University of Gdańsk

Subject card

Subject name and code	Paleontology - laboratory classes, PG_00193068		
Field of study	Geology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
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	1	Language of instruction	Polish
Semester of study	2	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Marine Geology -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Małgorzata Witak	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	30.0	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	3.0	42.0	75

Subject objectives

Ability to macroscopically identify fossils of invertebrate fauna and Carboniferous flora

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOLL3_W04] knows and understands phenomena and processes occurring in the past and today in the interior of the Earth and on its surface, defines the methods of how to study them	knows and understands the mechanisms of plant and animal evolution in the Phanerozoic	[SW4] test/exam - oral or written
[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations	is able to identify palaeontological objects and link them to their habitat	[SU4] test/exam - oral or written
[GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented	has the ability to reason analytically and synthetically in the field of paleontology leading to correct inferences about the evolution of animals and plants	[SU4] test/exam - oral or written
[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	knows and understands the terminology specific to palaeontology	[SW4] test/exam - oral or written
[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods	knows and identifies palaeontological objects using appropriate macroscopic methods	[SW4] test/exam - oral or written

Subject contents	Process of fossilisation, fossil preservation states, fossil organic assemblages. Identification of the main representatives of marine invertebrate fossils (sponges, corals, brachiopods, trilobites, gastropods, bivalves, cephalopods, lilyfish, sea urchins, graptolites) their environment and lifestyle, the chemistry of the skeleton and its elements, significance for geological sciences. Overview of Carboniferous flora.
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
colloquium I - written test or oral colloquium	51.0%	50.0%
colloquium II - written test or oral colloquium	51.0%	50.0%

Recommended reading

Basic literature	Radwańska U., 1999. Podstawy paleontologii, Wydawnictwo Uniwersytetu Warszawskiego, Warszawa
Supplementary literature	Lehmann U., Killmer G., 1991. Bezkręgowce kopalne, Wyd. Geologiczne, Warszawa Dzik J., 1997. Dzieje życia na Ziemi, Wyd. Naukowe PWN, Warszawa Raup D.M., Stanley S.M., 1984. Podstawy paleontologii, Wyd. Naukowe PWN, Warszawa Stanley S.M., 2002. Historia Ziemi, Wyd. Naukowe PWN, Warszawa McAlester A.L., 1979. Historia życia. Biblioteka Nauk o Ziemi, Wyd. Naukowe PWN, Warszawa
eResources addresses	

Example issues/ example questions/ tasks being completed	1 Explain the phylogenetic development of ammonites 2. Discuss the importance of trilobites to the life sciences 3. Characterise the main groups of land plants in the Silurian, Devonian and Carboniferous
Work placement	Not applicable

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