

**COURSE DATA****Data Subject**

<b>Code</b>	33644
<b>Name</b>	Introduction to physical geography
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	6.0
<b>Academic year</b>	2019 - 2020

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. year</b>	<b>Period</b>
1318 - Degree in Geography and the Environment	Faculty of Geography and History	1	First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1318 - Degree in Geography and the Environment	593 - Geography II	Basic Training

**Coordination**

<b>Name</b>	<b>Department</b>
CERDA BOLINCHES, ARTEMIO	195 - Geography

**SUMMARY**

English

The course "Introduction to Physical Geography" introduces the basic contents of the Physical Geography and places special emphasis on i) the connections between different areas of the Earth system, and ii) the interaction between human activity and the natural dynamics of ecosystems.

Introduction to Physical Geography systematically examines the spatial patterns and interrelationships among the physical elements in the earth's surface. Special attention is given to the development of an integrated vision of the atmosphere, water, biota, landforms and soils as a continuum from local to global. Physical geography is not limited to examining the atmosphere, hydrosphere, lithosphere and biosphere in isolation, but rather focuses on understanding the integration of these areas of the natural world on human action.



This course is introductory and therefore needs no special prior knowledge. Student is advised to leave, rather enhance the study of languages, especially English. And it suggests that students do field work (trips) to know the territory and its people directly.

## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

### Other requirements

No

## OUTCOMES

### 1318 - Degree in Geography and the Environment

- Have capacity for analysis and synthesis.
- Have oral and written communication skills in one's own language and in a foreign language.
- Have computer skills related to the field of study.
- Be able to work independently.
- Be able to work in interdisciplinary teams.
- Show commitment to the values of gender equality, interculturality, equal opportunities, universal access for people with disabilities, the culture of peace, democratic values and solidarity.
- Be able to learn independently and show creativity, initiative and entrepreneurship. Be able to resolve unforeseen situations.
- Show motivation for quality, responsibility and intellectual honesty.
- Learn about physical geography.
- Be able to use cartography and geographic information systems.

## LEARNING OUTCOMES

English

At the end of first semester, the course "Introduction to Physical Geography" should have allowed the student to understand the basic contents of the physical geography, with special emphasis on the connections between different areas of the Earth system, and the interaction between human activity and the natural dynamics of ecosystems.



## DESCRIPTION OF CONTENTS

### 1. Introduction: scales and environment systems

Spatial and temporal scales of the natural environment. Interrelationships between the physical elements of the Earth. Natural systems and human action

### 2. Earth's internal structure and dynamics

Internal structure and dynamics of the Earth's crust. The rock cycle. The configuration of continents and oceans through geologic time. Geological chronology

### 3. Energy balance of the planet. World Climates

Energy balance of the planet. Zonality, seasonality, the role of general circulation and ocean currents in the energy distribution. Types of climate in the world and its distribution

### 4. The global hydrological cycle

The global hydrological cycle. Large reservoirs of the planet and trade flows

### 5. Soils and biomes on Earth

The soil formation. Major soil units on the planet. Vegetation. Major biomes of the Earth: properties, dynamics and changes

## WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	30,00	100
Other activities	15,00	100
Classroom practices	15,00	100
Development of group work	10,00	0
Study and independent work	30,00	0
Readings supplementary material	10,00	0
Preparation of evaluation activities	10,00	0
Preparing lectures	30,00	0
<b>TOTAL</b>	<b>150,00</b>	



## TEACHING METHODOLOGY

**THEORETICAL PREPARATION CLASS:** Students should review the manual recommended the subject to be taught in the next class, in order to confirm that all doubts are clarified during the teacher's explanation.

**PRACTICAL PREPARATION:** There will be practical work in groups to be presented orally and electronically to the teacher. Students should meet regularly (4 students per group) and consult with the evolution of teacher preparation work. During the field trips will be made practical work (field notes) delivered to the teacher 10 days after the fieldwork.

**PREPARATION FOR PRACTICAL WORK**

**REALIZATION OF TEAMWORK**

**TUTORIALS:**

It offers 6 hours of weekly tutoring sessions for students' attention

**COMPLEMENTARY ACTIVITIES:**

There will be two outputs of fieldwork.

\* note. It is imperative to pass the test (5 of 10) to account for the other tasks evaluated

<sup>1</sup> The attendance and scheduled field work is required. The assistance involves the renunciation of the course.

## EVALUATION

English

1. Written tests: there will be a written test of the theoretical content of the course.
2. Preparation of lectures, were assessed by written test.
3. Individual practical: the evaluation of assistance to field work (activities) will be assessed through the "field notes" to draw up each student before, during and after the practice field.
4. Teamwork. In groups of four students will be a course work on a region or on an environmental issue that will be thoroughly discussed by the group and presented orally
5. The composition of the final will follow, in short, the following table:



EXAM	%
Attendance and participation in class and follow-up (continuous assessment) will include a field notebook for the two outputs to do and the reading and review of a book	25
Theoretical examination of the contents of the Syllabus	50*
Work to develop the student group	25
<b>TOTAL<sup>1</sup></b>	<b>100 %</b>
<p>* note. It is imperative to pass the test (5 of 10) to account for the other tasks evaluated</p> <p><sup>1</sup> The attendance and scheduled field work is required. The assistance involves no renunciation of the course.</p>	

## REFERENCES

### Basic

- Doerr, A.H. 1990. Fundamentals of Physical Geography. Dubuque, Brown, 378 pp.
- López Bermúdez, F., Rubio, J.M. y Cuadrat, J.M. 1992. Geografía Física. Madrid, Cátedra, 594 pp
- Rosselló, V.M., Panareda, J.M. y Pérez, A. 1994. Geografía Física, Valencia, Universitat de València, 438 pp.
- Strahler, A.N. y Strahler, A.H. 1989. Geografía Física. Barcelona, Omega, 550 pp.
- Tarbuck, E., Lutgens, F. y Tasa, D. 2009. Earth. An Introduction to Physical Geology: International Edition. Oxford University Press, 657 pp.



- McNeil, John, R. 2003. Algo nuevo bajo el sol. Historia medioambiental del mundo en el siglo XX. Madrid, Alianza Editorial, 503 pp.
- Tortosa, P. 2011. De viatge pel País Valencià. Al segle XXI i en el marc de la sostenibilitat. Carena editors, Valencia 134 pp.
- Bryson, B. 2005. Una breve historia de casi todo. RBA, Barcelona, 625 pp.

## **ADDENDUM COVID-19**

**This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council**

**English version is not available**