

## SYLLABUS

**Name:** *Integrative perspective on the evolution of vertebrates (25-BI-S2-WIPEV-AN)*

**Name in Polish:** *Synteza ewolucji kręgowców*

**Name in English:** *Integrative perspective on the evolution of vertebrates*

### Information on course:

**Course offered by department:** Faculty of Biological Sciences

**Course for department:** Faculty of Biological Sciences

### Default type of course examination report:

Grading

### Language:

English

### Short description:

Prerequisites regarding knowledge, skills, and social competences for the course/module:

Basic knowledge of zoology, evolutionary biology, developmental biology and palaeontology.

Student's own work:

- preparing to classes: 10h
- reading scientific publications: 15h
- preparing for exam: 15h

### Description:

Educational aims:

Characterisation and synthesis of different lines of evidence (palaeontological, morphological, molecular, developmental) in reconstructing the evolutionary history of vertebrates.

Course content:

- major evolutionary transitions seen through the lens of different branches of biology (palaeontology, anatomy, molecular biology, developmental biology),
- synthesis of different types of data in evolutionary studies.

### Bibliography:

Mandatory and recommended reading list:

Selected chapters in:

Benton M.J. 2015. Vertebrate Palaeontology. Wiley-Blackwell, 4th edition.

Kardong K.V. 2012. Vertebrates: Comparative Anatomy, Function, Evolution. McGraw, 6th edition.

Pough F.H., Bemis W.E., McGuire B.A., Janis C.M. 2022. Vertebrate Life. Oxford University Press, 11th edition.

Shubin N. 2009. Your inner fish. Pantheon Books, New York.

Other literature given by the lecturers.

### Learning outcomes:

Intended learning outcomes

Student:

K\_W04

characterises major events in the evolution of vertebrates;

K\_W08

explains connections between different aspects of biology of vertebrates and their evolution;

K\_U07

combines information from multiple sources and different fields of biology;

K\_K04

student is aware of the interdisciplinary nature of the evolutionary biology.

### Assessment methods and assessment criteria:

Assessment methods for the intended learning outcomes:

- written exam,
- continuous assessment of student's work during classes.

Credit requirements for individual components of the course/module:

- Lectures:
- written exam.
- Classes:
- continuous assessment of student's work during classes,
- writing a classes report.

### Course credits in various terms:

#### <without a specific program>

Type of credits	Number	First term	Last term
European Credit Transfer System (ECTS)	2	2024/25-L	