

Subject card

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|--|---|--|------------------|-------------------------------------|--|------------|-----|
| Subject name and code | Biological Oceanography - laboratory, PG_00205260 | | | | | | |
| Field of study | Oceanography | | | | | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | | | 2027/2028 | | |
| Education level | Bachelor's studies | Subject group | | | Obligatory subject group in the field of study 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 | 2 | Language of instruction | | | Polish | | |
| Semester of study | 3 | ECTS credits | | | 4.0 | | |
| Learning profile | academic | Assessment form | | | credit | | |
| Conducting unit | Laboratory of Plankton Biology -> Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr Anna Panasiuk | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 0.0 | 45.0 | 0.0 | 0.0 | 45 |
| | 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 | 45 | | 5.0 | | 50.0 | 100 |
| Subject objectives | To familiarize students with the ecological formations of the seas and oceans, their main representatives and adaptations to the environment. | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression | Is able to use current scientific terminology in presenting and discussing problems in the field of biological oceanography. | [SU4] test/exam - oral or written |
| | [OCEANL3-U12] is able to systematically expand and update oceanographic knowledge and enhance professional qualifications | Is able to systematically expand and update knowledge in the field of biological oceanography and improve professional qualifications. | [SU4] test/exam - oral or written |
| | [OCEANL3-U03] is able to process, describe, and present results, and draw conclusions | Is able to plan research and measurements, both in the field and in the laboratory, independently or under the supervision of a research supervisor, using appropriately selected measurement and analytical techniques in the field of biological oceanography, adequate to the research problem posed. | [SU4] test/exam - oral or written |
| | [OCEANL3-U04] is able to independently search for information in Polish and foreign specialist literature, as well as on the Internet and in databases | Is able to use source information in Polish and English, including archival and electronic databases, in the field of biological oceanographic issues, and performs critical analysis and synthesis of information. | [SU4] test/exam - oral or written |
| | [OCEANL3-U11] is able to work individually and collaborate in a team, assuming various roles and performing different tasks | Is able to work individually and collaborate in laboratory and field groups, performing various functions and tasks. | [SU4] test/exam - oral or written |
| [OCEANL3-K06] is willing to use the acquired knowledge in planning and designing professional activities as well as thinking and acting in an entrepreneurial way, also in the field of social activities undertaken | Is ready to comply with the principles of occupational health and safety, take care of the specialist equipment, and is aware of the risks and hazards resulting from the work performed. | [SK4] test/exam - oral or written | |
| Subject contents | Review of basic ecological formations in seas and oceans. Trophic relationships in open and coastal waters. | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Test | 51.0% | 100.0% |
| Recommended reading | Basic literature | Demel K. (1979) <i>Życie morza</i> , Wyd. Morskie, Gdańsk (in Polish) Duxbury A.C., Duxbury A.B., Sverdrup K.A. (2002) <i>Oceany świata</i> , PWN, Warszawa (in Polish) Nybkken J.W., Bartness M. D. (ed) (2005) <i>Marine Biology, an ecological approach</i> , Person Benjamin Cummings Pliński M. (1994) <i>Biologia organizmów morskich</i> . Wydawnictwo UG, Gdańsk (in Polish) Thurman H.V. (1982) <i>Zarys oceanologii</i> , Wyd. Morskie, Gdańsk (in Polish) Umiński T. (1976) <i>Zwierzęta i oceany: popularna zoogeografia wód morskich</i> . Wydawnictwo Szkolne i Pedagogiczne, Warszawa (in Polish) Żmudziński L. (1990) <i>Świat zwierzęcy Bałtyku: atlas makrofauny</i> . Wydawnictwo Szkolne i Pedagogiczne, Warszawa (in Polish) | |
| | Supplementary literature | Gage J.G., Tyler P.A. (1991) <i>Deep Sea Biology</i> , Cambridge University Press Korzeniewski K. (1998) <i>Ochrona środowiska morskiego</i> , Wyd. UG, Gdańsk (in Polish) Lwowicz M.I. (1979) <i>Zasoby wodne świata</i> , PWN Warszawa (in Polish) Depowski S. (1998) <i>Surowce mineralne mórz i oceanów</i> , Wyd. Scholar, Warszawa (in Polish) Różańska Z. (1987) <i>Zasoby, zanieczyszczenia i ochrona wód morskich ze szczególnym uwzględnieniem Bałtyku</i> , PWN Warszawa (in Polish) | |
| | eResources addresses | | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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