

**ELECTIVE COURSES**

From

September 2023 students need to collect (out of the 30 ECTS altogether that needs to be collected from elective and optional courses by the end of the 10th semester, prior entering the 11th practical semester - ) minimum 18 ECTS credits from B-type electives! (i.e 60% of the elective credits need to be collected from B-type electives, the others i.e max 40% can be collected from C-type).

The current elective course list is sent to students at the beginning of each semester from the Students' Secretariat. Prerequisite subjects of the elective courses (if there is any) can be found in Neptun or contact the Students' Secretariat as well!

**(This rule is NOT relevant for the 11th semester and 5th year students of the Academic year 2023/24!)**

Name of elective subject	Which department?	lectures + practicals	Type	Credits
A holistic and integrated approach to animal life and security	Department of Veterinary Forensics, Law and Economics	15 L	C	2
Advanced veterinary anaesthesia	Department and Clinic of Equine Medicine	12 L + 3 Pr	B	2
An introduction to Python programming	Centre for Bioinformatics	15 Pr	C	2
Anaesthesia in exotic animal practice	Department of Exotic Animal and Wildlife Medicine	14 L + 1 Pr	B	2
Anatomical background for clinical cases	Department of Anatomy and Histology	5 L + 10 Pr	B	2
Anatomy and physiology of exotic animals	Department of Exotic Animal and Wildlife Medicine	20 L + 6 Pr	B	2
Anatomy and physiology of fish	Department of Exotic Animal and Wildlife Medicine	15 L	B	2
Anatomy of domestic birds	Department of Anatomy and Histology	15 L	B	2
Animal paleophysiology	Department of Physiology and Biochemistry	26 L	C	2
Animal welfare I.	Department of Veterinary Forensics, Law and Economics	15 L	B	2
Animal welfare II.	Center for Animal Welfare	15 L	C	2
Animal welfare of farm animals	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	B	2
Application possibilities of data-analys in the field of food safety	Digital Food Chain Education, Research, Development and Innovation Institute	15 L	B	2
Applied clinicopathological diagnostics	Department of Clinical Pathology and Oncology	21 L + 9 Pr	B	2
Aquaculture hygiene	Department of Exotic Animal and Wildlife Medicine	18 L	B	2
Arthropod vectors	Department of Parasitology and Zoology	15 L	B	2
Assisted reproduction techniques	Department of Obstetrics and Farm Animal Medicine Clinic	15 L	B	2
Atomspectroscopic methods in the determination of soil, water, fodder, biological samples	Department of Animal Hygiene, Herd Health and Mobile clinic	15 L	B	2
Basic Hungarian	Department of Foreign Languages	26 Pr	C	2
Basic neuroradiology	Department and Clinic of Surgery and Ophthalmology	2 L + 13 Pr	B	2
Basics of communication	Department of Veterinary Forensics, Law and Economics	5 L + 10 Pr	C	2
Basics of natural science	Department of Chemistry	15 L	C	2
Bioacoustics	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	24 L	C	2
Biology and medicine of amphibians and reptiles	Department of Exotic Animal and Wildlife Medicine	25 L	B	2

Breeding and nutrition of fur bred animals	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	B	2
Carcinogenic and anticarcinogenic plants	Department of Botany	15 L	C	2
Circular economy approach in large-scale farms	Department of Veterinary Forensics, Law and Economics	15 L	C	2
Clinical endocrinology	Department of Obstetrics and Farm Animal Medicine Clinic	15 L	B	2
Clinical Hungarian I.	Department of Foreign Languages	26 Pr	B	2
Clinical Hungarian II.	Department of Foreign Languages	26 Pr	B	2
Clinical physiology	Department of Physiology and Biochemistry	15 L	C	2
Companion animal dietetics	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	21 L + 9 Pr	B	2
Comparative forensic veterinary medicine	Department of Veterinary Forensics, Law and Economics	15 L	B	2
Complexity in veterinary medicine: veterinary public health	Digital Food Chain Education, Research, Development and Innovation Institute	15 L	B	2
Data analysis practical	Department of Biomathematics and Informatics	15 Pr	C	2
Dermatology of dogs and cats	Department and Clinic of Internal Medicine	20 L	B	2
Development of the organs	Department of Anatomy and Histology	15 L	B	2
Diagnostic ultrasound in equine medicine	Department and Clinic of Equine Medicine	8 L + 8 Pr	B	2
Digitalization in veterinary practices	Department of Veterinary Forensics, Law and Economics	15 L	C	2
Dog and cat breeding	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	C	2
Drug innovation: Research and development process of drugs in human and veterinary medicine	Department of Pharmacology and Toxicology	15 L	C	2
Drug preparation	Department of Pharmacology and Toxicology	2 L + 13 Pr	C	2
Edible wild plants	Department of Botany	15 L	C	2
Environmental physiology	Department of Physiology and Biochemistry	15 L	C	2
Equine dietetics	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	B	2
Equine exercise physiology and sports medicine	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	12 L + 3 Pr	B	2
Equine ophthalmology	Department and Clinic of Equine Medicine	7 L + 8 Pr	B	2
Exercise and sport pharmacology	Department of Pharmacology and Toxicology	16 L	C	2
Exotic Mammal Medicine	Department of Exotic Animal and Wildlife Medicine	25 L	B	2
Feeding exotic reptiles, birds, and small mammals	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	C	2
Food hygiene of catering sector and mass caterers	Department of Food Hygiene	8 L + 7 Pr	B	2
Forensic animal genetics	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	C	2
Fundamentals of scientific writing	Hutýra Ferenc Library	10 Pr	C	2
Gene technology	Department of Physiology and Biochemistry	15 L	B	2
General and specific limnology	Department of Exotic Animal and Wildlife Medicine	15 L	C	2

General mycology	Department of Botany	30 L	B	2
German for beginners 1.	Department of Foreign Languages	16 Pr	C	2
German for beginners 2.	Department of Foreign Languages	26 Pr	C	2
Health care of pet rabbits	Department of Exotic Animal and Wildlife Medicine	12 L	B	2
History of veterinary medicine	Department of Pathology	15 L	C	2
Horse breeding	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	B	2
Hot topics of human nutrition	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	C	2
Human medical microbiology and infectology	Department of Microbiology and Infectious Diseases	15 L	C	2
Hungarian A1/1	Department of Foreign Languages	60 Pr	B	3
Hungarian A1/2	Department of Foreign Languages	60 Pr	B	3
Hungarian A2/1	Department of Foreign Languages	52 Pr	B	3
Hungarian A2/2	Department of Foreign Languages	52 Pr	B	3
Hungarian history and culture	Department of Foreign Languages	15 L	C	2
Incubation of poultry eggs	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	B	2
Infectious diseases of dog and cat	Department of Microbiology and Infectious Diseases	15 L	B	2
Insects as food and feed	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	C	2
Introduction to bioinorganic chemistry	Department of Animal Hygiene, Herd Health and Mobile clinic	15 L	B	2
Introduction to GIS (Geoinformatics)	Department of Biomathematics and Informatics	15 Pr	C	2
Laboratory diagnostics of infectious diseases	Department of Microbiology and Infectious Diseases	15 Pr	B	2
Learning techniques & strategies in medical school	Department of Physiology and Biochemistry	10 L + 2 Pr	C	2
Library informatics	Hutýra Ferenc Library	10 Pr	C	2
Life skills for vets	Department of Veterinary Forensics, Law and Economics	9 L + 6 Pr	C	2
Management of zoological institutions keeping wild animals in human care	Department of Exotic Animal and Wildlife Medicine	13 L + 2 Pr	C	2
Meat substitutes and alternative proteins in food chain safety	Department of Food Hygiene	8 L + 7 Pr	B	2
Medical Latin	Department of Foreign Languages	30 Pr	B	2
Medical profession & empathy	Department of Physiology and Biochemistry	11 L + 4 Pr	C	2
Medicinal plants	Department of Botany	24 L	B	2
Modern materials in life sciences	Department of Chemistry	24 L	C	2
Molecular physiology of the cell (e-learning)	Department of Physiology and Biochemistry	15 L	B	2
Molecular tumour biology	Department of Physiology and Biochemistry	15 L	B	2
New forms and technics of knowledge transfer - practical approach	Department of Pathology	9 L + 6 Pr	C	2
Nursing practice 1-4	Experimental farm, Üllő	40 Pr	B	2

Operation techniques - cadaver / soft tissues	Department of Anatomy and Histology	5 L + 10 Pr	B	2
Operation techniques - cadaver - Bone surgery	Department of Anatomy and Histology	15 Pr	B	2
Organic animal production	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	15 L	B	2
Parasitic zoonoses	Department of Parasitology and Zoology	15 L	B	2
Pathobiochemistry	Department of Physiology and Biochemistry	15 L	B	2
Periparturient predisposing factors in cattle	Department of Obstetrics and Farm Animal Medicine Clinic	15 L	B	2
Petfish diseases	Department of Exotic Animal and Wildlife Medicine	15 L	B	2
Pharmacotherapy	Department of Pharmacology and Toxicology	15 L	B	2
(Physiological) Basics of communication	Department of Physiology and Biochemistry	8 L + 7 Pr	C	2
Physiological basis of cardiology (e-learning)	Department of Physiology and Biochemistry	15 L	B	2
Physiology of learning	Department of Physiology and Biochemistry	15 L	C	2
Physiology of the nervous system	Department of Physiology and Biochemistry	15 L	B	2
Plant secondary metabolites	Department of Botany	15 L	C	2
Poisonous garden and indoor plants	Department of Botany	14 L	C	2
Police dogs and horses; the role of animal protection in crime prevention	Center for Animal Welfare	10 L + 5 Pr	C	2
Practical aspects of serological testing of infectious diseases	Department of Microbiology and Infectious Diseases	5 L + 10 Pr	B	2
Practical beekeeping	Department of Exotic Animal and Wildlife Medicine	7 L + 8 Pr	C	2
Practical innovation	Department of Anatomy and Histology	15 L	C	2
Practical Laboratory Animal Science	Institute of Animal Breeding, Nutrition and Laboratory Animal Science	5 L + 22 Pr	C	2
Practical meat inspection	Department of Food Hygiene	10 L + 5Pr	B	2
Practicals in genomics 1.	Centre for Bioinformatics	3 L + 12 Pr.	B	2
Practicals in genomics 2.	Centre for Bioinformatics	3 L + 12 Pr.	B	2
Precision digital processes in dairy and beef farms	Department of Obstetrics and Farm Animal Medicine Clinic	15 L	B	2
Presentation skills development training	Department of Veterinary Forensics, Law and Economics	15 L	C	2
Problem-based case discussions in equine internal medicine	Department and Clinic of Equine Medicine	15 L	B	2
Problem-oriented approach to small animal internal medicine cases	Department and Clinic of Internal Medicine	15 L	B	2
Protein modulators in the drug therapy	Department of Pharmacology and Toxicology	15 L	C	2
Psychopharmacology: How to treat mental and behavioural disorders	Department of Pharmacology and Toxicology	15 L	C	2
Rabbit- and rodent dentistry	Department of Exotic Animal and Wildlife Medicine	14 L + 1 Pr	C	2
Radiobiology for veterinarians	Department of Physiology and Biochemistry	15 L	B	2
Redox chemistry in biological systems	Department of Anatomy and Histology	15 L	B	2

Reproduction and assisted reproductive techniques in non-domestic species	Department of Obstetrics and Farm Animal Medicine Clinic	15 L	B	2
Risk analysis of food safety	Department of Food Hygiene	26 L	B	2
Risk communication in food chain safety	Department of Food Hygiene	12 L + 3 Pr	B	2
Role of traditional ethnoveterinary knowledge and practices in the 21st century	Centre for Bioinformatics	15 L	C	2
Selected chapters of human anatomy	Department of Anatomy and Histology	15 L	C	2
Self-knowledge and personal development training	Department of Veterinary Forensics, Law and Economics	5 L + 10 Pr	C	2
SH Hungarian A1/1 (compulsory for Stipendium Hungaricum scholars)	Department of Foreign Languages	60 L	A	4
SH Hungarian A1/2 (compulsory for Stipendium Hungaricum scholars)	Department of Foreign Languages	60 L	A	4
Small animal clinical MR imaging	Department and Clinic of Surgery and Ophthalmology	5 L + 10 Pr	B	2
Small animal dentistry and oral surgery	Department and Clinic of Surgery and Ophthalmology	10 L + 5 Pr	B	2
Small animal electrocardiography	Department and Clinic of Internal Medicine	14 L	B	2
Small animal ophthalmology in the practice	Department and Clinic of Surgery and Ophthalmology	15 Pr	B	2
Spanish for beginners 1.	Department of Foreign Languages	26 Pr	C	2
Spanish for beginners 2.	Department of Foreign Languages	26 Pr	C	2
Special operative procedures in soft tissue surgery	Department and Clinic of Surgery and Ophthalmology	15 L	B	2
Stress management in practice	Department of Veterinary Forensics, Law and Economics	15 L	C	2
Student essay of Physiology	Department of Physiology and Biochemistry	15 L	B	2
The botany of distilled drinks	Department of Botany	15 L	C	2
The colic horse	Department and Clinic of Equine Medicine	15 L + 15 Pr	B	2
Ultrasound diagnostics in small animals	Department and Clinic of Internal Medicine	12 L + 2 Pr	B	2
Veterinary companion animal clinical oncology, diagnostics and therapy	Department of Clinical Pathology and Oncology	36 L	B	2
Veterinary comparative pharmacokinetics and drug metabolism	Department of Pharmacology and Toxicology	10 L	C	2
Veterinary neonatology	Department of Obstetrics and Farm Animal Medicine Clinic	15 L	B	2
Veterinary practice leadership training	Department of Veterinary Forensics, Law and Economics	5 L + 10 Pr	C	2
Veterinary vaccinology	Department of Microbiology and Infectious Diseases	12 L + 3 Pr	B	2
Welfare assessment in farm animals - practical approach	Center for Animal Welfare	15 Pr	B	2
Wild animals under human care	Department of Exotic Animal and Wildlife Medicine	13 L + 2 Pr	C	2
Zoo- and wild animals' medicine	Department of Exotic Animal and Wildlife Medicine	15 L	B	2