

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
Tel. 01/ 2390243
Division: Basic and Pre-clinical Sciences Division
Department / Clinic: Department of Anatomy, Histology and Embryology
Email: martina.duras@vef.hr
Register no.:
File no.:
Zagreb, 30/8/2018

COURSE SYLLABUS

Course name: Anatomy with Organogenesis of Domestic Animals III

Academic year 2018-19

Course leader: Assoc. Prof. Martina Đuras

Teachers: Prof. Tajana Trbojević Vukičević

Associate teachers: Mirela Pavić, PhD, DVM

First day of classes: 1/10/2018

Last day of classes: 22/11/2018

Timetable for LECTURES academic year 2018-2019

LECTURES				
Date	Methodological unit	Teacher	Location / time	Literature
1/10/2018	Head skeleton and cervical spine	Prof. Tajana Trbojević Vukičević	Department of Physics & Biophysics/ 8-10	<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>McGEADY, T. A., P. J. QUINN, E. S. FITZPATRICK, M. T. RYAN (2006): Veterinary embryology. Blackwell Publishing, Dublin.</p>
9/10/2018	Muscles of head and neck	Assoc. Prof. Martina Đuras	Department of Forensic & Judicial Veterinary Medicine/ 12-13	
15/10/2018	Blood vessels, lymphatic system and endocrine tissues of head and neck	Assoc. Prof. Martina Đuras	Department of Forensic & Judicial Veterinary Medicine/ 9-10	
30/10/2018	Mouth, salivary glands, pharynx and esophagus: structure and development	Prof. Tajana Trbojević Vukičević	Department of Physiology and Radiobiology/ 8-10	
5/11/2018	Upper respiratory tract, larynx and trachea: structure and development	Assoc. Prof. Martina Đuras	Amphitheatre/ 15-17	
7/11/2018	Brain and spinal cord: structure and development	Prof. Tajana Trbojević Vukičević	Department of Physiology and Radiobiology/ 12-14	
13/11/2018	Cranial nerves	Prof. Tajana Trbojević Vukičević	Department of Physiology and Radiobiology/ 11-12	
13/11/2018	Eye: structure and development	Mirela Pavić, PhD, DVM	Department of Physiology and Radiobiology/ 12-13	
15/11/2018	Vestibulocochlear organ: structure and development	Mirela Pavić, PhD, DVM	Department of Physics & Biophysics/ 13-14	
20/11/2018	Basic gross anatomy of domestic birds	Assoc. Prof. Martina Đuras	Amphitheatre/ 10-12	

Timetable for PRACTICALS academic year 2018-2019

Department of Anatomy, Histology and Embryology=DAHE

PRACTICALS						
Date	Methodological unit	Teacher	Type of practicals	Group	Location / time	Literature
2/10/2018	Cervical vertebrae. Skeleton of the head (I)	Prof. Tajana Trbojević Vukičević	Dissection	1	Dissection Hall, DAHE/16-19	KÖNIG, H. E., H.-G. LIEBICH (2007): Veterinary anatomy of domestic mammals, Textbook and color atlas. 3 rd Ed. Schattauer, Stuttgart, New York
3/10/2018	Skeleton of the head (II)	Prof. Tajana Trbojević Vukičević	Dissection	1	Dissection Hall, DAHE/14-17	
4/10/2018	Skeleton of the head (III)	Prof. Tajana Trbojević Vukičević	Dissection	1	Dissection Hall, DAHE/14-17	
5/10/2018	Skeleton of the head (IV)	Prof. Tajana Trbojević Vukičević	Dissection	1	Dissection Hall, DAHE/12-15	
10/10/2018	Regions, fasciae and skin muscles of head and neck	Prof. Tajana Trbojević Vukičević	Dissection	1	Dissection Hall, DAHE/14-17	DYCE, K. M., W. O. SACK, C. J. G. WENSING (2010): Textbook of veterinary anatomy. 4 th Ed. Saunders Elsevier, Philadelphia.
11/10/2018	Muscles of head	Assoc. Prof. Martina Đuras	Dissection	1	Dissection Hall, DAHE/13-16	
17/10/2018	Facial regions (I)	Assoc. Prof. Martina Đuras	Dissection	1	Dissection Hall, DAHE/14-17	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.
18/10/2018	Facial regions (II)	Assoc. Prof. Martina Đuras	Dissection	1	Dissection Hall, DAHE/14-16	
19/10/2018	Muscles of neck and nuchal ligament (I)	Assoc. Prof. Martina Đuras	Dissection	1	Dissection Hall, DAHE/8-10	
23/10/2018	Muscles of neck and nuchal ligament (II)	Assoc. Prof. Martina Đuras	Dissection	1	Dissection Hall, DAHE/10-12	EVANS, H. E., A. de LAHUNTA (2010): Guide to the
25/10/2018	Ventral neck	Assoc. Prof. Martina Đuras	Dissection	1	Dissection Hall, DAHE/13-16	
26/10/2018	Temporomandibular joint, deep structures of facial regions	Prof. Tajana Trbojević Vukičević	Dissection	1	Dissection Hall, DAHE/11-14	
29/10/2018	External carotid artery, lymph nodes of head and neck	Assoc. Prof. Martina Đuras	Dissection	1	Dissection Hall, DAHE/12-15	

31/10/2018	Mouth and oral cavity	Mirela Pavić, PhD, DVM	Dissection	1	Dissection Hall, DAHE/10-13	dissection of the dog. 7 th Ed. Saunders Elsevier. Philadelphia.
6/11/2018	Pharynx	Mirela Pavić, PhD, DVM	Dissection	1	Dissection Hall, DAHE/15-18	
7/11/2018	External nose, nasal cavity	Mirela Pavić, PhD, DVM	Dissection	1	Dissection Hall, DAHE/15-17	
8/11/2018	Paranasal cavities, larynx	Mirela Pavić, PhD, DVM	Dissection	1	Dissection Hall, DAHE/14-17	
12/11/2018	Brain	Mirela Pavić, PhD, DVM	Dissection	1	Dissection Hall, DAHE/14-17	
14/11/2018	Cranial nerves	Mirela Pavić, PhD, DVM	Dissection	1	Dissection Hall, DAHE/8-11	
16/11/2018	Eye	Mirela Pavić, PhD, DVM	Dissection	1	Dissection Hall, DAHE/8-11	
19/11/2018	Vestibulocochlear organ	Mirela Pavić, PhD, DVM	Dissection	1	Dissection Hall, DAHE/14-17	
22/11/2018	Basic gross anatomy of domestic birds	Prof. Tajana Trbojević Vukičević	Dissection	1	Dissection Hall, DAHE/ 8-12	

STUDENT OBLIGATIONS

Lecture attendance	The course has 15 hours of lectures. One hour of lecture (45 minutes) is equal to 0.4 points. 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. One hour of practicals (45 minutes) is equal to 0.19 points. Practicals attendance is graded with 12 points in total. The student has to attend at least 43 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. Given the above, the student must acquire a minimum number of points from all assessment elements in order to take the final exam. Article 45: 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 test is a pre-condition for taking the oral exam.
Final exams (dates)	8/11/2018, 10/12/2018, 21/1/2019, 1/2/2019, 15/2/2019
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	The course presents the gross anatomy of domestic animals with 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 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.

GRADING SCHEME

<i>Points</i>	<i>Grade</i>
Up to 59	1 (F)
60-68	2 (E)
69-76	2 (D)
77-84	3 (C)
85-92	4 (B)
93-100	5 (A)

Course leader:

 Assoc. Prof. Martina Đuras

Head of Department/Clinic:

 Assoc. Prof. Martina Đuras

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

**GRADING AND EVALUATION OF STUDENT WORK ON COURSES WITH LECTURES,
SEMINARS and PRACTICALS**

Type of activity	Minimum number of points	Maximum number of points
Lectures attendance	3	6
Seminar attendance	4	6
Practicals attendance	4	6
Active participation in seminars and practicals	5	10
Continuous knowledge checking (mid-terms)	20	32
Final exam	24	40
TOTAL	60	100

**GRADING AND EVALUATION OF STUDENT WORK ON COURSES WITH LECTURES and
SEMINARS**

Type of activity	Minimum number of points	Maximum number of points
Lecture attendance	3	6
Practicals attendance	8	12
Active participation in practicals	5	10
Continuous knowledge checking (mid-terms)	20	32
Final exam	24	40
TOTAL	60	100

**GRADING AND EVALUATION OF STUDENT WORK ON COURSES WITH SEMINARS and
EXERCISES**

Type of activity	Minimum number of points	Maximum number of points
Seminar / practicals attendance	11	18
Active participation in seminars and practicals	5	10
Continuous knowledge checking (mid-terms)	20	32
Final exam	24	40
TOTAL	60	100