

## COURSE DESCRIPTION

### 1. GENERAL

<b>SCHOOL</b>	ENVIRONMENT, GEOGRAPHY AND APPLIED ECONOMICS		
<b>DEPARTMENT</b>	GEOGRAPHY		
<b>LEVEL OF COURSE</b>	Undergraduate		
<b>COURSE CODE</b>	GF0601	<b>SEMESTER</b>	1 <sup>st</sup>
<b>COURSE TITLE</b>	PHYSICAL GEOGRAPHY		
<b>STRUCTURE OF TEACHING ACTIVITIES</b>		<b>TEACHING HOURS PER WEEK</b>	<b>NUMBER OF CREDITS ALLOCATED (ECTS)</b>
Lectures and Laboratory Classes		3	5
<b>TYPE OF COURSE</b>	Compulsory		
<b>PREREQUISITES</b>	-		
<b>LANGUAGE OF INSTRUCTION</b>	GREEK		
<b>COURSE OFFERED TO ERASMUS STUDENTS</b>	YES (in English if required)		
<b>(URL)</b>	<a href="https://eclass.hua.gr/courses/GEO126/">https://eclass.hua.gr/courses/GEO126/</a>		

### 2. EXPECTED LEARNING OUTCOMES

<p><b>Learning outcomes</b>  <i>Describe the objectives of the course as well as the expected learning outcomes</i></p>
<p>The course "Physical Geography" aims to introduce students to the basic concepts of individual disciplines of Physical Geography such as Climatology, Geology, and Oceanography. It is the first contact of the student with the planet earth and the factors (processes) that have shaped and continue to shape it.</p> <p>In this course the student:</p> <ul style="list-style-type: none"> <li>• acquires knowledge about the physical processes occurring both inside (internal) and on the surface of the earth (external),</li> <li>• develops skills in reading a topographic map, designing and interpreting a topographic cross section (cross profile),</li> <li>• learns to study geological maps and to design and interpret geological cross sections,</li> <li>• learns to recognize basic geological features (such as faults, folds, rock types) in the field,</li> <li>• becomes familiar with processing and interpreting primary data and drawing conclusions about physical processes.</li> </ul>

### 3. COURSE CONTENTS

#### Classroom Lectures:

1. Genesis and structure of the Earth.
2. Continents and ocean basins.
3. The theory of Plate Tectonics.
4. Minerals and rocks.
5. Internal processes, volcanism, types of volcanic eruptions, earthquakes.
6. Tectonic characteristics, faults, folds.
7. External processes, weathering, erosion, and deposition.
8. Karstic processes, karst relief and karst landforms.
9. Introduction to Climatology, Climate, Climate Types.
10. Drainage networks.
11. Glaciers, ice formation, glacier movement, glacial landforms.
12. Geomorphic characteristics of the relief of Greece.

#### Laboratory Class:

1. reading a topographic map,
2. construction of topographic cross sections (profiles),
3. reading a geological map and construction of geological cross sections,
4. study of the rainfall characteristics of Sterea Hellas (Central Greece),
5. study of the Santorini volcano.

### 4. TEACHING AND ASSESSMENT METHODS

<b>TYPE OF LECTURES</b>	<ul style="list-style-type: none"> <li>• In class lectures</li> <li>• Laboratory Lectures and Practice</li> <li>• Teaching in the field (Field trip)</li> </ul>														
<b>ICT USE</b>	ICT use, Internet use and eclass														
<b>TEACHING STRUCTURE</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Activity</i></th> <th style="text-align: center;"><i>Hours per semester</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: center;">12</td> </tr> <tr> <td>Laboratory</td> <td style="text-align: center;">24</td> </tr> <tr> <td>Field work</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Weekly assignments</td> <td style="text-align: center;">31</td> </tr> <tr> <td>Studying – personal work</td> <td style="text-align: center;">45</td> </tr> <tr> <td><b>TOTAL</b></td> <td style="text-align: center;"><b>127</b></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Hours per semester</i>	Lectures	12	Laboratory	24	Field work	15	Weekly assignments	31	Studying – personal work	45	<b>TOTAL</b>	<b>127</b>
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<b>ASSESSMENT METHODS</b>	<p>Assessment Language: Greek</p> <p>Assessment Methods</p> <p>The basic assessment type of the course is the written examination at the end of the semester (3 hours) providing the 100% of the final grade.</p> <p>The examination includes both questions regarding the lectures (50%) and the laboratory (50%).</p> <p>Submission of weekly laboratory exercises is a necessary prerequisite for participation in the examination.</p> <p>The evaluation criteria are announced at the beginning</p>														

	of the semester.
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## 5. RECOMMENDED READING

<p>Vouvalidis, K. (2011). Physical Geography. Disigma Publications, Thessaloniki: 160p</p> <p>Deritzakis, M., Lekkas, S. (2003). Investigating the Earth. Koralli Publications, Athens: 593p</p> <p>Easterbook, D. (1999). Surface Processes and Landforms. Second edition. Prentice Hall, New Jersey. 546 p.</p> <p>McKnight, T., Hess, D. (2008). Physical Geography A landscape Appreciation. Virtual Field Trip Edition. Prentice Hall, N. Jersey. 611p.</p>
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