

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: ialic@vef.hr
Register No of the organisational unit: 61-05-2025/289
Zagreb, 1/9/2025



206987	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	04.09.2025	
Klasifikacijska oznaka	Org. jed.	
602-04/25-22/34	251-61-41;251-61-32;	
Uredžbeni broj	Prilozi	Vrijednost
251-61-05/455-25-38	0	-

COURSE SYLLABUS

Course name: Anatomy with Organogenesis of Domestic Animals I
Academic year 2025/2026

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, PhD; teaching assistant Kim Korpes, DVM, PhD; teaching assistant Mirna Mandić, DVM, teaching assistant Ante Plećaš, DVM

First day of classes: 3/11/2025

Last day of classes: 23/1/2026

Activities - Anatomy with Organogenesis of Domestic Animals I (1/7)

Start Dat	Start	End	Subject	Subject	Group	Note	Length	Instructor	Room
03/11/2025	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	p01 Introduction to veterinary anatomy	1E-1, 1E-2		1:30	Alić I.	P_amfiteatar
04/11/2025	10:00	10:45	Anatomy with Organogenesis of Domestic Animals I	p02 General anatomy of the cardiovascular system	1E-1, 1E-2		0:45	Alić I.	P_amfiteatar
04/11/2025	10:45	11:30	Anatomy with Organogenesis of Domestic Animals I	p03 General anatomy of the nervous system	1E-1, 1E-2		0:45	Alić I.	P_amfiteatar
05/11/2025	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	p04 General anatomy of the locomotor apparatus	1E-1, 1E-2		1:30	Trbojević-Vukičević T.	P_kemija
06/11/2025	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	p05 Skeleton and joints of the thoracic limb	1E-1, 1E-2		1:30	Nejedli S.	P_amfiteatar
06/11/2025	11:45	13:15	Anatomy with Organogenesis of Domestic Animals I	v01 Planes of the animal body. Anatomical terminology.	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
07/11/2025	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v02 Scapula and humerus	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat

Activities - Anatomy with Organogenesis of Domestic Animals I (2/7)									
Start Dat	Start	End	Subject	Subject	Group	Note	Length	Instructor	Room
11/11/2025	10:45	12:15	Anatomy with Organogenesis of Domestic Animals I	v03 Skeleton of the forearm	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
12/11/2025	11:45	13:15	Anatomy with Organogenesis of Domestic Animals I	v04 Skeleton of the manus	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
14/11/2025	11:45	13:15	Anatomy with Organogenesis of Domestic Animals I	v05 Joints of the thoracic limb	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
14/11/2025	14:00	14:45	Anatomy with Organogenesis of Domestic Animals I	p06 Muscles of the thoracic limb	1E-1, 1E-2		0:45	Nejedli S.	P_kemija
19/11/2025	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v06 Muscles of the shoulder girdle	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
21/11/2025	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v07 Muscles of the shoulder and scapular region	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
26/11/2025	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	p07 Blood vessels, nerves and lymph nodes of the thoracic limb	1E-1, 1E-2		1:30	Pavić Vulinović M.	P_kemija
26/11/2025	12:00	13:30	Anatomy with Organogenesis of Domestic Animals I	v08 Muscles of the arm	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat

Activities - Anatomy with Organogenesis of Domestic Animals I (3/7)

Start Dat	Start	End	Subject	Subject	Group	Note	Length	Instructor	Room
28/11/2025	13:30	15:00	Anatomy with Organogenesis of Domestic Animals I	v09 Muscles of the craniolateral forearm	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
01/12/2025	13:30	15:00	Anatomy with Organogenesis of Domestic Animals I	v10 Muscles of the caudomedial forearm	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
03/12/2025	13:30	15:00	Anatomy with Organogenesis of Domestic Animals I	v11 Blood vessels and lymph nodes	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
05/12/2025	13:30	15:00	Anatomy with Organogenesis of Domestic Animals I	v12 Nerves of the thoracic limb	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
08/12/2025	13:30	15:00	Anatomy with Organogenesis of Domestic Animals I	v13 Regions of the thoracic limb, scapular region and axilla	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
09/12/2025	8:00	9:30	Anatomy with Organogenesis of Domestic Animals I	v14 Dissection of the arm	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
10/12/2025	13:30	15:00	Anatomy with Organogenesis of Domestic Animals I	v15 Dissection of the forearm	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
11/12/2025	11:45	13:15	Anatomy with Organogenesis of Domestic Animals I	v16 Dissection of the forepaw and joints	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat

Activities - Anatomy with Organogenesis of Domestic Animals I (4/7)									
Start Dat	Start	End	Subject	Subject	Group	Note	Length	Instructor	Room
17/12/2025	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v17 Skeleton of the pelvic girdle	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
17/12/2025	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	p08 Skeleton and joints of the pelvic limb	1E-1, 1E-2		1:30	Nejedli S.	P_amfiteatar
18/12/2025	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v18 Skeleton of the thigh and leg	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
18/12/2025	14:30	15:30	1 ENG	Anatomy with Organogenesis of Domestic Animals I		Kolokvij 1	1:00		R_stočarstvo mala, R_stočarstvo velika
19/12/2025	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v19 Joints of the pelvic limb	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
22/12/2025	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v20 Skeleton of the pes	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
22/12/2025	10:00	10:45	Anatomy with Organogenesis of Domestic Animals I	p09 Muscles of the pelvic limb	1E-1, 1E-2		0:45	Đuras M.	P_amfiteatar
22/12/2025	11:00	12:30	Anatomy with Organogenesis of Domestic Animals I	p10 Blood vessels, nerves and lymph nodes of the pelvic limb	1E-1, 1E-2		1:30	Pavić Vulinović M.	P_amfiteatar

Activities - Anatomy with Organogenesis of Domestic Animals I (5/7)									
Start Dat	Start	End	Subject	Subject	Group	Note	Length	Instructor	Room
07/01/2026	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v21 Muscles of the pelvic girdle and croup	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
08/01/2026	11:45	13:15	Anatomy with Organogenesis of Domestic Animals I	v22 Muscles of the thigh	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
09/01/2026	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	v23 Muscles of the craniolateral leg	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
12/01/2026	13:30	15:00	Anatomy with Organogenesis of Domestic Animals I	v24 Muscles of the caudal leg	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
13/01/2026	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	v25 Blood vessels and lymph nodes	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
14/01/2026	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v26 Nerves of the pelvic limb	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
15/01/2026	13:30	15:00	Anatomy with Organogenesis of Domestic Animals I	v27 Regions of the pelvic limb, pelvic girdle and croup	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
19/01/2026	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	v28 Dissection of the thigh	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat

Activities - Anatomy with Organogenesis of Domestic Animals I (6/7)									
Start Dat	Start	End	Subject	Subject	Group	Note	Length	Instructor	Room
20/01/2026	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	v29 Dissection of the leg	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
21/01/2026	8:15	9:45	Anatomy with Organogenesis of Domestic Animals I	v30 Dissection of the hindpaw and joints	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
21/01/2026	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	p11 Digital organ	1E-1, 1E-2		1:30	Đuras M.	P_amfiteatar
22/01/2026	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	v31 Hoof	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
23/01/2026	10:00	11:30	Anatomy with Organogenesis of Domestic Animals I	v32 Dissection of the hoof	1E-1, 1E-2		1:30	Nastavnici na predmetu	S_anatomija I kat
23/01/2026	15:00	16:00	1 ENG	Anatomy with Organogenesis of Domestic Animals I		Written test 2	1:00	Alić I.	R_stočarstvo mala, R_stočarstvo velika
28/01/2026	8:15	9:15	1 ENG	Anatomy with Organogenesis of Domestic Animals I		Ponavljjanje kolokvija 1 i 2	1:00	Alić I.	R_stočarstvo mala, R_stočarstvo velika
03/02/2026	10:30	11:30	1 ENG	Anatomy with Organogenesis of Domestic Animals I		Kolokvij - ponavljanje	1:00		R_stočarstvo mala

Activities - Anatomy with Organogenesis of Domestic Animals I (7/7)

Start Dat	Start	End	Subject	Subject	Group	Note	Length	Instructor	Room
Total: 47							65:30		

Timetable for LECTURES academic year 2025/2026

STUDENT OBLIGATIONS

Lecture attendance	The course has 18 hours of lectures. Lecture attendance is graded with 6 points in total. The student has to attend at least 9 hours of lectures and achieve at least 3 points.
Seminars attendance	NA
Practicals attendance	The course has 64 hours of practicals. Practical attendance is graded with 12 points in total. The student has to attend at least 51 hours of practicals and achieve at least 8 points.
Active participation in seminars and 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 (2024). Given the above, the student must acquire a minimum number of points from all assessment elements in order to take the final exam. Regulations On Intergraduate And Graduate Studies, 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)	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 18/12/2025, 2:30-3:30pm, in the Large Computer Hall (1st repetition: 28/01/2026, 8:15-9:15am, Large Computer Hall; 2nd repetition: 03/02/2026, 10:30-11:30am, Large Computer Hall). Written test II will be held on 23/01/2026, 3:00-4:00pm, in the Large Computer Hall (1st repetition: 28/01/2026, 8:15-9:15am, Large Computer Hall; 2nd repetition: 03/02/2026, 10:30-11:30am, Large Computer Hall).
Final exams (dates)	04/02/2026 and 18/02/2026. Additional examination terms that will be published in February 2026 for the summer semester.
Form of final exam	Oral exam.

LITERATURE

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

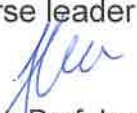
OBJECTIVES AND LEARNING OUTCOMES

Course objectives	Following successful completion of the course, students will be able to apply acquired knowledge on gross anatomy and development of the thoracic and pelvic limbs of domestic mammals during preclinical and clinical courses.
Learning outcomes	After completing the course and passing the final exam, the student will be able to: 1) To describe and interpret the structure of the anatomical structures of the thoracic and pelvic limbs as a basis for clinical and public health assessment. 2) To recognize differences in the anatomical structures of the thoracic and pelvic limbs in different species of domestic mammals as a basis for clinical and public health assessment. 3) To distinguish the usual anatomical structure of the thoracic and pelvic limbs in order to recognize pathological changes. 4) To explain the principles of embryonal development of the thoracic and pelvic limbs to understand and assess congenital malformations. 5) To explain the mutual topographical and functional relationships of anatomical structures in the thoracic and pelvic limbs as a basis for clinical application.

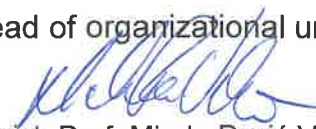
GRADING SCHEME

<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:


Assist. Prof. Mirela Pavić Vulinović

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