



Teaching Guide				
Identifying Data				2017/18
Subject (*)	Human Ecology	Code	610G02041	
Study programme	Grao en Bioloxía			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	1st four-month period	Fourth	Obligatoria	6
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	Bioloxía			
Coordinador	Fuentes Lopez, Marcelino	E-mail	marcelino.fuentes@udc.es	
Lecturers	Fuentes Lopez, Marcelino	E-mail	marcelino.fuentes@udc.es	
Web	sites.google.com/site/microensayos			
General description	The peculiar relationship among people and between people and the rest of nature is due to our exceptional, although imperfect, talent for cooperation. In this course we analyze how human behavior leads to massive resource use, ecosystem change, material well-being and social problems.			

Study programme competences	
Code	Study programme competences
A5	Analizar e caracterizar mostras de orixe humana.
A6	Catalogar, avaliar e xestionar recursos naturais.
A19	Analizar e interpretar o comportamento dous seres vivos.
A23	Avaliar o impacto ambiental. Diagnosticar e solucionar problemas ambientais.
A24	Xestionar, conservar e restaurar poboacións e ecosistemas.
A27	Dirixir, redactar e executar proxectos en Bioloxía.
A28	Desenvolver e implantar sistemas de xestión relacionados coa Bioloxía.
A29	Impartir coñecementos de Bioloxía.
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.
C1	Expresarse correctamente, tanto de forma oral coma escrita, nas linguas oficiais da comunidade autónoma.
C2	Dominar a expresión e a comprensión de forma oral e escrita dun idioma estranxeiro.
C3	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.
C4	Desenvolverse para o exercicio dunha cidadanía aberta, culta, crítica, comprometida, democrática e solidaria, capaz de analizar a realidade, diagnosticar problemas, formular e implantar solucións baseadas no coñecemento e orientadas ao ben común.
C5	Entender a importancia da cultura emprendedora e coñecer os medios ao alcance das persoas emprendedoras.
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C7	Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida.



C8	Valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade.
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Learning outcomes			
Learning outcomes	Study programme competences		
Analyze, predict and change human behavior in relation to environmental problems.	A5 A6 A19 A23 A24 A27 A28 A29	B3 B9 B10 B11 B12	C1 C3 C8
Apply conceptual tools and theoretical knowledge to the resolution of environmental problems.	A19 A23 A24	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13	
Communicate effectively these analyses, using oral and written language and information technologies.		B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12	C2 C4 C5 C6 C7

Contents	
Topic	Sub-topic
Evolution of cooperation	Mutualism. Manipulation. Reciprocity. Strategic games. Morality.
Pairwise cooperation in humans	Incentives. Information. Division of labor. Markets.
Cooperación en grupo e conflitos	Dereitos de propiedade imperfectos e custes de transacción.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours



Online discussion	A5 A6 A19 A23 A24 A27 A28 A29 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 C1 C2 C3 C4 C5 C6 C7 C8	0	10	10
Field trip	A5 A6 A19 A23 B3 B10 C8 C4	15	0	15
Long answer / essay questions	A5 A6 A19 A23 A24 A27 A28 A29 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 C1 C2 C3 C4 C5 C6 C8	0	28	28
Guest lecture / keynote speech	A5 A6 A19 A23 A24 A28 B2 B3 B7 B8 B9 B10 B11 B12 B13 C1 C5 C6 C8	28	56	84
Long answer / essay questions	A5 A6 A19 A23 A24 A27 A28 A29 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 C1 C2 C3 C4 C5 C6 C8	1	7	8
Directed discussion	A5 A6 A19 A23 A24 A27 A28 A29 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 C1 C2 C3 C4 C5 C6 C8	4	0	4
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
Online discussion	Online debates of student essays
Field trip	Natural reserves of Galicia
Long answer / essay questions	Students write five essays arguing their opinions on environmental topics proposed by the teacher
Guest lecture / keynote speech	Lectures on human social behavior and environmental problems
Long answer / essay questions	Economic games
Directed discussion	Classroom debates on student essay topics and any other differences of opinion arising during the course

Personalized attention	
Methodologies	Description



Long answer / essay questions	Part-time and attendance-exempt students will write five short essays under the supervision of the teacher.
Long answer / essay questions	
Online discussion	

Assessment			
Methodologies	Competencies	Description	Qualification
Long answer / essay questions	A5 A6 A19 A23 A24 A27 A28 A29 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 C1 C2 C3 C4 C5 C6 C8	Human behavior and environmental problems	45
Long answer / essay questions	A5 A6 A19 A23 A24 A27 A28 A29 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 C1 C2 C3 C4 C5 C6 C8	Human behavior and environmental problems	45
Directed discussion	A5 A6 A19 A23 A24 A27 A28 A29 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 C1 C2 C3 C4 C5 C6 C8	Human behavior and environmental problems	5
Online discussion	A5 A6 A19 A23 A24 A27 A28 A29 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 C1 C2 C3 C4 C5 C6 C7 C8	Human behavior and environmental problems	5
Others			

Assessment comments
<p>First-time, part-time and attendance-exempt students will write five essays on questions brought up by the teacher. The student can get up to 2.5 points in each essay. Only her best four essays will count for the final grade. If the student uses in an essay a string of words previously published by another author she will lose all the points obtained in all her essays and will not be allowed to present any more essays. More information in <a href="https://sites.google.com/site/microensayos/">https://sites.google.com/site/microensayos/</a> . At the end of the semester there will be a written test in which the student can get as many points as needed to get a 10 after adding up the points obtained in the essays. The student will get 0.25 points for attending each small group session. The final grade will be the sum of the points of the essays, the test and the small group sessions. Students who submit an essay cannot get a "No show" grade. Students who do not submit any essay and do not take the test will get a "No show" grade. Non-first-time students will be graded with a test and they can get the "Honors" grade. Points obtained in previous attempts at passing the course are not taken into account.</p>

Sources of information	
Basic	<ul style="list-style-type: none"> <li>- Dasgupta, Partha (2006). Economics : a very short introduction . Oxford University Press</li> <li>- Landsburg, S. E. (2012). The armchair economist: economics and everyday life. Free Press</li> <li>- Landsburg, S. E. (2008). More sex is safer sex: the unconventional wisdom of economics. Free Press</li> <li>- Cowen, T. y Tabarrok, A. (2010). Modern principles: microeconomics. Worth Publishers</li> </ul>



Complementary	
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<b>Recommendations</b>
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Subjects that it is recommended to have taken before
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Subjects that are recommended to be taken simultaneously
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Subjects that continue the syllabus
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Other comments
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(\*)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.