University of Gdańsk

Subject card

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|---|---|---|---|
| Subject name and code | Habitat science, PG_00079854 | | |
| Field of study | Biology | | |
| Date of commencement of studies | October 2023 | Academic year of realisation of subject | 2025/2026 |
| Education level | Bachelor's studies | 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 | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Julita Minasiewicz | |
| | 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 | 0.0 | 0.0 | 15 |

**Subject objectives**

Understanding the definition of a habitat and other fundamental ecological concepts. Demonstrating cause-and-effect relationships between habitat and biocoenosis. Defining and characterizing soil as a multifunctional component of terrestrial ecosystems. Developing the ability to apply various habitat typologies and their practical use in environmental protection.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| BIOLL3_K01 | The student strives to expand and update their knowledge in the field of habitat science. | [SK4] test/exam - oral or written |
| [BIOLL3_U12] the graduate is able to use Polish and foreign language specific to biology in a way that is understandable and accessible to both specialists and non-specialists | The student demonstrates understanding of selected research problems in habitat science through written responses. | [SU4] 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 | The student becomes familiar with the development and current state of knowledge, as well as the latest trends in habitat science and soil science, and identifies their connections with other natural science disciplines. | [SW1] oral statement/ conversation/discussion |
| [BIOLL3_W05] the graduate knows the rules and describes the mechanisms of life at the population, biocenosis and ecosystem levels and the temporal and spatial determinants of biodiversity | The student describes phenomena and processes occurring within habitats (with particular emphasis on soil), as well as interactions between soil, climate, and vegetation. | [SW4] test/exam - oral or written |

**Subject contents**

Definitions of habitats and their characteristics as subjects of scientific inquiry and land use. Origin, heterogeneity, and properties of terrestrial habitats. Climatic conditions associated with selected ecosystem types. Soils as integral components of terrestrial ecosystems: processes of soil formation, properties, functioning, and variability. Soil classification systems, methods of identification, and fundamental principles of soil analysis. Habitat typology and the practical application of habitat science in environmental protection.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="2"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>written coursework assignment</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Mocek A. 2014. Gleboznawstwo. PWN, Warszawa.<br>Bednarek R., Dziadowiec H., Pokojska U., Prusinkiewicz Z. 2004. Badania ekologiczno-gleboznawcze. Wyd. Naukowe PWN, Warszawa.<br>Opracowanie zbiorowe 2004. Siedliskowe podstawy hodowli lasu. Załącznik do Zasad hodowli lasu. Ośrodek Rozwojowo-Wdrożeniowy Lasów Państwowych w Bedoniu.</td></tr>
<tr><td>Supplementary literature</td><td>Afranowicz-Cieślak R. 2013. Geobotaniczna charakterystyka Żuław Wiślanych. W: Ciecierska H., Hołdyński C. (red.), Interdyscyplinarne i aplikacyjne znaczenie nauk botanicznych. Przewodnik do warsztatów terenowych 56. Zjazdu Polskiego Towarzystwa Botanicznego, 24-30 czerwca 2013, Olsztyn, s. 135-143.<br><br>Brożek S., Zwydak M. 2003. Atlas gleb leśnych Polski. Centrum informacyjne Lasów Państwowych.<br><br>Tobolski K. 2000. Przewodnik do oznaczania torfów i osadów jeziornych. Ser. Vademecum Geobotanicum. Wyd. Nauk. PWN, Warszawa.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2"></td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
</table>

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