University of Gdańsk

Subject card

Subject name and code	Nature and enviromental protection, PG_00196840		
Field of study	Biology		
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	4	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Geobotanics and Nature Conservation -> Department of Plant Taxonomy and Nature Conservation -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Piotr Rutkowski	
	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	16.0	50

Subject objectives

- Understand the causes and directions of environmental degradation and know how to protect components of inanimate nature.- To learn the basics of nature and environmental protection law.- To know the forms and methods of nature protection.- Understanding the problems of nature and environmental protection

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLL3_W16] The graduate knows and understands the relationship between the achievements of a chosen field of science and discipline of natural sciences, and the possibilities of their use in socio-economic life, taking into account the sustainable use of biodiversity	The graduate explains the relationship between the achievements of the selected field of science and discipline of natural sciences and the possibilities of their use in socio-economic life, taking into account the sustainable use of biodiversity	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work [SW5] implementation of a problem task
[BIOLL3_W15] The graduate knows and understands at an advanced level the rules, methods and techniques of conducting field research in the natural environment and the possibilities of their use in nature conservation	The graduate introduces the basic rules, methods and techniques of field research in the natural environment and the possibilities of their use in nature conservation	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work [SW5] implementation of a problem task
[BIOLL3_K01] The graduate is prepared to evaluate his/her own knowledge, understand the need for continuous learning and development, and is open to new ideas	Graduates critically self-assess their own competence and update their knowledge and improve their skills	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work [SK4] test/exam - oral or written [SK5] implementation of a problem task

Subject contents	History of human impact on the environment. Exhaustible and inexhaustible resources of nature. Water - resources, pollutants, sources of pollution, methods of protection. Air - composition of the atmosphere, air pollutants and related phenomena (acid rain, smogs, ozone hole, anthropogenic greenhouse effect), methods of protecting the air from pollution. Soil degradation and protection of soil resources. Waste management. Use of inexhaustible sources of energy. Monitoring of the environment in Poland. Strategy of sustainable development. Basic legal acts and international conventions on nature and environment protection. Organization of nature protection in Poland and the European Union. Forms of exploitation of living nature. Causes of extinction of plant and animal species. Species protection, red lists and books. The problem with expansive and invasive species. Area-based protection. Natura 2000 network as a form of nature conservation. Conservation of genetic, species and biocenotic diversity. Methodology of protection of species, biocenoses and biotopes based on examples from the Gdansk Pomerania region.
Prerequisites and co-requisites	
Assessment methods and criteria	

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

Recommended reading	Basic literature
	1. Dobrzańska B., Dobrzański G., Kiełczewski D. 2008. Ochrona środowiska przyrodniczego. Wyd. Nauk. PWN. 2. Symonides E. 2007. Ochrona Przyrody. Wyd. UW. 3. Popkiewicz M. 2012. Świat na rozdrożu Wyd. Sonia Draga 4. Popkiewicz M., Kardaś A., Malinowski Sz. 2018 . Nauka o klimacie. Wyd. Sonia Draga
	Supplementary literature
	1. Chełmicki W. 2002. Woda zasoby, degradacja, ochrona. PWN. 2. Craig J.R., Vaughan D. J., Skinner B. J. 2003. Zasoby Ziemi. PWN. 3. Mannion A. M. 2001. Zmiany środowiska Ziemi. PWN. 4. Rosik-Dulewska Cz. 2008. Podstawy gospodarki odpadami, PWN. 5. Pullin A.S. 2012. Biologiczne podstawy ochrony przyrody. PWN, Warszawa. 6. Fudali E. 2009. Antropogeniczne zmiany w ekosystemach. UWP, Wrocław.
	eResources addresses
Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

Document generated electronically. Does not require a seal or signature.