



Syllabus

Term: 2026/27/1 **Subject name:** Zootaxonomy - lecture **Subject code:** ENBIOB1201

Unit (Unit code) (BIOLOGIA)

Lecturer responsible for the course: Dr. HORVÁTH Győző Ferenc

Requirement: Exam

Classes per week : 3/0/0

Classes per term: 39/0/0

Purpose of education:

Students who successfully complete the course are:

aware of the principles of taxonomy, have knowledge of the terms of the discipline and correctly apply them,
able to recognize and characterize individual taxa, and able to produce presentations and summaries on their own taxonomic subjects

open to finding out more about the disciplines of taxonomy, for which they have suitable knowledge

Contents:



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14. Course outline

Week 1: The Tasks and Methods of Zootaxonomy and Zoosystematics, Fundamentals of Phenetic and Cladistic Taxonomy.

Week 2: The development of species concept, morphological and biological species definition, taxonomic categories, differentiation within species, relationship of species and population.

Week 3: The basics of protozoology; taxonomy, characterization. Pathogenic protozoans

Week 4: Division of animals, main phyla. Presentation of Parazoa and Eumetazoa (Radiata) phyla. Protostomy, Lophotrochozoa strains (without Mollusca).

Week 5: Description of Lophotrochozoa, Mollusca phyla and classes, Ecdysozoa phylums (Gastrotricha - Nematomorpha).

Week 6: Ecdysozoa: Description and characterization of Onychophora, Tardigrada, Arthropoda phyla ontogeny types.

Week 7: Arthropoda II. Trilobita, Chelicerata, Crustacea

Week 8: Arthropoda III. Myriapoda, Hexapoda: Parainsecta

Week 9: Arthropoda IV. Hexapoda: Insecta

Week 10: The main features of the deuterostome and their current distribution, Hemichordata - Cephalochordata.

Week 11: Vertebrata I; Systematics of Agnatha, and Pisces (Chondrognathostomata, Osteognathostomata)

Week 12: Vertebrata II. Origin of Amphibians. Origin of reptiles, classical and phylogenetic systems.

2026. 05. 12.
Week 13: Vertebrata III. System and origin of birds.



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System of examining and valuation:

Attending lectures is highly recommended. Written exam in exam period.

Bibliography:

1. All textbooks are accessible online (e-learning)

Recommended texts, further readings

1. Ashok Verma: Principles of Animal Taxonomy. 2015 Alpha Science
2. Simpson, G.G. 1990: Principles of Animal Taxonomy. Columbia University Press
3. N. R. Scott-Ram: Transformed Cladistics, Taxonomy and Evolution 1990. Cambridge University Press

Bibliography: