

Anatomy with Organogenesis of Domestic Animals II

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzlova 55
Tel. 01/239 249
Division: Basic and Pre-clinical Sciences Division
Organizational unit: Anatomy, Histology and Embryology
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Register No of the organisational unit: 61-05-2024/6
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Veterinarski fakultet u Zagrebu		
Primljeno:	24.01.2024	
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COURSE SYLLABUS

Course name: Anatomy with Organogenesis of Domestic Animals II

Academic year 2023/2024

Course leader: Assist. Prof. Ivan Alić
Deputy course leader: Full Prof. Martina Đuras

Teachers: Full Prof. Martina Đuras; Full Prof. Srebrenka Nejedli; Full Prof. Tajana Trbojević Vukičević; Assist. Prof. Ivan Alić; Assist. Prof. Mirela Pavić Vulinović; teaching assistant Magdalena Kolenc, DVM; teaching assistant Kim Korpes, DVM; teaching assistant Denis Leiner, DVM; teaching assistant Ante Plečaš, DVM

First day of classes: 29/02/2024

Last day of classes: 24/05/2024

Activities - Anatomy with organogenesis of domestic animals II (1/6)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
29/02/2024	14:00	14:45	p01 Trunk skeleton	2E-1, 2E-2, 2E-3, P_amfiteatar		0:45	Trbojevic-Vukicevic T.	P_amfiteatar
01/03/2024	9:15	10:45	v01 Thoracic vertebrae	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
04/03/2024	14:15	15:45	v02 Lumbar and sacral vertebrae	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
05/03/2024	13:45	15:15	v03 Ribs and sternum	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
06/03/2024	10:00	10:45	p02 Mammary gland	2E-1, 2E-2, 2E-3, P_amfiteatar		0:45	Trbojevic-Vukicevic T.	P_amfiteatar
06/03/2024	11:00	12:30	v04 Regions of the trunk	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
07/03/2024	8:15	9:45	v05 Mammary gland	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
08/03/2024	13:30	15:00	p03 Body wall	2E-1, 2E-2, 2E-3, P_amfiteatar		1:30	Trbojevic-Vukicevic T.	P_amfiteatar
11/03/2024	13:30	15:00	v06 Muscles of the pectoral girdle	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
12/03/2024	13:30	15:00	v07 Fascia of the trunk	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
13/03/2024	13:30	15:00	v08 Respiratory muscles	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
14/03/2024	10:00	11:30	v09 Pectoral cavity	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat

Activities - Anatomy with organogenesis of domestic animals II (2/6)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
18/03/2024	8:15	9:45	v10 Pleurae	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
19/03/2024	10:45	12:15	p04 Nervous, lymphatic and endocrine system	2E-1, 2E-2, 2E-3, P_amfiteatar		1:30	Đuras M.	P_amfiteatar
20/03/2024	12:15	13:00	p05 Lungs and trachea	2E-1, 2E-2, 2E-3, P_amfiteatar		0:45	Alic I.	P_amfiteatar
21/03/2024	8:15	9:45	v11 Trachea and lungs	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
22/03/2024	13:30	15:00	v12 Pulmonary root and hilus	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
25/03/2024	13:30	15:00	v13 Bronchal tree	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
26/03/2024	13:00	14:30	p06 Heart	2E-1, 2E-2, 2E-3, P_amfiteatar		1:30	Đuras M.	P_amfiteatar
02/04/2024	13:45	15:15	v14 Medial mediastinum and pericardium	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
03/04/2024	8:15	9:45	v15 External heart	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
04/04/2024	9:15	10:00	p07 Blood vessels of the trunk	2E-1, 2E-2, 2E-3, P_amfiteatar		0:45	Alic I.	P_amfiteatar
04/04/2024	10:15	11:45	v16 Heart chambers	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
05/04/2024	9:15	10:45	v17 Heart supply	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat

Activities - Anatomy with organogenesis of domestic animals II (3/6)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
08/04/2024	8:30	10:00	v18 Aorta	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
12/04/2024	10:00	11:30	v19 Mediastinum	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
15/04/2024	8:15	9:45	v20 Subclavian artery	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
16/04/2024	10:00	11:30	p08 Digestive system 1	2E-1, 2E-2, 2E-3, P_amfiteatar		1:30	Nejedli S.	P_amfiteatar
16/04/2024	11:45	13:15	v21 Autonoomic nerves	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
17/04/2024	8:15	9:45	p09 Digestive system 2	2E-1, 2E-2, 2E-3, P_amfiteatar		1:30	Nejedli S.	P_amfiteatar
17/04/2024	11:45	13:15	v22 Abdominal muscles and cavity	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
17/04/2024	15:30	16:15	Anatomy with organogenesis of domestic animals II	2E-1, 2E-2, 2E-3	Anatomy II	0:45	Alic I.	R_stocarstvo mala, R_stocarstvo velika
18/04/2024	9:15	10:45	v23 Simple stomach	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
19/04/2024	8:15	9:45	v24 Composed stomach	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
22/04/2024	13:30	15:00	v25 Peritoneal cavity and omenta	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
23/04/2024	8:30	10:00	v26 Intestine of carnivores	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat

Activities - Anatomy with organogenesis of domestic animals II (4/6)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
24/04/2024	8:15	9:45	v27 Intestine of ruminants	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
25/04/2024	11:00	12:30	v28 Intestine of pigs	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
26/04/2024	11:45	13:15	v29 Intestine of horse	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
29/04/2024	11:00	12:30	p10 Urinary system	2E-1, 2E-2, 2E-3, P_amfiteatar		1:30	Alic I.	P_amfiteatar
30/04/2024	13:45	15:15	v30 Liver	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
06/05/2024	10:00	11:30	v31 Pancreas and spleen	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
07/05/2024	10:00	11:30	v32 Kidney and ureter	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
08/05/2024	8:45	10:15	v33 Urinary bladder and urethra	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
08/05/2024	10:30	12:00	p12 Female genital organs	2E-1, 2E-2, 2E-3, P_amfiteatar		1:30	Pavic Vulinovic M.	P_amfiteatar
09/05/2024	8:15	9:45	v34 Scrotum and testicle	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
09/05/2024	11:30	13:00	p11 Male genital organs	2E-1, 2E-2, 2E-3, P_amfiteatar		1:30	Pavic Vulinovic M.	P_amfiteatar
10/05/2024	10:00	11:30	v35 Deferens duct and penis	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat

Activities - Anatomy with organogenesis of domestic animals II (5/6)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
13/05/2024	9:00	10:30	v36 Female genital organs	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
14/05/2024	10:00	11:30	v37 Abdominal aorta	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
15/05/2024	8:15	9:45	v38 Pelvic vessels and nerves	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
16/05/2024	8:15	9:45	v39 Muscles of the back	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
17/05/2024	10:00	11:30	v40 Spine and Spinal cord	2E-1, 2E-2, 2E-3, S_anatomija I kat		1:30		S_anatomija I kat
20/05/2024	10:00	13:00	v41 Dissection of the carnivore	2E-1, 2E-2, 2E-3, S_patologija		3:00		S_patologija
21/05/2024	10:00	13:00	v42 Dissection of the pig	2E-1, 2E-2, 2E-3, S_patologija		3:00		S_patologija
22/05/2024	10:00	13:00	v43 Dissection of the ruminant	2E-1, 2E-2, 2E-3, S_patologija		3:00		S_patologija
23/05/2024	14:00	17:00	v44 Dissection of the thoracal organs	2E-1, 2E-2, 2E-3, S_anatomija I kat		3:00		
24/05/2024	8:15	11:15	v45 Dissection of the abdominal organs	2E-1, 2E-2, 2E-3, S_anatomija I kat		3:00		
27/05/2024	15:00	15:45	Anatomy with organogenesis of domestic animals II	2E-1, 2E-2, 2E-3	Anatomy II	0:45	Alic I.	R_stocarstvo mala, R_stocarstvo velika
03/06/2024	15:30	16:15	Anatomy with organogenesis of domestic animals II	2E-1, 2E-2, 2E-3	Anatomy II	0:45	Alic I.	R_stocarstvo mala, R_stocarstvo velika

Activities - Anatomy with organogenesis of domestic animals II (6/6)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
07/06/2024	10:00	10:45	Anatomy with organogenesis of domestic animals II	2E-1, 2E-2, 2E-3	Anatomy II	0:45	Alic I.	R_stocarstvo mala, R_stocarstvo velika
Total: 61						93:00		

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STUDENT OBLIGATIONS

Lecture attendance	The course has 20 hours of lectures. One hour of lecture (45 minutes) is equal to 0.3 points. Lecture attendance is graded with 6 points in total. The student has to attend at least 10 hours of lectures (3 points).
Practicals attendance	The course has 100 hours of practicals. One hour of practicals (45 minutes) is equal to 0.12 points. Practical session attendance is graded with 12 points in total. The student has to attend at least 70 hours of practicals (8 points).
Active participation in seminars and practicals	Active participation in the practical session is evaluated through short oral testing during practicals and is graded with 10 points in total. The student has to achieve at least 5 points.
Final exam	Oral exam is graded with 40 points in total. The student has to achieve at least 24 points at the oral exam.
Examination requirements	Student requirements are defined in the Regulations on the Integrated Undergraduate and Graduate Study of Veterinary Medicine (2022). Given the above, the student must acquire a minimum number of points from all assessment elements in order to take the final exam. Article 41: a student can justifiably be absent from up to 50% of the lectures and 30% of the practicals.

GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	<p>There are two written tests. A maximum of 16 points per test can be achieved. The student has to achieve at least 10 points per test in order to pass. The points of both passed tests are summarized. Both tests are graded together with a maximum of 32 points. Passing these two tests is a pre-condition for taking the oral exam.</p> <p>Written test I will be held on 17/4/2024, 3:30-4:30pm, in the Large and Small Computer Hall (1st repetition: 3/6/2024, 3:30-4:30pm, Large Computer Hall; 2nd repetition: 7/6/2024, 10:00-11:00am, Large Computer Hall).</p> <p>Written test II will be held on 27/5/2024, 3:00-4:00pm, in the Large and Small Computer Hall (1st repetition: 3/6/2024, 3:30-4:30pm, Large Computer Hall; 2nd repetition: 7/6/2024, 10:00-11:00am, Large Computer Hall).</p>
Final exams (dates)	14/6/2023, 26/6/2023, 5/7/2023, 11/9/2023, 19/9/2023
Form of final exam	Oral exam is graded with 40 points in total. The student has to achieve at least 24 points at the oral exam.

LITERATURE

Anatomy with Organogenesis of Domestic Animals II

Obligatory literature	<p>KÖNIG, H. E., H.-G. LIEBICH (2007): Veterinary anatomy of domestic mammals, Textbook and color atlas. 3rd Ed. Schattauer, Stuttgart, New York</p> <p>DYCE, K. M., W. O. SACK, C. J. G. WENSING (2010): Textbook of veterinary anatomy. 4th Ed. Saunders Elsevier, Philadelphia.</p> <p>DONE, S. H., P. C. GOODY, S. A. EVANS, N. C. STICKLAND (2009): Color atlas of veterinary anatomy. Volume 3. The dog and cat. 2nd Ed. Mosby Elsevier, Edinburgh, London, New York.</p> <p>EVANS, H. E., A. de LAHUNTA (2010): Guide to the dissection of the dog. 7th Ed. Saunders Elsevier. Philadelphia.</p> <p>McGEADY, T. A., P. J. QUINN, E. S. FITZPATRICK, M. T. RYAN (2006): Veterinary embryology. Blackwell Publishing, Dublin.</p>
Optional literature	<p>NICKEL, R., A. SCHUMMER, E. SEIFERLE (1986): The locomotor system of the domestic mammals. Volume I. Verlag Paul Parey, Berlin, Hamburg.</p> <p>NICKEL, R., A. SCHUMMER, E. SEIFERLE (1981): The circulatory system, the skin, and the cutaneous organs of the domestic mammals. Volume III. Verlag Paul Parey, Berlin, Hamburg.</p> <p>EVANS H. E., A. De LAHUNTA (2012): Miller's anatomy of the dog. 4th Ed. WB Saunders Company, Philadelphia, London.</p> <p>SCHALLER, O. (2007): Illustrated veterinary anatomical nomenclature. 2nd Ed. Ferdinand Enke Verlag, Stuttgart.</p> <p>HYTTEL, P., F. SINOWATZ, M. VEJLSTED (2010): Essentials of domestic animal embryology. Saunders Elsevier, Philadelphia.</p> <p>SADLER, T. W. (2006): Langman's medical embryology, Lippincott Williams & Wilkins a Wolters Kluwer business. 10th Ed. Philadelphia, Baltimore, New York.</p>

OBJECTIVES AND LEARNING OUTCOMES

Course objectives	The course presents the gross anatomy of domestic animals with the embryonic development of organs and organic systems to veterinary medicine students in order to ensure basic knowledge for other disciplines such as physiology, pathology and clinical courses.
Learning outcomes	Following successful completion of the course, students will be able to:

Anatomy with Organogenesis of Domestic Animals II

1. list and describe major anatomical structures of the trunk including the viscera of domestic mammals
2. explain the development of the viscera
3. apply anatomical nomenclature
4. skilled communicate anatomical information
utilize dissection skills

GRADING SCHEME

<i>Points</i>	<i>Grade</i>
Up to 59	1 (F)
60-76	2 (D, E)
77-84	3 (C)
85-92	4 (B)
93-100	5 (A)

Course leader


Assist. Prof. Ivan Alić

Head of organizational unit:


Full Prof. Martina Đuras

Note: The course leader is required to submit a Course Syllabus to all teachers and associates pertaining to the Cours