

Subject card

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| Subject name and code | Animal Ecology, PG_00103589 | | | | | | |
| Field of study | Environmental Protection | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | 2026/2027 | | |
| Education level | Bachelor's studies | Subject group | | | 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 | | | 2.0 | | |
| Learning profile | academic | Assessment form | | | credit | | |
| Conducting unit | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. Mateusz Ciechanowski | | | | |
| | 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 | | 5.0 | | 15.0 | 50 |
| Subject objectives | <ol style="list-style-type: none"> 1. Presentation of range of interests of animal ecology 2. Indication of features characteristic to animal ecology 3. Presentation of animal reactions (physiological, behavioural, demographic) to the environmental factors 4. Discussion on factors and mechanisms regulating population size and distribution of animals 5. Presentation of issues associated with applied ecology (wildlife conservation, exploitation of animal populations, control of invasive and pest species) | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [OŚL3_K05] Identifies the level of her/his knowledge and skills, demonstrates the need to update knowledge about the environment and its protection, demonstrates the need for continuous professional training and personal development. | Identifies his/her/their level of knowledge within the field of animal ecology and can deepen it in a focused way, using various sources Identifies significance of obtained knowledge within the field of relationships between natural and anthropogenically changed environment and animal populations for environmental protection and sustainable use of environment | [SK1] oral statement/conversation/discussion |
| | [OŚL3_W05] Explains the course of natural and anthropopressional physical, chemical and biological processes and phenomena occurring in nature at various levels of matter organisation. | Describes and properly interprets complex impacts of humans on population size, distribution and behaviour of non-human animals, including economically important species Explains effect of anthropopressure on animals on organism, population and community level | [SW4] test/exam - oral or written |
| | [OŚL3_U04] Uses specialist language in the discussion and properly uses the nomenclature in the field of environmental protection and individual disciplines related to it. | Distinguished basic terminology within the field of animal ecology and describes particular terms | [SU1] oral statement/conversation/discussion |
| [OŚL3_W02] Characterises the relationships and relationships between various disciplines of natural sciences and science, uses knowledge of mathematics, physics, chemistry and biology in the description of basic concepts, concepts and principles in environmental protection. | Describes ecological relationships and reactions of animals to factors of physical environment Values significance of empirical data for interpretation of relationships between animal organisms and environment, among individuals within the population and among populations Explains significance of ecological relationships in practice of animal conservation | [SW4] test/exam - oral or written | |
| Subject contents | Range of interests within the discipline of animal ecology. Features characteristic to that discipline within the range of general ecology. Concepts of ecological niche and habitat preferences. Reactions of animals (physiological, behavioural, demographic, evolutionary) to environmental factors, especially temperatures. Climate change ecology. Resources and their use by animals. Foraging methods and strategies. Population ecology: demographics and natural regulation of population size and distribution. Relationships between populations of different species. Trophic cascades, landscape of fear. Factors affecting species diversity. Applied ecology: conservation, exploitation and population control. | | |
| Prerequisites and co-requisites | passing the course "General ecology" | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | written test | 51.0% | 100.0% |
| Recommended reading | Basic literature | Krebs CJ. 2011. Ekologia. Eksperymentalna analiza rozmieszczenia i liczebności. PWN, Warszawa. Begon M., Townsend CR., Harper JL. 2006. Ecology: from individuals to Ecosystems. 4. Ed. Blackwell. Cain ML., Bowman WD., Hacker SD. 2008. Ecology. Sinauer. Sunderland Krebs J.R., Davies N.B. 2001. Wprowadzenie do ekologii behawioralnej. PWN, Warszawa Singer F. D. 2016. Ecology in Action. Cambridge Univ. Press. Cambridge. | |
| | Supplementary literature | None | |

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| | eResources addresses | |
| Example issues/ example questions/ tasks being completed | The same as above but in English | |
| Work placement | Not applicable | |

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