

2018-2019

Anatomy with Organogenesis of Domestic Animals II

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
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Register no.:
File no.:
Zagreb, 8/2/2019



80873	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	08.02.2019	
Klasifikacijska oznaka	Org. jed.	
602-04/19-23/27	251-61-32;	
Urudžbeni broj	Prilozi	Vrijednost
251-61-05-19-11	0	-

COURSE SYLLABUS

Course name: Anatomy with Organogenesis of Domestic Animals II

Academic year 2018-19

Course leader: Assoc. Prof. Martina Đuras

Teachers: Full Prof. Tajana Trbojević Vukičević

Associate teachers: Mirela Pavić, PhD, DVM, Lucija Bastiančić, DVM, Denis Leiner, DVM, Kim Korpes, DVM

First day of classes: 25/2/2019

Last day of classes: 7/6/2019

Timetable for LECTURES academic year 2018-2019

LECTURES				
Date	Methodological unit	Teacher	Location / time	Literature
25/2/2019	Structure and development of the trunk skeleton	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 9-10	<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>
4/3/2019	Structure and development of the mammary gland	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 16-17	
6/3/2019	Body wall, body cavities and their serous lining	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 8-10	
22/3/2019	Structure and development of the trachea and lungs	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 10-11	
26/3/2019	Autonomic nervous system of the trunk	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 14-15	
	Lymphatic system and endocrine tissue of the trunk		Amphitheatre/ 15-16	
4/4/2019	Structure and development of the heart	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 8-10	
5/4/2019	Blood vessels of the trunk	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 8-9	
29/4/2019	Structure and development of the digestive system (Part I)	Assoc. Prof. Martina Đuras	Amphitheatre/ 14-16	
30/4/2019	Structure and development of the digestive system (Part II)	Assoc. Prof. Martina Đuras	Amphitheatre/ 8-10	
15/5/2019	Structure and development of the urinary system	Assoc. Prof. Martina Đuras	Amphitheatre/ 10-12	
22/5/2019	Structure and development of the male genital organs	Assoc. Prof. Martina Đuras	Amphitheatre/ 16-18	
29/5/2019	Structure and development of the female genital organs	Assoc. Prof. Martina Đuras	Amphitheatre/ 8-10	

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
26/2/2019	Skeleton of the trunk (Part I)	Full Prof. Tajana Trbojević Vukičević Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	KÖNIG, H. E., H.-G. LIEBICH (2007): Veterinary anatomy of domestic mammals, Textbook and color atlas. 3 rd Ed. Schattauer, Stuttgart, New York
27/2/2019	Skeleton of the trunk (Part II)	Full Prof. Tajana Trbojević Vukičević Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11	
1/3/2019	Skeleton of the trunk (Part III)	Full Prof. Tajana Trbojević Vukičević Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	
5/3/2019	Regions of the trunk and mammary gland	Full Prof. Tajana Trbojević Vukičević Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11	DYCE, K. M., W. O. SACK, C. J. G. WENSING (2010): Textbook of veterinary anatomy. 4 th Ed. Saunders Elsevier, Philadelphia.
11/3/2019	Muscles of the thorax (Part I)	Full Prof. Tajana Trbojević Vukičević Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	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.
13/3/2019	Muscles of the thorax (Part II)	Full Prof. Tajana Trbojević Vukičević Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
14/3/2019	Muscles of the thorax (Part III)	Full Prof. Tajana Trbojević Vukičević Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	
18/3/2019	Thoracic wall (Part I)	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	EVANS, H. E., A. de LAHUNTA (2010):
19/3/2019	Thoracic wall (Part II)	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
20/3/2019	Thoracic and pectoral cavities, pleurae and pleural cavities (Part I)	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/16-18	
25/3/2019	Thoracic and pectoral cavities, pleurae and pleural cavities (Part II)	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/14:30-17:30	

27/3/2019	Trachea and lungs (Part I)	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/14-17	Guide to the dissection of the dog, 7 th Ed. Saunders Elsevier. Philadelphia.
29/3/2019	Trachea and lungs (Part II)	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	
1/4/2019	Mediastinum (Part I)	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/14:30-16:30	
2/4/2019	Mediastinum (Part II)	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
5/4/2019	Mediastinum (Part III)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/9-12	
8/4/2019	Aorta and subclavian artery (Part I)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	
9/4/2019	Aorta and subclavian artery (Part II)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	
11/4/2019	Pericardium and heart (Part I)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
15/4/2019	Pericardium and heart (Part II)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/12-14	
16/4/2019	Pericardium and heart (Part III)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/16-19	
17/4/2019	Abdominal wall: muscles, nerves, vessels (Part I)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
18/4/2019 Part II	Abdominal wall: muscles, nerves, vessels (Part II)	Full Prof. Tajana Trbojević Vukičević Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
2/5/2019	Inguinal structures Abdominal and peritoneal cavities	Full Prof. Tajana Trbojević Vukičević Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
3/5/2019	Stomach (Part I)	Full Prof. Tajana Trbojević Vukičević Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11	
6/5/2019	Stomach (Part II)	Full Prof. Tajana Trbojević Vukičević Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/16-18	
7/5/2019	Stomach (Part III)	Full Prof. Tajana Trbojević Vukičević Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	

8/5/2019	Intestine (Part I)	Full Prof. Tajana Trbojević Vukičević Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/16-18
9/5/2019	Intestine (Part II)	Full Prof. Tajana Trbojević Vukičević Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12
13/5/2019	Intestine (Part III)	Full Prof. Tajana Trbojević Vukičević Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10
14/5/2019	Liver (Part I)	Mirela Pavić, PhD, DVM Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10
16/5/2019	Liver (Part II)	Mirela Pavić, PhD, DVM Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/12-14
20/5/2019	Pancreas and spleen	Mirela Pavić, PhD, DVM Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10
21/5/2019	Urinary system (Part I)	Mirela Pavić, PhD, DVM Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/16-19
23/5/2019	Urinary system (Part II)	Mirela Pavić, PhD, DVM Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/12-14
27/5/2019	Female genital organs (Part I)	Mirela Pavić, PhD, DVM Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16
28/5/2019	Female genital organs (Part II)	Mirela Pavić, PhD, DVM Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/12-14
30/5/2019	Male genital organs (Part I)	Mirela Pavić, PhD, DVM Lucija Bastiančić, DVM	Dissection	1,2	Dissection Hall, DAHE/12-14
31/5/2019	Male genital organs (Part II)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10
3/6/2019	Vessels and nerves of the abdominal viscera (Part I)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/12-14
4/6/2019	Vessels and nerves of the abdominal viscera (Part II)	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/14-17
5/6/2019	Pelvic viscera, vessels and nerves	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11
6/6/2019	Muscles of the back	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11
7/6/2019	Spine and spinal cord	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11

STUDENT OBLIGATIONS

Lecture attendance	The course has 20 hours of lectures. Lecture attendance is graded with 6 points in total. The student has to attend at least 10 hours of lectures (3 points). One hour of lecture (45 minutes) is equal to 0.3 points.
Practicals attendance	The course has 100 hours of practicals. Practical session attendance is graded with 12 points in total. The student has to attend at least 70 hours of practicals (8 points). One hour of practicals (45 minutes) is equal to 0.12 points.
Active participation in 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. 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)	Written tests are graded with 32 points in total. There are two written tests and the student has to achieve at least 10 points per test.
Final exams (dates)	19/6/2019, 8/7/2019, 4/9/2019, 18/9/2019
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 <u>physiology, pathology</u> 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:



Asocc. Prof. Martina Đuras

Head of Department/Clinic:



Asocc. 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

