

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
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Division: Basic and Pre-clinical Sciences Division
Organizational unit: Anatomy, Histology and Embryology
E-mail of the course leader: mpavic@vef.unizg.hr
Register No of the organisational unit: 61-05-2023/353
Zagreb, 7/09/2023

		
170608	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	12.09.2023	
Klasifikacijska oznaka	Org. jed.	
605-03/23-04/28	251-61-32;	
Uredžbeni broj	Prilozi	Vrijednost
251-61-05-23-22	0	-

COURSE SYLLABUS

Course name: Anatomy with Organogenesis of Domestic Animals III

Academic year 2023/2024

Course leader: Assist. Prof. Mirela Pavić Vulinović
Deputy course leader: Assist. Prof. Ivan Alić

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: 02/10/2023
Last day of classes: 17/11/2023

Activities - Anatomy with Organogenesis of Domestic Animals III (1/5)							
Start Dat	Start Tim	End Time	Subject	Group	Instructor	Room	Length
02/10/2023	8:15	9:45	p01 Head skeleton and cervical spine	3E-1, 3E-2, 3E-3	Alic I.	P_fiziologija	1:30
02/10/2023	10:15	11:45	v01 Cervical vertebrae	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
03/10/2023	8:15	9:45	v02 Cranial bones I	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
04/10/2023	8:15	9:45	v03 Cranial bones II	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
05/10/2023	8:15	9:45	v04 Facial bones I	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
06/10/2023	8:15	9:45	v05 Facial bones II	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
09/10/2023	8:15	9:45	v06 Skull as whole, hyoid apparatus	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
09/10/2023	10:15	11:00	p02 Head and neck muscles	3E-1, 3E-2, 3E-3	Alic I.	P_amfiteatar	0:45
09/10/2023	11:00	11:45	p03 Blood supply, lymphatic system and endocrine tissues	3E-1, 3E-2, 3E-3	Nejedli S.	P_amfiteatar	0:45

Activities - Anatomy with Organogenesis of Domestic Animals III (2/5)							
Start Dat	Start Tim	End Time	Subject	Group	Instructor	Room	Length
10/10/2023	8:15	9:45	v07 Regions, skin and facial muscles	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
11/10/2023	8:15	9:45	v08 Mandibular muscles	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
12/10/2023	8:15	9:45	v09 Superficial muscles of the neck	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
13/10/2023	8:15	9:45	v10 Deep neck muscles and the nuchal ligament	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
13/10/2023	10:15	11:45	p04 Mouth, salivary glands, pharynx and esophagus	3E-1, 3E-2, 3E-3	Đuras M.	P_amfiteatar	1:30
16/10/2023	8:15	9:45	v11 Structures of the ventral neck region	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
17/10/2023	8:15	9:45	v12 External carotid artery and lymph nodes	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
18/10/2023	8:15	9:45	v13 Superficial structures of facial regions	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30

Activities - Anatomy with Organogenesis of Domestic Animals III (3/5)							
Start Dat	Start Tim	End Time	Subject	Group	Instructor	Room	Length
19/10/2023	8:15	9:45	v14 Deep structures of facial regions and the temporomandibular joint	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
20/10/2023	8:15	9:45	v15 Mouth and oral cavity	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
23/10/2023	8:15	9:45	p05 Upper respiratory tract, larynx and trachea	3E-1, 3E-2, 3E-3	Trbojevic-Vukicevic T.	P_amfiteatar	1:30
23/10/2023	14:15	15:45	v16 Pharynx	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
24/10/2023	8:15	9:45	v17 External nose and nasal cavity and paranasal cavities	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
24/10/2023	14:00	15:30	p06 Brain and spinal cord	3E-1, 3E-2, 3E-3	Pavic Vulinovic M.	P_amfiteatar	1:30
25/10/2023	8:15	9:45	v18 Larynx	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
26/10/2023	8:15	9:45	v19 Meninges	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30

Activities - Anatomy with Organogenesis of Domestic Animals III (4/5)							
Start Dat	Start Tim	End Time	Subject	Group	Instructor	Room	Length
27/10/2023	8:15	9:45	v20 Brain	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
27/10/2023	10:15	11:00	p07 Cranial nerves	3E-1, 3E-2, 3E-3	Trbojevic-Vukicevic T.	P_amfiteatar	0:45
30/10/2023	8:15	9:45	v21 Cranial nerves I-VI	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
30/10/2023	14:15	15:00	p08 Eye	3E-1, 3E-2, 3E-3	Pavic Vulinovic M.	P_amfiteatar	0:45
30/10/2023	15:00	15:45	p09 Vestibulocochlear organ	3E-1, 3E-2, 3E-3	Đuras M.	P_amfiteatar	0:45
31/10/2023	8:15	9:45	v22 Cranial nerves VII-XII	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
06/11/2023	8:15	9:45	v23 Eye	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
07/11/2023	10:00	11:30	v24 Vestibulocochlear organ	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
08/11/2023	9:15	10:45	v25 Dissection of the head and neck I	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
09/11/2023	8:15	9:45	v26 Dissection of the head and neck II	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30

Activities - Anatomy with Organogenesis of Domestic Animals III (5/5)							
Start Dat	Start Tim	End Time	Subject	Group	Instructor	Room	Length
13/11/2023	8:15	9:45	v27 Dissection of the head and neck III	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
13/11/2023	14:15	15:45	p10 Basic gross anatomy of domestic birds	3E-1, 3E-2, 3E-3	Nejedli S.	P_amfiteatar	1:30
14/11/2023	10:15	11:45	v28 Dissection of the head and neck IV	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
15/11/2023	8:15	9:45	v29 Dissection of the head and neck V	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
16/11/2023	10:15	11:45	v30 Avian osteology	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	1:30
17/11/2023	8:15	10:30	v31 Dissection of the chicken	3E-1, 3E-2, 3E-3	Nastavnici na predmetu	S_anatomija I kat	2:15
Total: 41							58:30

STUDENT OBLIGATIONS

Lecture attendance	The course has 15 hours of lectures. Lecture attendance is graded with 6 points in total. The student has to attend at least 8 hours of lectures and achieve at least 3 points.
Practicals attendance	The course has 63 hours of practicals. Practical attendance is graded with 12 points in total. The student has to attend at least 42 hours of practicals and achieve at least 8 points.
Active participation in practicals	Active participation in the practicals 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; 30% of the seminars and 30 % of the exercises.

GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	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. The written tests will be held in the Computer Halls of the Department for Animal Breeding and Livestock Production. Written test I will be held on 25/10/2023, 10-11, in the Large and Small Computer Hall (1st repetition: 8/11/2023, 14-15, Small Computer Hall; 2nd repetition: 14/12/2023, 14-15, Small Computer Hall). Written test II will be held on 21/11/2023, 11-12, in the Large and Small Computer Hall (1st repetition: 29/11/2023, 12-13, Small Computer Hall, 2nd repetition: 15/12/2023, 12-13 Small Computer Hall).
Final exams (dates)	13/12/2023, 1/2/2024, 15/2/2024 and supplemental examination terms that will be published in February 2024 for the summer semester
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

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>

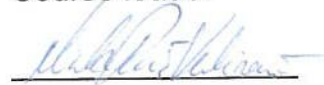
OBJECTIVES AND LEARNING OUTCOMES

Course objectives	<p>Following successful completion of the course, students will be able to apply acquired knowledge on gross anatomy and development of the head and neck of domestic mammals and basic gross anatomy of domestic birds during preclinical and clinical courses.</p>
Learning outcomes	<p>Following successful completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. list and describe major anatomical structures of the head and neck of domestic mammals and basic gross anatomy of domestic birds 2. explain the development of the structures of the head and neck 3. apply anatomical nomenclature 4. skilled communicate anatomical information 5. 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



Head of organizational unit:



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