University of Gdańsk

Subject card

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|---|---|---|---|---|---|---|---|
| Subject name and code | Evolution and systematics of chordates, PG_00198089 | | | | | | |
| Field of study | Natural Resources Conservation | | | | | | |
| Date of commencement of studies | October 2026 | | Academic year of realisation of subject | 2026/2027 | | | |
| Education level | Bachelor's studies | | Subject group | Obligatory subject group in the field of study<br>Subject group related to scientific research in the field of study | | | |
| Mode of study | full-time studies | | Mode of delivery | at the university | | | |
| Year of study | 1 | | Language of instruction | Polish | | | |
| Semester of study | 2 | | ECTS credits | 3.0 | | | |
| Learning profile | academic | | Assessment form | exam | | | |
| Conducting unit | Laboratory of Vertebrate Ecology and Ethology -> Department of Vertebrate Ecology and Zoology -> Faculty of Biology -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | prof. dr hab. Dariusz Jakubas | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | Self-study | SUM | |
| | Number of study hours | 30 | | 4.0 | 41.0 | 75 | |
| Subject objectives | 1 To introduce the basic and most important concepts of chordates evolution and systematics.<br>2. to learn and understand the methods used in systematics.<br>3. to review of selected representatives of the different systematic groups of the choradates<br>4. To understand the fundamentals of living organisms and their interrelationships. | | | | | | |

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [OZPL3_U03] The graduate is able to search for and use available sources of biological information, including electronic sources, and critically analyse them | Awareness of the need to critically analyse knowledge, especially that obtained from the Internet | [SU4] test/exam - oral or written |
| [OZPL3_U12] The graduate is able to learn independently in a targeted manner | The ability to seek information independently | [SU4] test/exam - oral or written |
| [OZPL3_W04] The graduate possesses advanced knowledge and understanding of the characteristics, systematics, and evolution of selected groups of organisms, as well as the basic concepts and mechanisms of evolution | Characteristics, origins and main evolutionary trends in chordates. Different concepts of systematic classification (including cladistic concepts). Overview of the different systematic groups of the chordates. | [SW4] test/exam - oral or written |
| [OZPL3_K08] The graduate is ready to systematically update his/her natural knowledge and to apply it in practice | Awareness of changes in the systematics of chordate taxonomy and the need to update one's own knowledge on the subject | [SK4] test/exam - oral or written |
| [OZPL3_W01] The graduate possesses advanced knowledge and understanding of the structural and functional relationships at the cellular, tissue, organ, and body levels. | Basic concepts of chordates anatomy. Structure and evolution of tracts. Aromorphoses and idioadaptations in vertebrate evolution. | [SW4] test/exam - oral or written |

**Subject contents**

Characteristics, origins and main trends in the evolution of chordates. Basic concepts of chordate anatomy. Structure and evolution of systems. Aromorphoses and idioadaptations in vertebrate evolution. Different concepts of systematic classification (including cladistic concepts). Overview of the different systematic groups of chordates.

**Prerequisites and co-requisites**

Basic knowledge of animal histology is required

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| exam test | 51.0% | 100.0% |

**Recommended reading**

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|---|---|
| Basic literature | Błaszak Cz. 2015. Zoologia Tom 3 Część 1 Szkarłupnie - płazy PWN, Warszawa<br><br>Błaszak Cz. 2020. Zoologia Tom 3 Część 3 Ssaki PWN, Warszawa<br><br>Kardong K.V. 1998-2018. Vertebrates. Comparative Anatomy, Function, Evolution. WCB McGaw-Hill Comp. Inc., New York.<br>Szarski H. (red). 1976. Anatomia porównawcza kręgowców. PWN, Warszawa<br>Jasiński A. 1973. Zootomia kręgowców. PWN, Warszawa.<br><br>Grodziński Z. (red). 1967. Zoologia. Przedstrunowce i strunowce. PWN, Warszawa. |
| Supplementary literature | Szarski H. 1982-2023. Historia Zwierząt Kręgowych. PWN. Warszawa. |
| eResources addresses | |

**Example issues/ example questions/ tasks being completed**

what features are common to all chodates
what are the adaptations of birds to flight in the anatomy of different systems
what are the most important stages in the invasion of land by vertebrates
structure of mammalian limbs as an adaptation to different forms of locomotion

**Work placement**

Not applicable

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