University of Gdańsk

Subject card

Subject name and code	Geology - lecture, PG_00199313						
Field of study	Marine Hydrography						
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			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	1		Language of instruction	Polish			
Semester of study	1		ECTS credits	2.0			
Learning profile	practical		Assessment form	exam			
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 Angelika Szmytkiewicz					
	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		1.0	19.0	50	
Subject objectives	Understanding the mechanism, causes and effects of endogenous and exogenous processes.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[HML3-U19] is able to plan and implement independent learning and improvement of his/her professional competences	is able to independently deepen and update knowledge about the manifestations and effects of geological processes	[SU1] oral statement/conversation/ discussion
[HML3-W01] knows and understands, at an advanced level, selected facts, phenomena and processes, as well as methods and theories concerning them, explaining the complex relationships between them, constituting basic general knowledge in the field of scientific disciplines forming the theoretical foundations specific to the field of study	knows and understands at an advanced level the relationship of geological processes to the laws of physics	[SW4] test/exam - oral or written
[HML3-W02] knows and understands, at an advanced level, selected phenomena and processes occurring in the hydrosphere, atmosphere, lithosphere and biosphere, their interconnections and relations, as well as practical applications of this knowledge in professional activities related to the field of study	knows and understands at an advanced level the course of geological processes, their causes and effects	[SW4] test/exam - oral or written
[HML3-U08] is able to independently use the professional literature available in traditional and electronic form, make an assessment, critical analysis and synthesis as well as the correct interpretation of the information obtained	is able to independently deepen and update knowledge on the manifestations and effects of geological processes on the basis of various literature sources	[SU1] oral statement/conversation/ discussion
[HML3-U14] is able to use the applicable terminology in presenting and discussing problems related to the field of study	is able to use terminology specific to physical geology including marine issues	[SU4] test/exam - oral or written

Subject contents

Structure of the Earth's interior and its evolutionary outline. Basics of plutonism, volcanism, diastrophism and metamorphism. Tectonics of the lithosphere plates. Weathering of the lithosphere causes and effects. Aeolian, glacial, glacifluvial, limnic, fluvial and marine processes including erosion, transport and accumulation.

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	MIZERSKI W.: Geologia dynamiczna. Wydawnictwo Naukowe PWN, Warszawa 2010. WITAK M., PRUSZKOWSKA-CACERES M., SZYMCZAK E.: Podstawy geologii. Przewodnik do ćwiczeń. Wyd. UG, 2015.
Supplementary literature	ALLEN P. A.: Procesy kształtujące powierzchnię Ziemi. Wydawnictwo Naukowe PWN, Warszawa 2000. JAROSZEWSKI W. (red.): Słownik geologii dynamicznej. Wyd. geologiczne, Warszawa 1985. SKOCZYLAS J.: Budowa Ziemi. Wielka Encyklopedia Geografii Świata. Tom II. Wydawnictwo Kurpisz, Poznań 1996. WITT A., BORÓWKA K. R.: Rzeźba powierzchni Ziemi. Wielka Encyklopedia Geografii Świata. Tom VI. Wydawnictwo Kurpisz, Poznań 1997.
eResources addresses	

Example issues/ example questions/ tasks being completed

1. Describe the surface discontinuity between the Earth's mantle and core

2. List the 5 mid-ocean ridges

3. Explain the difference between traction and saltation

Work placement

Not applicable