

<b>Course title</b> Geologia/Geology		<b>ECTS code</b> 7.2.0496	
<b>Name of unit administrating study</b>			
<b>Faculty of Chemistry</b>			
<b>Studies</b>			
<b>Field of study</b>	<b>Type</b>	<b>Form</b>	
Environmental Protection	Bachelor	Full-time studies	
<b>Teaching staff</b> Dr Karol Tylman			
<b>Forms of classes, the realization and number of hours</b>		<b>ECTS credits</b>	
<b>A. Forms of classes, in accordance with the UG Rector's regulations</b> lecture, audytorium classes		classes - 45 h tutorial classes - 3 h student's own work - 27 h TOTAL: 75 h - 3 ECTS	
<b>B. The realization of activities</b> In-class learning			
<b>C. Number of hours</b> lecture 30 h, audytorium classes 15 h			
<b>The academic cycle</b> 2019/2020 winter semester			
<b>Type of course</b> obligatory		<b>Language of instruction</b> Polish	
<b>Teaching methods</b>  Lecture with multimedial presentation Work in groups		<b>Form and method of assessment and basic criteria for evaluation or examination requirements</b>	
		<b>A. Final evaluation, in accordance with the UG study regulations</b> Course completion (with a grade)	
		<b>B. Assessment methods</b> written exam (test) colloquium the final grade will be determined based on partial grades received during the semester	
		<b>The basic criteria for evaluation</b>  Classes:  1) colloquium of recognition of minerals and rocks (on pass, without grades)  2) a written colloquium in the form of a test with open questions from the knowledge of minerals and rocks (on grades)  The condition for passing the classes is to receive a pass mark from the recognition colloquium and a positive mark from the written colloquium, which then becomes the final mark from the classes  Lecture: written exam in the form of an open-question test	

### Required courses and introductory requirements

#### A. Formal requirements

The condition to get a final pass is to receive a positive mark from the classes

#### B. Prerequisites

**Brak**

### Aims of education

The lecture: The transfer of knowledge about the construction of the interior of the Earth and the Earth's crust and the course of geological processes

Classes: Acquiring the ability to macroscopically recognize the basic minerals and rocks that make up the earth's crust, getting to know their classification

### Course contents

Lecture: construction of the Earth's interior; plutonism, volcanism, metamorphism, diastrophism; aeration processes; erosion; sedimentation; water circulation in rocks.

Classes: basic elements of crystallography; structure and properties of minerals; review of the most important rock-forming minerals; mineral composition, structures and textures of magma rocks, classification and review of magma rocks; mineral composition of sedimentary rocks, classification and review of sedimentary rocks; mineral composition and classification of metamorphic rocks.

### Bibliography of literature

#### A. Literature required to pass the course

Basic:

Książkiewicz M. 1979, "Geologia dynamiczna". Wyd. Geol. Warszawa.

Mizerski W. 2003, "Geologia dynamiczna dla geografów". PWN, Warszawa.

Jaroszewski W. (red.), 1986. "Przewodnik do ćwiczeń z geologii dynamicznej". Wyd. Geol. Warszawa.

#### B. Extracurricular readings:

Thompson G.R., Turk J. 1998, "Introduction to physical geology". Saunders College Pub.