ACADEMIC YEAR 2022/2023

General information	
Integrated course	**ANATOMY 2**
Integrated academic modules	**Anatomy of Domestic Animals 2;** **Topographic Anatomy.**
Academic Year	I
ECTS	9 (lectures: 7 ECTS; practical activity:2 ECTS)
SSD	VET/01
Language	Italian
Academic calendar	IV 7weeks term
Attendance	Yes

Teacher	**e-mail address**	**telephone**
Letizia Passantino	letizia.passantino@uniba.it	080 5443904
Salvatore Desantis	salvatore.desantis@uniba.it	080 5443801

Department	Campus of Veterinary Medicine, S.P. per Casamassima km 3, 70010 Valenzano (Ba), Italy
Virtual room	Teams platform
Tutoring (time and day)	Prof. Desantis : Monday-Wednesday- Friday: 15:30 - 17:30 Prof.ssa Passantino L. Tuesday and Thursday: 14:30 - 17:30, by appointment .

Syllabus	
Learning Objectives	The educational objectives of the integrated Anatomy 2 course are aimed at providing students with knowledge and skills of macroscopic and microscopic anatomy of internal organs and of regional and stratigraphic anatomy of animals, including avian species. The course will provide students with the theoretical and practical elements necessary for understanding the organization of the different apparatuses and systems as well as the regional stratigraphy also including topography of the main blood vessels, nerves and lymphocenters for a better learning of subjects relating to clinical and inspection practice. veterinary.
Course prerequisites	Anatomy 1. The students must have knowledge of cytology, histology and the anatomy of the musculoskeletal system of domestic animals.
Contents of the teaching module: **Anatomy of Domestic Animals 2** Teacher: **Letizia PASSANTINO** **Lectures** **ECTS:4** **Hour: 40**	The module concerns Basic Science Introduction to the course: Body cavities, serosa, morpho-structural organization of the viscera. Digestive System: Mouth, Pharynx, Esophagus, Stomach, Intestine, Liver, Pancreas. Respiratory system: Nasal cavities, Larynx, Trachea, Bronchi, Lungs, Pleura. Blood Circulatory System: Heart, Arteries, Veins. Lymphatic System: Vessels, Lymph Nodes, Hemolymph Nodes, Spleen, Thymus. Urinary system: kidneys, ureter, bladder, urethra. Male Genital System: Testicles, Epididymis, Ductus deferens, Spermatic Funiculus, Attached Glands, Penis. Female Genital System: Ovary, Tube uterine, Uterus, Vagina, Vulva and clitoris. Endocrine system: Pituitary, Epiphysis, Thyroid, Parathyroid, Adrenal glands,

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Practical activity **ECTS: 2** **Hours 30**	Pancreas. Central Nervous System: Brain and Spinal cord. Peripheral Nervous System. Spinal nerves and Cranial nerves. Vegetative nervous system. Sense Organs: Sight, Hearing, Smell and Taste. Outline of avian anatomy. Outline of avian anatomy. Macroscopic study of heart, lymph nodes, spleen, kidneys, ureter and bladder, all organs of the digestive system, respiratory system, male and female genital apparatus of horses, ruminants, pigs and carnivores, describing their macroscopic characteristics highlighting the comparative notes of the same in the different species.
Contents of the teaching module: **Topographic Anatomy** Teacher: **Salvatore DESANTIS** **Lectures** **ECTS: 2** **Hours : 20** **Practical activity** **ECTS: 1** **Hours: 15**	The course concerns the Basic Sciences. Limits, anatomical relationship, stratigraphy, principal blood vessels, nerves and lymphocentres of the body regions (head, neck, thorax, abdomen, pelvis, forelimbs, hindlimbs) and of the organs located within the body cavities of herbivores and carnivora. The practical activity is aimed at undertaking the dissection of body regions to analyze the stratigraphy, the vascularization, the innervation, and lymphocentres of body regions as well as the topography of organs present in the body cavities of cadavers, under the guide of the lecturer.

Organization of practical activities	Practical activities are held in the dissecting room of the normal anatomy and are organized in the afternoon during the two-month teaching period according to the schedule reported in the lesson diary. Students will be divided into groups and the activities will be replicated for each group. The number of groups and the number of students per group will depend on the type of practical activity. .
Biosecurity standards for the practical activities	Access to the laboratories is allowed only to students equipped with protective clothing (gowns, disposable latex gloves, boots), who have taken a look at the biosafety manual and signed the consent form for the risk exposure. For details, refer to the manual and the biosafety sheets of the dissecting room of the normal anatomy .

Personal study books and	

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bibliografy	
Books and bibliography	**Anatomy of Domesti Animals 2**: R. Barone: Anatomia Comparata degli Animali Domestici – Edagricole Konig-Liebich, Anatomia dei mammiferi domestici, Piccin. G.V. Pelagalli, V. Botte: Anatomia Veterinaria Sistematica e Comparata – Edi Ermes H.D. Dellmann, E.M. Brown, Istologia e anatomia microscopica veterinaria, Ed. Grasso. T. Zavanella, Anatomia Microscopica Veterinaria, Antonio Delfino Editore. P. Popesko, Atlas of Topographical Anatomy of the Domestic Animals, W.B. Saunders Comp., Phyland., London **Topographic Anatomy:** Grandis A. et al: Anatomia veterinaria regionale e applicata. Antonio Delfino Editore. Merighi A: Anatomia applicata e Topografia regionale veterinaria. Ed. Piccin König HE, Liebich HG: Anatomia degli animali domestici. Ed.Piccin Popesko P: Atlante di Anatomia Topografica degli Animali Domestici voll. I, II, III. Ed. Grasso Gil J, Gimeno M, Laborda J, Nuviala J: Anatomia del cane. Protocolli di dissezione. Ed. Piccin Saunders: Anatomia veterinaria da colorare. Ed. Piccin.
Additional materials	Notes from the lessons and slides projected during the lessons (available on the google drive platform) and is available on the Teams teaching platform.

Work schedule			
Hours			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
225	60	45	120
ETCS			
9	6	3	

Teaching methodologies	The main teaching methodologies adopted in the integrated course are represented by lectures in the classroom flanked by different methodologies to integrate information, facilitate the learning process and consolidate the knowledge. Self-learning activities are also provided through the use of audiovisuals and films available to students on the Teams platform and self-assessment tests provided by teachers. During the practical activity, great importance will be given to handling and the study of organs, animal body or parts of them (learning by doing) and also disassembled animal models will be used to facilitate the acquisition of skills and competences. Practical lessons are held in the normal Anatomy sector room. The students, divided into small groups of a maximum of 5-6 people, are followed by the owners of the subject and their collaborators. Each student is asked to individually carry out the study of the organs and anatomical regions covered by the exercise and to discuss them with the teacher and collaborators. During the course theoretical and practical tests of the learning status are foreseen. The course is not delivered in e-learning mode.

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Expected learning outcomes	
Knowledge and understanding on:	• Understanding of, and competence in, the logical approaches to scientific reasoning (DOC 2.1) • Research methods, the contribution of basic and applied research to veterinary science (DOC 2.2). • Structure and topography of organs, and their physiological functions (DOC 2.3). • Principles of effective interpersonal interaction, including communication, leadership, management and team working (DOC. 2.11).
Applied knowledge and understanding on:	• Be able to review and evaluate literature and presentations critically (DOC 1.8). • Demonstrate an ability of lifelong learning and a commitment to learning and professional development (DOC 1.13). • Take part in self-audit and peer-group review processes in order to improve performance (DOC 1.14)
Soft skills	*Making informed judgments and choices* • Be able to review and evaluate literature and presentations critically. (DOC 1.8). • Understanding of, and ability to choose in full autonomy, the most logical and appropriate approaches to the study of organs and anatomical regions, by both scientific and applyed reasoning (DOC 2.1). *Communication* • Communicate effectively using language appropriate to the audience concerned (DOC 1.4) • Work effectively as a member of a multi-disciplinary team in the delivery of services, using appropriate communicative and interactive strategies (DOC 1.6) *Capacities to learning indipendently* • Be able to review and evaluate literature and presentations critically (DOC 1.8) • Ability to independently learn and deepen topics of professional interest while maintaining lifelong learning (DOC 1.13)
Summary of the acquired skills (Day One Competence) as provided by the EAEVE	***Skills:*** *1.4* *1.6* *1.8* *1.13* *1.14* *2.1* *2.2* *2.3* *2.11*

Assessment and feedback	
Methods of assessment	The exam of the integrated course “Anatomy 2” allows the acquisition of 9 CFUs

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	required by the plan of study. The exam includes optional on-going tests, and one oral exam of the "Anatomy of domestic animals 2" module, which consists in the identification at the light microscope of the microscopic structures of an organ and in the description of the gross anatomy of organs exhibited on the anatomical table. After passing this test, the student can take the oral exam of "Topographical Anatomy". The oral examination of the two modules can be taken in the same session or in different sessions. The CFUs are considered acquired after passing the two parts and recording the minutes on the ESSE3 portal.
Evaluation criteria	• *Knowledge and understanding:* In depth knowledge of macroscopic, microscopic and topografic features of the organs as well as the regional stratigraphy. **Score: 1-8** • *Applying knowledge and understanding:* Application skills of the knowledge acquired for the identification of the microscopic, macroscopic and stratigraphic structures. **Score: 1-8** • *Autonomy of judgment:* Ability to individuate the best approach for interspecific recognition, handling, description of organs and regions. **Score: 1-8** • *Communication skills:* ➢ exact, complete, and understandable description of the topics covered in the course ➢ use of an appropriate anatomical and scientific terminology. **Score: 1-3** • *Ability to learn:* Autonomous ability to re-elaborate acquired knowledge and to access scientific literature and databases for continuous updating. **Score: 1-3**
Measurement criteria learning and attribution of the final grade	The results of the Anatomy of Domestic Animals 2 and Topographical Anatomy tests will contribute to the definition of the final mark of the Anatomy 2 exam. The final grade is the result of the collegial judgment relating to the two partial tests in which the student must demonstrate that he has also acquired a critical sense of the topics studied. The final evaluation, expressed in thirtieths, will be considered passed with a grade equal to or greater than 18 and will take into consideration not only the accuracy of the answer, but also the communication skills, clarity of presentation, disciplinary competence and the level of detail. In the case of maximum marks (30/30), honors can be attributed.
Additional information	

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