



Course syllabus - part A Animal anatomy I

04SJO-AA1
ECTS: 9.00
CYCLE: 2024Z

SUBJECT MATTER CONTENT

LECTURE

General skeletal structure and interspecies differences; general syndesmology and selected issues regarding bone connections; structure of the central nervous system; spinal nerve and autonomic nervous system; selected issues related to the trunk muscles (inguinal canal, rectus abdominis sheath); innervation and vascularization of the thoracic and pelvic limb; structure of the hoof, stay apparatus of the horse limbs.

AUDITORIUM CLASSES

Theoretical knowledge is delivered during lecture-based classes. For three-dimensional imaging of the described structures, specialized 3D anatomical software is used. Certain theoretical issues enabling understanding the specific anatomical structures (such as the rectus abdominis sheath) are presented in the form of richly illustrated presentations.

PRACTICAL CLASSES

The dissecting rooms are equipped with a modern audio-visual system enabling the observation of anatomical dissections on monitors and multimedia boards, which additionally allow for the application of colorful graphics to the presented images - which significantly facilitates the illustration of anatomical issues. The classes use natural anatomical specimens prepared with various methods (bones, joints, plastinates), as well as appropriately preserved animal preparations (so-called wet preparations).

TEACHING OBJECTIVE

The aim of the education is to familiarize students with the structure of the skeleton, muscles, connections and nervous systems in animals.

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

Symbols for outcomes related to the discipline:

R/WA_P7S+++

Symbols for outcomes related to the field of study:

A.U1.+ , K.1.+ , A.W1. +

LEARNING OUTCOMES:
Knowledge:

Legal acts specifying learning outcomes:
682/2020

Disciplines: Veterinary science

Status of the

course:Obligatoryjny

Group of courses:A - przedmioty podstawowe

Code: ISCED 0841

Field of study:Veterinary Medicine

Scope of education:

Profile of education:

General academic

Form of studies: full-time

Level of studies: uniform master's studies

Year/semester: 1/1

Types of classes: Lecture, Auditorium classes, Practical classes

Number of hours in semester:Lecture: 45.00, Auditorium classes: 40.00, Practical classes: 20.00

Language of instruction:English

Introductory subject:

Animal Anatomy is a basic subject with which students are introduced from the first semester of the study program. Some introductory aspects may be presented in high school biology classes.

Prerequisites: Animal anatomy is a basic subject that students become familiar with from the first semester of their studies. Some introductory aspects may be presented in high school biology classes.

Name of the organisational unit conducting the course:Katedra Anatomii Zwierząt

Person responsible for the realization of the course:dr hab. wet. Michał Załęcki, prof. UWM

e-mail: michal.zalecki@uwm.edu.pl

Additional remarks:

W1 - The student acquired knowledge of the structure, function and operation of the certain elements of the nervous system (spinal nerve, autonomic nerve centres) and the musculoskeletal system (bones, muscles with their innervation and blood supply; joints and other types of connections).

Skills:

U1 - The student knows and uses English and Latina anatomical nominative terms. Recognizes bone types and their species of origin. Understands and knows the attachments and functions of individual muscles, including their innervation and vascularization. Knows and understands the mechanics of individual joints and, in horse, hooves and stay apparatus . Knows the structure and function of the selected elements of the nervous system (spinal nerve, autonomic nervous system).

Social competence:

K1 - The student is aware of the importance of knowledge of issues in the field of anatomy for a veterinarian and for further study of issues in the field of both, basic and clinical sciences. Follows ethical principles.

TEACHING FORMS AND METHODS:

Lecture(W1;U1;K1;):Lectures are based on the presentations conducted by highly specialized teachers. The following forms of didactic materials are used: richly illustrated presentations (containing photos of specimens owned by the Department), animations, specialized 3D graphic programs showing the three-dimensional anatomy of various animal species, ready to use anatomical specimens (plastinates).

Auditorium classes(W1;U1;K1;):Theoretical and practical knowledge is delivered through presentations conducted by highly qualified and experienced anatomy instructors. For three-dimensional visualization of the described structures, specialized 3D software is used to present detailed anatomical features of various animals. Certain theoretical topics, which facilitate the understanding of the specific structure of anatomical formations (such as the rectus sheath), are presented through richly illustrated presentations.

Practical classes(W1;U1;K1;):The classes utilize natural anatomical specimens prepared using various methods (bones, joints, plastinates), as well as appropriately preserved animal specimens (so-called "wet specimens") on which dissections are performed. The dissection rooms are equipped with a modern audio-visual system that allows the observation of anatomical dissections on monitors and multimedia boards. These boards additionally enable the overlaying of colorful graphics on the displayed images, significantly facilitating the visualization of anatomical concepts.

FORM AND CONDITIONS OF VERIFYING LEARNING

OUTCOMES:

Lecture (Colloquium test) - Knowledge of the lectures content is verified during partial exams conducted during the semester and finally during the final Animal Anatomy exam consisting of two parts: written and practical. The exam takes place after the second semester. -

Auditorium classes (Colloquium test) - Colloquium - There are three colloquiums during the semester, combined with a practical part. The test grade is awarded based on the arithmetic mean value of the grades obtained for individual questions. A student may retake the test twice. The condition for receiving a final pass for the classes is to obtain positive grades for all tests held during the classes. If all tests are passed, the final grade for the exercises is given based on the arithmetic mean value of all grades obtained in tests. Failure to pass any of the tests is tantamount to receiving an insufficient final grade in the exercises. In the event of immediate suspension of on-site classes and the need to teach remotely, the methods of verifying the achievement of learning outcomes declared in the syllabus, i.e. the

forms of passing exams and exercises, may change in a manner appropriate to the situation. (K1, U1, W1). -

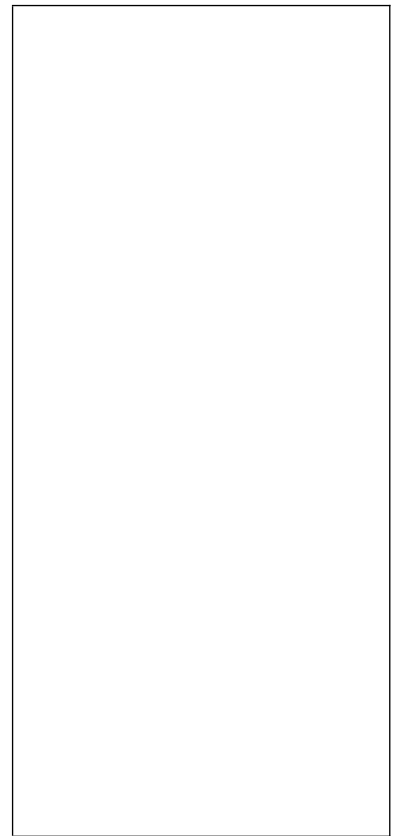
Practical classes (Colloquium practical) - Colloquium - There are three colloquiums during the semester, combined with a practical part. The test grade is awarded based on the arithmetic mean value of the grades obtained for individual questions. A student may retake the test twice. The condition for receiving a final pass for the classes is to obtain positive grades for all tests held during the classes. If all tests are passed, the final grade for the exercises is given based on the arithmetic mean value of all grades obtained in tests. Failure to pass any of the tests is tantamount to receiving an insufficient final grade in the exercises. In the event of immediate suspension of on-site classes and the need to teach remotely, the methods of verifying the achievement of learning outcomes declared in the syllabus, i.e. the forms of passing exams and exercises, may change in a manner appropriate to the situation. (K1, U1, W1). -

BASIC LITERATURE:

1. König, Liebich, *Veterinary Anatomy of Domestic Mammals - Textbook and Colour Atlas*, Tom 1, Wyd. Schattauer Studdgart New York, R. 2020

SUPPLEMENTARY LITERATURE:

1. John W. Hermanson Alexander de Lahunta, *Miller's Anatomy of the Dog*, Tom 1, Wyd. Elsevier, R. 2019



Detailed description of ECTS credits awarded - part B

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Animal anatomy I

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Lecture	45.0 h
- participation in: Auditorium classes	40.0 h
- participation in: Practical classes	20.0 h
- consultation	2.0
Total: 107.0 h.	

2. Independent work of a student:

Self-education for practical classes.	73.00 h
Self-study for partial exams based on other materials.	30.00 h
Self-study for partial exams based on materials presented under the lectures and classes.	60.00 h

Total: 163.0 h

contact hours + independent work of a student Total: 270.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 270.0 h : 30.0 h/ECTS = 9.00 ECTS on average: 9.0 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher: 0,00 ECTS points,

- including the number of ECTS credits for hours of independent work of a student: