of the information requested, it is of utmost importance that you answer in a sincere and responsible fashion.

Gender:  Male  
 Female

Years of teaching: Less than 1 year   
From 1 to 5 years   
From 6 to 15 years   
More than 15 years

Please assess the following aspects according to the following satisfaction level scale:

From (1) Very poor/ Very dissatisfied to (5) Very well / Very satisfied

1	Planning and development of teaching activities	1	2	3	4	5
2	Teaching coordination in order to ensure the achievement of learning results.	1	2	3	4	5
3	Interdepartmental coordination for teaching programmes to prevent gaps and overlaps	1	2	3	4	5
4	Intradepartmental coordination for teaching programmes to prevent gaps and overlaps	1	2	3	4	5
5	Coordination between theoretical and practical activities	1	2	3	4	5
6	Time adaptation of the student's workload	1	2	3	4	5
7	Information published on the website of the Degree, both in terms of content and accessibility	1	2	3	4	5
8	Teaching improvement and updating activities offered by the Faculty or Professional Training and Development Centre	1	2	3	4	5
9	Teaching innovation and updating activities in which you have taken part	1	2	3	4	5
10	Working area and atmosphere in the classrooms (equipment, lighting, air conditioning, acoustics, etc.)	1	2	3	4	5
11	Working area and atmosphere in the study rooms, IT rooms, labs, etc. (equipment, lighting, air conditioning, acoustics, etc.)	1	2	3	4	5
12	Adaptation of the classrooms, and the rest of working areas, to the number of students and the activities programmed in them	1	2	3	4	5
13	The different sources of information the Faculty has (databases, library resources, Aula Virtual, etc.)	1	2	3	4	5
14	Undertaking a practicum (when included in the Degree) in order for the student to acquire professional or applied competences	1	2	3	4	5
15	Learning results (competences) achieved by students, compared to expected results	1	2	3	4	5
16	Activities related to the assistance and guidance provided to students (welcoming programmes, guidance, learning support, etc.)	1	2	3	4	5

Survey on teaching staff satisfaction with the Degree V14



**SURVEY ON TEACHING STAFF SATISFACTION  
WITH THE DEGREE**

17	Students' use of tutoring sessions	1	2	3	4	5
18	Your knowledge of the Quality Assurance System of the Faculty (SGIC)	1	2	3	4	5
19	The number of auxiliary teaching staff (labs, libraries...) is sufficient for the tasks to be carried out.	1	2	3	4	5
20	Training of auxiliary teaching staff (labs, libraries...)	1	2	3	4	5
21	(Only for Master's Degree and PhD) And in the event there are any: Complementary training to meet its competence and knowledge levelling role to facilitate learning in the Degree	1	2	3	4	5
5						
22	<b>General satisfaction level with the syllabus</b>	1	2	3	4	5
23	<b>General satisfaction level with available material resources</b>	1	2	3	4	5
24	<b>General satisfaction level with the Degree</b>	1	2	3	4	5

Finally, if you have any comments or suggestions not reflected in this questionnaire, please include them below.

Survey on teaching staff satisfaction with the Degree V14

**4.G. Survey of stakeholder's satisfaction with the degree.**
**EMPLOYER SATISFACTION  
WITH THE DEGREE**
**INTERNAL QUALITY ASSURANCE SYSTEM**

FACULTY: \_\_\_\_\_ YEAR \_\_\_\_\_

DEGREE: \_\_\_\_\_

The aim of this questionnaire is to compile information on general satisfaction with the Degree. Information will be drawn from the data obtained and will be used by the Quality Assurance Committee to analyse and improve the Degree. Given the relevance of the information requested, it is of utmost importance that you answer in a sincere and responsible fashion.

 00.- Gender:  Male  
 Female

Please **assess** the following aspects according to the following **satisfaction level** scale:

From (1) **Very poor/** Very dissatisfied to (5) **Very well /** Very satisfied

Questions that do not know or do not want to answer please leave them blank

For ALL employers:

1	Information published on the website of the Degree, if you have checked it	1	2	3	4	5
2	Communication between University and your Institution/Company	1	2	3	4	5

For employers who have or have had students undertaking their WORK PLACEMENT at their institution:

3	Development of external work placement agreement	1	2	3	4	5
4	Activities carried out by undergraduate students in your Institution/Company.	1	2	3	4	5
5	Knowledge and skills acquired by the student in the Degree, with regards to the functions to be carried out at your Institution/Company	1	2	3	4	5
6	Assessment system for the work placement programme	1	2	3	4	5
7	Coordination between the tutor in your Institution/Company and the tutor at the University for the work placement programme	1	2	3	4	5

For employers who hire or have hired GRADUATES:

8	On the training and competences of graduates hired by your Institution/Company	1	2	3	4	5
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Finally, if you have any comments or suggestions not reflected in this questionnaire, please include them below.

Survey on employer satisfaction with the Degree V14



## Appendix 5. List of scientific publications from the Establishment's academic staff in peer reviewed journals during the last three academic years.

1. Abellana, J. M., Martínez-Alarcon, L., Quereda, J. J., Herrero-Medrano, J. M., Mendonca, L., Mrowiec, A., et al. (2015). Validation of a quantitative polymerase chain reaction method for human alu gene detection in microchimeric pigs used as donors for xenotransplantation. *Transplantation Proceedings*, 47(1), 132-135.
2. Acuna, O. S., Torrecillas, A., Jimenez-Movilla, M., Bauersachs, S., & Aviles, M. (2016). A comparative analysis of the protein composition of the oviductal fluid and blood serum by two dimensional gel electrophoresis. *Reproduction in Domestic Animals*, 51, 63-63.
3. Acuna, O. S., Vilella, I., Canovas, S., Coy, P., Jimenez-Movilla, M., & Aviles, M. (2014). Detection of SPAM1 in exosomes isolated from the bovine oviductal fluid. *Reproduction in Domestic Animals*, 49, 97-98.
4. Adel, M., Amiri, A. A., Zorriehzahra, J., Nematollahi, A., & Esteban, M. A. (2015). Effects of dietary peppermint (mentha piperita) on growth performance, chemical body composition and hematological and immune parameters of fry caspian white fish (rutilus frisii kutum). *Fish & Shellfish Immunology*, 45(2), 841-847.
5. Agut, A., Carrillo, J. D., Anson, A., Belda, E., & Soler, M. (2016). Imaging diagnosis-urethrovaginal fistula caused by a migrating grass awn in the vagina. *Veterinary Radiology & Ultrasound*, 57(3), E30-E33.
6. Agut, A., Carrillo, J. D., Soler, M., Garcia, J. D., Belda, E., Gomez, M. A., et al. (2014). Cystitis glandularis in a cat. *Journal of Feline Medicine and Surgery*, 16(4), 363-365.
7. Agut, A., Talavera, J., Buendia, A., Anson, A., Santarelli, G., & Gomez, S. (2015). Imaging diagnosis-spontaneous pneumomediastinum secondary to primary pulmonary pathology in a dalmatian dog. *Veterinary Radiology & Ultrasound*, 56(5), E54-E57.
8. Alberto Garcia-Vazquez, F., Hernandez-Caravaca, I., Matas, C., Soriano-Ubeda, C., Abril-Sanchez, S., & Jose Izquierdo-Rico, M. (2015). Morphological study of boar sperm during their passage through the female genital tract. *Journal of Reproduction and Development*, 61(5), 407-413.
9. Alberto Garcia-Vazquez, F., Hernandez-Caravaca, I., Yanez-Quintana, W., Matas, C., Soriano-Ubeda, C., & Jose Izquierdo-Rico, M. (2015). Morphometry of boar sperm head and flagellum in semen backflow after insemination. *Theriogenology*, 84(4), 566-574.
10. Alberto Gonzalez-Bermudez, C., Castro, A., Perez-Rea, D., Frontela-Saseta, C., Martinez-Gracia, C., & Nilsson, L. (2015). Physicochemical properties of different thickeners used in infant foods and their relationship with mineral availability during in vitro digestion process. *Food Research International*, 78, 62-70.
11. Aldeguer, M., Lopez-Andreo, M., Gabaldon, J. A., & Puyet, A. (2014). Detection of mandarin in orange juice by single-nucleotide polymorphism qPCR assay. *Food Chemistry*, 145, 1086-1091.
12. Alejandra, R., Villena Begona, P., Maria Jesus, P. C., Berruero Gaspar, R., & Martinez-Lacuesta Eduardo, G. (2014). Assessing food acceptance in school children; qualitative visual record versus food waste analysis. *Nutricion Hospitalaria*, 29(5), 1054-1061.
13. Algarra, B., Han, L., Soriano-Ubeda, C., Aviles, M., Coy, P., Jovine, L., et al. (2016). The C-terminal region of OVGp1 remodels the zona pellucida and modifies fertility parameters. *Scientific Reports*, 6, 32556.
14. Algarra-Onate, B., Ballester, L., Gonzalez-Brusi, L., Garcia-Vazquez, F. A., Canovas, S., Garcia-Garcia, R. M., et al. (2016). Effect of the trypsin digestion in the zona pellucida of different mammalian species. *Reproduction in Domestic Animals*, 51, 67-67.
15. Alkmin, D. V., Parrilla, I., Tarantini, T., del Olmo, D., Vazquez, J. M., Martinez, E. A., et al. (2016). Seminal plasma affects sperm sex sorting in boars. *Reproduction Fertility and Development*, 28(5), 556-564.
16. Alkmin, D. V., Perez-Patino, C., Barranco, I., Parrilla, I., Vazquez, J. M., Martinez, E. A., et al. (2014). Boar sperm cryosurvival is better after exposure to seminal plasma from selected fractions than to those from entire ejaculate. *Cryobiology*, 69(2), 203-210.
17. Almela Rojo, P., Gomez Murcia, V., Gomez Fernandez, J. C., Ribeiro Do Couto, B., Milanes Maquilon, M., V., & Laorden Carrasco, M. L. (2015). Prolonged analgesia with multilamellar and pegylated unilamellar liposomal morphine in mice. *Basic & Clinical Pharmacology & Toxicology*, 117, 10-10.
18. Alminana, C., & Cuello, C. (2015). What is new in the cryopreservation of embryos? *Animal Reproduction*, 12(3), 418-427.
19. Alminana, C., Caballero, I., Heath, P. R., Maleki-Dizaji, S., Parrilla, I., Cuello, C., et al. (2014). The battle of the sexes starts in the oviduct: Modulation of oviductal transcriptome by X and Y-bearing spermatozoa. *Bmc Genomics*, 15, 293.
20. Alvarez, D., Salinas, J., Buendia, A. J., Ortega, N., del Rio, L., Sanchez, J., et al. (2015). Intratracheal infection as an efficient route for testing vaccines against chlamydia abortus in sheep. *Veterinary Journal*, 205(3), 393-398.
21. Aly, E., Lopez-Nicolas, R., Darwish, A. A., Frontela-Saseta, C., & Ros-Berruero, G. (2016). Supplementation of infant formulas with recombinant human lactoferrin and/or galactooligosaccharides increases iron bioaccessibility as measured by ferritin formed in caco-2 cell model. *Food Research International*, 89, 1048-1055.
22. Anantharaman, D., Muller, D. C., Lagiou, P., Ahrens, W., Holcatova, I., Merletti, F., et al. (2016). Combined effects of smoking and HPV16 in oropharyngeal cancer. *International Journal of Epidemiology*, 45(3), 752-761.
23. Andujar, C., Arribas, P., Ruiz, C., Serrano, J., & Gomez-Zurita, J. (2014). Integration of conflict into integrative taxonomy: Fitting hybridization in species delimitation of mesocarabus (coleoptera: Carabidae). *Molecular Ecology*, 23(17), 4344-4361.
24. Andujar, C., Soria-Carrasco, V., Serrano, J., & Gomez-Zurita, J. (2014). Congruence test of molecular clock calibration hypotheses based on bayes factor comparisons. *Methods in Ecology and Evolution*, 5(3), 226-242.
25. Anson, A., Laredo, F. G., Gil, F., Soler, M., Belda, E., Ayala, M. D., et al. (2015). Comparison of two techniques for ultrasound-guided axillary brachial plexus blockade in cats. *Journal of Feline Medicine and Surgery*, 17(6), 476-485.
26. Apolinar-Valiente, R., Romero-Cascales, I., Williams, P., Gomez-Plaza, E., Lopez-Roca, J. M., Ros-Garcia, J. M., et al. (2014). Effect of winemaking techniques on polysaccharide composition of cabernet sauvignon, syrah and monastrell red wines. *Australian Journal of Grape and Wine Research*, 20(1), 62-71.

27. Apolinar-Valiente, R., Romero-Cascales, I., Gomez-Plaza, E., Maria Lopez-Roca, J., & Maria Ros-Garcia, J. (2015). The composition of cell walls from grape marcs is affected by grape origin and enological technique. *Food Chemistry*, *167*, 370-377.
28. Apolinar-Valiente, R., Romero-Cascales, I., Gomez-Plaza, E., Maria Lopez-Roca, J., & Maria Ros-Garcia, J. (2015). Cell wall compounds of red grapes skins and their grape marcs from three different winemaking techniques. *Food Chemistry*, *187*, 89-97.
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31. Aragones, L., Lopez, I., Palazon, A., Lopez-Ubeda, R., & Garcia, C. (2016). Evaluation of the quality of coastal bathing waters in Spain through fecal bacteria *Escherichia coli* and *Enterococcus*. *Science of the Total Environment*, *566*, 288-297.
32. Arencibia, A., Corbera, J. A., Ramirez, G., Contreras, S., Morales, M., Jaber, J. R., et al. (2016). Three-dimensional time of flight magnetic resonance angiography of the heart and associated vessels in a cat. *Journal of Veterinary Cardiology*, *18*(4), 413-417.
33. Arencibia, A., Angel Sandoval, J., Gil, F., Raduan Jaber, J., Blanco, D., Diz, A., et al. (2015). Low-field magnetic resonance anatomic features of the neonatal foal thorax: An ex vivo study. *Turkish Journal of Veterinary & Animal Sciences*, *39*(4), 413-422.
34. Arencibia, A., Encinosa, M., Jaber, J. R., Morales, D., Blanco, D., Artilles, A., et al. (2015). Magnetic resonance imaging study in a normal bengal tiger (*Panthera tigris*) stifle joint. *BMC Veterinary Research*, *11*, 192.
35. Ausili, A., Sanchez, M., & Gomez-Fernandez, J. C. (2015). Attenuated total reflectance infrared spectroscopy: A powerful method for the simultaneous study of structure and spatial orientation of lipids and membrane proteins. *Biomedical Spectroscopy and Imaging*, *4*(2), 159-170.
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37. Ayala, M. D., Arizcun, M., Garcia-Alcazar, A., Santaella, M., & Abellan, E. (2015). Long-term effects of the larval photoperiod on the subsequent growth of shi drum *Umbrina cirrosa* L. specimens and the fillet texture at commercial size. *Turkish Journal of Fisheries and Aquatic Sciences*, *15*(1), 93-101.
38. Ayala, M. D., Hernandez-Urcera, J., Santaella, M., & Cal, R. (2016). Lasting temperature effects on the muscle tissue, body growth, and fillet texture of adult turbot, *Scophthalmus maximus* L. *Journal of the World Aquaculture Society*, *47*(6), 759-767.
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40. Ballester, L., Romero-Aguirregomez-corta, J., Soriano-Ubeda, C., Matas, C., Romar, R., & Coy, P. (2014). Timing of oviductal fluid collection, steroid concentrations, and sperm preservation method affect porcine in vitro fertilization efficiency. *Fertility and Sterility*, *102*(6), 1762-U598.
41. Banon, S., Serrano, R., & Bedia, M. (2014). Factors limiting the shelf-life of salami pieces kept in retailing conditions. *Italian Journal of Food Science*, *26*(3), 289-299.
42. Banon, S., Serrano, R., & Bedia, M. (2014). Use of micrococccaceae combined with a low proportion of lactic acid bacteria as a starter culture for salami stuffed in natural casing. *Cyta-Journal of Food*, *12*(2), 160-165.
43. Barbosa, A., Balague, V., Valera, F., Martinez, A., Benzal, J., Motas, M., et al. (2016). Age-related differences in the gastrointestinal microbiota of chinstrap penguins (*Pygoscelis antarctica*). *Plos One*, *11*(4), e0153215.
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45. Barranco, I., Ruber, M., Perez-Patino, C., Atikuzzaman, M., Martinez, E. A., Roca, J., et al. (2015). The seminal plasma of the boar is rich in cytokines, with significant individual and intra-ejaculate variation. *American Journal of Reproductive Immunology*, *74*(6), 523-532.
46. Barranco, I., Tvarijonavičiute, A., Perez-Patino, C., Parrilla, I., Ceron, J. J., Martinez, E. A., et al. (2015). High total antioxidant capacity of the porcine seminal plasma (SP-TAC) relates to sperm survival and fertility. *Scientific Reports*, *5*, 18538.
47. Barranco, I., Tvarijonavičiute, A., Perez-Patino, C., Vicente-Carrillo, A., Parrilla, I., Ceron, J. J., et al. (2016). Glutathione peroxidase 5 is expressed by the entire pig male genital tract and once in the seminal plasma contributes to sperm survival and in vivo fertility. *Plos One*, *11*(9), e0162958.
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50. Bautista-Ortin, A. B., Ben Abdallah, R., Castro-Lopez, L. D. R., Jimenez-Martinez, M. D., & Gomez-Plaza, E. (2016). Technological implications of modifying the extent of cell wall-proanthocyanidin interactions using enzymes. *International Journal of Molecular Sciences*, *17*(1).
51. Bautista-Ortin, A. B., Cano-Lechuga, M., Ruiz-Garcia, Y., & Gomez-Plaza, E. (2014). Interactions between grape skin cell wall material and commercial enological tannins. practical implications. *Food Chemistry*, *152*, 558-565.
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53. Belen Bautista-Ortin, A., Martinez-Hernandez, A., Ruiz-Garcia, Y., Gil-Munoz, R., & Gomez-Plaza, E. (2016). Anthocyanins influence tannin-cell wall interactions. *Food Chemistry*, *206*, 239-248.
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  62. Boswood, A., Haggstrom, J., Gordon, S. G., Wess, G., Stepien, R. L., Oyama, M. A., et al. (2016). Effect of pimobendan in dogs with preclinical myxomatous mitral valve disease and cardiomegaly: The EPIC study-A randomized clinical trial. *Journal of Veterinary Internal Medicine*, 30(6), 1765-1779.
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  64. Brandwein, M., Al-Quntar, A., Goldberg, H., Mosheyev, G., Goffer, M., Marin-Iniesta, F., et al. (2016). Mitigation of biofilm formation on corrugated cardboard fresh produce packaging surfaces using a novel thiazolidinedione derivative integrated in acrylic emulsion polymers. *Frontiers in Microbiology*, 7, 159.
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