

		Teaching Guide	)		
	Identifying D	Data			2023/24
Subject (*)	Physical Geography			Code	610G02006
Study programme	Grao en Bioloxía				
		Descriptors			
Cycle	Period	Year		Туре	Credits
Graduate	2nd four-month period	First		Basic training	6
Language	Spanish				
Teaching method	Face-to-face				
Prerequisites					
Department	Física e Ciencias da Terra				
Coordinador	Santos Fidalgo, Luisa E-mail luisa.santos@udc.es			dc.es	
Lecturers	ecturers Hernández Hernández, Armand E-mail armand.hernandez@udc.e		dez@udc.es		
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Web		, ,			
General description	General and global study of the main	elements of Geog	aphy in Nat	ure, their internal corr	elations and significant elem
	with an integral introduction to the stu	udy of relief, climate	, water, bio	sphere and landscape	9.

Study programme competences			
Code	de Study programme competences		
A6	Catalogar, avaliar e xestionar recursos naturais.		
A22	Describir, analizar, avaliar e planificar o medio físico.		
A23	Avaliar o impacto ambiental. Diagnosticar e solucionar problemas ambientais.		
A30	Manexar adecuadamente instrumentación científica.		
A32	Desenvolverse con seguridade no traballo de campo.		
B1	Aprender a aprender.		
B2	B2 Resolver problemas de forma efectiva.		
B3	B3 Aplicar un pensamento crítico, lóxico e creativo.		
B4	Traballar de forma autónoma con iniciativa.		
B5	35 Traballar en colaboración.		
B6	B6 Organizar e planificar o traballo.		
B7	B7 Comunicarse de maneira efectiva nunha contorna de traballo.		
B8	B8 Sintetizar a información.		
B9	B9 Formarse unha opinión propia.		
B10	B10 Exercer a crítica científica.		
B11	1 Debater en público.		
B12	Adaptarse a novas situacións.		
B13	Comportarse con ética e responsabilidade social como cidadán e como profesional.		

 Learning outcomes
 Study programme

 Competences
 competences



Acquisition of skills for the use, analysis and appraisal of the acquired knowledge in the practical context required by	A6	B1	
professional activities.	A22	B2	
	A23	B3	
	A30	B4	
	A32	B5	
		B6	
		B7	
		B8	
		B9	
		B10	
		B11	
		B12	
		B13	
To work with autonomy and initiative, retrieving useful information from bibliographic references and other sources.	A6	B1	
	A22	B2	
	A23	B3	
	A30	B4	
	A32	B5	
		B6	
		B7	
		B8	
		B9	
		B10	
		B11	
		B12	
		B13	
Development of skills for interpretation and synthesis of data supplied by references, different types of maps and photo	A6	B1	
nterpretation.	A22	B2	
	A23	B3	
	A30	B4	
	A32	B5	
		B6	
		B7	
		B8	
		B9	
		B10	
		B11	
		B12	
		B13	

Contents		
Topic Sub-topic		
I. INTRODUCTION	1. Physical Geography: concept, division and correlation with other sciences.	
	2. The Earth System and subsystems	
	3. The Earth Surface: Global Topography	



II. THE ATMOSPHERE AND THE HYDROLOGIC SYSTEM	4. Composition and structure of the atmosphere
OF THE EARTH	5. Energy of the atmospheric system
	6. Winds and atmospheric movement
	7. Ocean-atmospheric interaction. Oceanic circulation
	8. Atmospheric water and water balance
	9. Types of precipitation, air masses and weather fronts
	10. Climatic zonation of the Earth
	11. Climatic change
III. THE BIOSPHERE	12. Climate, soil, flora and fauna
	13. Soil formation, properties and classification
	14. Biogeographic processes. Phytogeography and zoogeography
IV. LANDSCAPE AND RELIEF EVOLUTION	15. Weathering and slope processes
	16. Fluvial and lacustrine Systems
	17. Coastal Systems
	18. Karst Systems
	19. Glacial Systems
	20. Desert Systems

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Guest lecture / keynote speech	B1 B3	28	70	98
Laboratory practice	A30	10	5	15
Supervised projects	A6 A22 A23 B2 B4 B5	8	16	24
	B6 B7 B9 B10 B11			
	B12 B13			
Field trip	A32	5	5	10
Objective test	B8	2	0	2
Personalized attention		1	0	1

(\*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

	Methodologies		
Methodologies	Description		
Guest lecture /	Theoretical and basic concepts will be acquired in lectures.		
keynote speech			
Laboratory practice	Practices are a basic complement of theoretical lectures to deal with the learning of basic methods and techniques for working		
	with geographical data. The aim is that the students develop skills for interpretation, synthesis and analysis supplied by		
	references, maps and photogeology, based on the contents of the subject. Moreover, it is intended to transmit the basic		
	knowledge for the use of geographical information systems and spatial analysis using software (Geographic Information		
	Systems).		
Supervised projects	They will consist on the development of themes and individual or group reports, proposed by the Professor, about several		
	aspects of the subject. The following is required: searching and dealing with data, summarizing main ideas, work division,		
	group discussion and exposition of reports. Moreover, the students can voluntarily participate in learning service (ApS)		
	activities. The results of the activities will be assessed. The Professor will continuously supervise the development of the		
	different activities.		
Field trip	It is a complement of the other activities.		
Objective test	Eliminatory tests of the theoretical contents of the subject that will consist on short of test questions and comments or		
	identification of diagrams and pictures.		

**Personalized attention** 



Methodologies	Description
Laboratory practice	The personalized attention described for these methodologies is understood as profesor-student face-to-face work, and
Supervised projects	requieres student participation. These activities will be programmed by the teachers throughout the year according to the
Field trip	subject work plan.
	Personalized advice may be also received via online, through e-mail, virtual platform,
	Part-time students may also perform these works and submit them to the teachers for their assessment. Part-time students can also receive personalized assistance using both face-to-face and virtual tutorial sessions.

		Assessment	
Methodologies	Competencies	Description	Qualification
Laboratory practice	A30	Avaliación continua.	20
Supervised projects	A6 A22 A23 B2 B4 B5	Traballos elaborados polos alumnos e presentación dos mesmos.	30
	B6 B7 B9 B10 B11		
	B12 B13		
Objective test	B8	Cuestionarios eliminatorios dos contidos teóricos da asignatura.	50

Assessment comments



## Attendance

to practical lectures (including the submission of

requested exercises) and submission of seminar reports are required conditions to be evaluated. Practical work and seminar reports will account for

50% of the final score (practical works: 20% and seminar reports: 30%). Objective tests will account for 50% of the score. To pass the course, 5 points out of 10 should be obtained in each test. In

addition to this, the submission of the seminar reports, as well as the active

participation in them, attendance to tutorial sessions,

fieldtrip, AEMET visit, etc., will also be considered in the final score. Students

who do not pass the partial exemption exams will be evaluated in the

official tests of June and July. This call will be evaluated in the same way (percentages), by examining the theoretical and practical contents and submitting the seminar reports. To qualify as NOT PRESENTED, the students should not have

participated in more than 40% of the evaluable activities.

All prior observations apply to part-time students and/or with academic exemption. Exceptional cases: when a student could not do all the evaluation activities due to justified causes, the Professors will take the actions they consider adequate to assess the work of the student. Students who pass the course in the first opportunity will have priority to be granted with Honors.

EARLY CALL FOR DECEMBER: The teaching guide that will be applied to students who apply for the early December call will be that of the current academic year.

The fraudulent completion of tests or evaluation activities, once proven, will result in a direct failing grade for the examination in which it occurred: the student will be graded as "fail" (numerical grade of 0) for the corresponding academic term, whether the misconduct takes place during the first or second opportunity. If necessary, their grade will be modified in the record of the first attempt.

	Sources of information		
Basic	De Blij, H.J., Muller, P.O. y Williams, R.S. 2004. Physical Geography. The global environment. Oxford University		
	Press, Oxford.López Bermúdez, F., Rubio Recio, J.M. y Cuadrat, J.M. 1992. Geografía Física. Cátedra,		
	Madrid.Strahler, A.N. y Strahler, A.H. 1994. Geografía Física. Omega, Barcelona.		
Complementary	Briggs, D. y Smithson, P. 1992. Fundamentals of Physical Geography. Routledge, LondonGabler, R.E., Sager,		
	R.J., Wise, D.L. y Petersen, J.F. 1999. Essentials of Physical Geography. Thomson Learning, London.Strahler,		
	A.N. y Strahler, A.H. 2002. Â Physical Geography: science and systems of the human environment. Â John Wiley and		
	Sons, New York.Hamblin, W.K. y Christiansen, E.H. 2001. Earth?s Dynamic Systems. Prentice Hall,		
	London.Skinner, B. J. & Porter, S. C. 1995. The Dynamic Earth. An Introduction to Physical Geology. John		
	Wiley and Sons, New York.Briggs, D. y Smithson, P. 1992. Fundamentals of Physical Geography. Routledge,		
	LondonGabler, R.E., Sager, R.J., Wise, D.L. y Petersen, J.F. 1999. Essentials of Physical Geography. Thomson		
	Learning, London.Strahler, A.N. y Strahler, A.H. 2002. Physical Geography: science and systems of the human		
	environment. John Wiley and Sons, New York. Hamblin, W.K. y Christiansen, E.H. 2001. Earth?s Dynamic		
	Systems. Prentice Hall, London.Skinner, B. J. & Porter, S. C. 1995. The Dynamic Earth. An Introduction to Physical		
	Geology. John Wiley and Sons, New York.		



Recommendations

Subjects that it is recommended to have taken before

## Geology/610G02004

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Ecology I: Individuals and Ecosystems/610G02039

Ecology II: Populations and Communities/610G02040

Edaphology/610G02045

## **Other comments**

Students in Physical Geography should have passed the corse "Geology", compulsory of the first semester. Attendance to theoretical lectures is recommended. English language knowledge is recommended (medium level). Writting, summarizing, and submitting seminar works is required, as well as the basic user knowledge of basic software applications such as internet tools, word processor, presentation software, etc. Green Campus Science Faculty ProgramTo contribute to achieve an immediate sustainable environment and comply with point 6 of the "Environmental Declaration of the Faculty of Sciences (2020)", the documentary works carried out in this subject:- They will be requested mostly in virtual format and electronic form.- If it is printed: - Plastics will not be used. - Double-sided prints will be made. - Recycled paper will be used. - Drafts will be avoided.Incorporation of the gender perspective- As stated in the various applicable regulations for university teaching, the gender perspective must be integrated into this subject (using non-sexist language, using bibliography from authors of both genders, encouraging the participation of male and female students in classroom...).- Efforts will be made to identify and modify sexist biases and attitudes, and the environment will be influenced to change them and promote values of respect and equality.- Situations of gender discrimination should be identified, and actions and measures will be proposed to correct them.

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.