University of Gdańsk

Subject card

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| Subject name and code | Habitat science, PG_00146393 | | |
| Field of study | Biology | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | 2026/2027 |
| Education level | undergraduate studies | Subject group | Obligatory subject group in the field of study<br>Optional subject group |
| Mode of study | full-time studies | Mode of delivery | at the university |
| Year of study | 3 | Language of instruction | Polish |
| Semester of study | 6 | ECTS credits | 1.0 |
| Learning profile | academic | Assessment form | |
| Conducting unit | Pracownia Symbioz Roślinnych -> Katedra Taksonomii Roślin i Ochrony Przyrody -> Faculty of Biology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Renata Afranowicz-Cieślak | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 15.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |

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 | 15 | 2.0 | 8.0 | 25 |

**Subject objectives**

Learning the definition of habitat and other basic ecological concepts. Demonstrating cause and effect relationships between the habitat and biocenosis. Defining and characterizing soil as a multifunctional component of terrestrial ecosystems. Acquiring the ability to use various typologies of habitats and their practical application in environmental protection.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [BIOLL3_W05] The graduate knows the rules and describe the mechanisms of life at the population, biocenosis and ecosystem levels and the temporal and spatial determinants of biodiversity | - describes phenomena and processes occurring in the habitat (primarily in the soil) and interactions between soil, climate and vegetation | [SW4] test/exam - oral or written |
| [BIOLL3_W10] The graduate is familiar with the development and current state of knowledge and the latest trends in biology, as well as their relationship with other natural disciplines | - becomes acquainted with the development and current state of knowledge as well as the latest trends in habitat and soil science and indicates their relationship with other natural disciplines | [SW1] oral statement/ conversation/discussion |
| [BIOLL3_K01] The graduate is prepared to evaluate their own knowledge, understand the need for continuous learning and development, and is open to new ideas | - strives to supplement and update his knowledge in the field of habitat science | [SK4] test/exam - oral or written |
| [BIOLL3_U12] The graduates will be able to use Polish and foreign languages specific to biology in a way that is understandable and accessible to both specialists and non-specialists | - prepares written studies of selected research problems in habitat science | [SU4] test/exam - oral or written |

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|---|---|---|
| Subject contents | Definitions of the habitat, its characteristics as an object of research and use. Formation, diversity and properties of terrestrial habitats. Climatic conditions of selected types of ecosystems. Soils as an integral component of land ecosystems. The process of soil formation, their properties, functioning and differentiation. Soil taxonomy, identification and basics of soil testing. Habitat typology and practical application of habitat science in environmental protection. | |
| Prerequisites and co-requisites | | |
| Assessment methods and criteria | Subject passing criteria: written final paper | Passing threshold: 51.0% / Percentage of the final grade: 100.0% |
| Recommended reading | Basic literature | Mocek A. 2014. Soil science. PWN, Warsaw.<br><br>Bednarek R., Dziadowiec H., Pokojska U., Prusinkiewicz Z. 2004. Ecological and soil research. Ed. Scientific PWN, Warsaw.<br><br>Collective work 2004. Habitat basis of forest breeding. Annex to the Forest Husbandry Rules. Development and Implementation Center of the State Forests in Bedoń. |
| | Supplementary literature | Afranowicz-Cieślak R. 2013. Geobotanical characteristics of Żuławy Wiślane. In: Ciecierska H., Hołdyński C. (eds.), Interdisciplinary and applied importance of botanical sciences. Guide to field workshops of the 56th Congress of the Polish Botanical Society, June 24-30, 2013, Olsztyn, pp. 135-143.<br><br>Brożek S., Zwydak M. 2003. Atlas of forest soils in Poland. Information center of the State Forests.<br><br>Tobolski K. 2000. Guide for the determination of peat and lake sediments. Cheese. Vademecum Geobotanicum. Ed. Science. PWN, Warsaw. |
| | eResources addresses | Adresy na platformie eNauczanie: |
| Example issues/ example questions/ tasks being completed | | |
| Work placement | Not applicable | |

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