



Teaching Guide

Teaching Guide				
Identifying Data				2017/18
Subject (*)	Physical Geography		Code	610G02006
Study programme	Grao en Bioloxía			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	First	FB	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	
Lecturers	Lado Liñares, Marcos Rodriguez Blanco, Mari Luz Sanjurjo Sanchez, Jorge Santos Fidalgo, Luisa	E-mail	marcos.lado@udc.es m.rodriguez@udc.es jorge.sanjurjo.sanchez@udc.es luisa.santos@udc.es	
Web				
General description	General and global study of the main elements of Geography in Nature, their internal correlations and significative elements, with an integral introduction to the study of relief, climate, water, biosphere and landscape.			

Study programme competences

Code	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	Resolver problemas de forma efectiva.
B3	Aplicar un pensamento crítico, lóxico e creativo.
B4	Traballar de forma autónoma con iniciativa.
B5	Traballar en colaboración.
B6	Organizar e planificar o traballo.
B7	Comunicarse de maneira efectiva nunha contorna de traballo.
B8	Sintetizar a información.
B9	Formarse unha opinión propia.
B10	Exercer a crítica científica.
B11	Debater en público.
B12	Adaptarse a novas situacións.
B13	Comportarse con ética e responsabilidade social como cidadán e como profesional.

Learning outcomes

Learning outcomes	Study programme competences



Desenvolvemento das capacidades de interpretación e síntese da información que suministra a bibliografía, os distintos tipos de cartografía e a fotointerpretación.	A6 A22 A23 A30 A32	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13	
Adquisición dun desenvolvemento adecuado das capacidades de aplicación, análise e valoración dos coñecementos adquiridos no contexto práctico que o futuro exercicio profesional esixe.	A6 A22 A23 A30 A32	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13	
Traballar de forma autónoma con iniciativa, procura de bibliografía e datos en diversas fontes.	A6 A22 A23 A30 A32	B1 B2 B3 B4 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 OF THE EARTH	4. Composition and structure of the atmosphere 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 hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	B1 B3	28	70	98
Laboratory practice	A30	10	5	15
Supervised projects	A6 A22 A23 B2 B4 B5 B6 B7 B9 B10 B11 B12 B13	8	16	24
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 / keynote speech	Trátase de asimilar uns contidos teóricos básicos a partir das clases maxistrais.
Laboratory practice	As prácticas representan un complemento indispensable ás leccións teóricas nas que se abordará a aprendizaxe dos métodos e técnicas máis comúns para o tratamento da información xeográfica co obxectivo de que o alumno desenvolva as capacidades de interpretación, síntese e análise da información que suministra a bibliografía, a cartografía, e a fotoxeoloxía, grazas ó coñecemento global da materia e da súa aplicabilidade. Ademais preténdese que o alumno adquira nocións básicas acerca da utilización da información xeográfica e da súa análise espacial empregando ferramentas informáticas (Sistemas de Información Xeográfica).
Supervised projects	Éstes consistirán na elaboración de temas ou traballos individuais ou en grupos, plantexados polo profesor, sobre diversos aspectos da materia. Requírese: búsqueda e manexo da información, esquematización das ideas principais, división do traballo, discusión en grupo e exposición dos contidos na clase. Os resultados das actividades expostas anteriormente serán avaliados. O profesor asesorará permanentemente o desenvolvemento das diferentes actividades da aprendizaxe.
Field trip	Complemento do resto das actividades.
Objective test	Cuestionarios eliminatorios dos contidos teóricos da asignatura, consistentes en preguntas curtas ou de tipo test e comentarios e identificación de diagramas ou fotografías.

Personalized attention



Methodologies	Description
Laboratory practice Supervised projects Field trip	The personalized attention described in the methodologies to profesor-student face-to-face work, which requires the participation of students. The ways and time for this kind of work will be indicated in relation to each activity throughout the year according to the subject work plan. Personalize advice may be also received via online, by means of e-mail, virtual platform,... Part-time students may also perform these works and provide them to the teachers for their assessment. Part-time students can also receive personalized assistance using both face-to-face and virtual approaches.

Assessment			
Methodologies	Competencies	Description	Qualification
Laboratory practice	A30	Avaliación continua. Avaliación competencias A30 e A32	20
Supervised projects	A6 A22 A23 B2 B4 B5 B6 B7 B9 B10 B11 B12 B13	Traballos elaborados polos alumnos e presentación dos mesmos. Avaliación competencia A22	30
Objective test	B8	Cuestionarios eliminatorios dos contidos teóricos da asignatura. Avaliación competencia B8	50

Assessment comments



Attendance

to practical lectures (including 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%). Theoretical tests will account for 50% of the score. To overcome the subject, the theory must be passed. In addition, the presentation of the seminar reports, as well as the active participation in them, attendance to tutorials, fieldtrip, AEMET visit, etc., will be considered in the final score. Students who do not pass partial tests will be evaluated in the official exams of June and July, accounting such scores in the same way (percentages), by tests on the theoretical and practical contents and submitted of seminar work. In all of them, the score will be maintained, although students could submit a new report to get a higher score than these previously obtained. To obtain the qualification of NOT PRESENTED, the students cannot have participated in more than 40% of the evaluable activities. All prior observations apply to part-time students. For the granting with Honors, first attempt students (June) will be considered as priority.

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, London. Gabler, 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. Briggs, D. y Smithson, P. 1992. Fundamentals of Physical Geography. Routledge, London. Gabler, 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
It is recommended to overpass the subject of the first part of the course "Geology". Attendance to theoretical lectures is recommended. English language knowledge is recommended (medium level). Writing, summarizing, and showing seminar works are required, as well as basic user knowledge on some software applications.

(*)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.