Universida_{de}Vigo

8. Social factors in conservation.

Subject Guide 2020 / 2021

IDENTIFYIN					
	nt of protected areas and biodiv	ersity/			
Subject	Management of				
	protected areas				
Carla	and biodiversity P03G370V01801				
Code					
Study	(*)Grao en Enxeñaría Forestal				
programme			Chassa	Vaar	Oundmonster
Descriptors	ECTS Credits		Choose	Year	Quadmester
To a state or	6		Optional	4th	2nd
Teaching	Spanish				
language	Galician				
Department	Candana Divana Adalfa				
Coordinator	Cordero Rivera, Adolfo				
Lecturers	Cordero Rivera, Adolfo				
E-mail	adolfo.cordero@uvigo.es				
Web	http://ecoevo.uvigo.es		.,	· · · · · · · · · · · · · · · · · · ·	
General description	(*)Introdución aos principios da Bio Conservación da Biodiversidade	oloxía da Conserv	ación aplicados a	Xestion de Espa	zos protexidos e
Competenc Code					
Expected res Contents Topic	utcomes sults from this subject		Т	raining and Lear	ning Results
	ce of conservation.	The origins and	hriof history of co	ncorvationist m	ovements. Principles of
1. The science	e or conservation.		iology. Ecology and		ism. Importance of
2. The ecolog	gical values and functions of				ncept of biodiversity. Why
biodiversity.		we should cons	serve the species?	The intrinsic val	ue of species and their
				ental values and	rarity of the species.
		Ecosystemic va			
3. Biodiversit	ty and stability.	The concept of stability. The diversity-stability debate (a history of this			
		controversy, current studies, compartmentalization, diversity and global			
			ations for conserva		
	principles in the exploitation of				ples for the exploitation
natural resou		of resources. Genetic changes in exploited populations. The exploitation of forests. Forest certification (FSC, PEFC).			
5. Extinction					e causes of the rarity of
		and causes of e	CN classification. E extinction. Degrada n dynamica. Popula	ation and destru	
6 Manageme	ent of species and populations.				on. Limioting resources.
J. Manageill	ent of species and populations.				eeding. Role of zoos,
		botanical garde		Importance of e	thology in conservation.
7 Manageme	ent and restoration of ecosystems		osystem managen		
7. Hanageiii	ent and restoration or ecosystems				systems). Restoration of

ecosystems.

Environmental education.

Description of etic values. Valuation of priorities. Cultural changes.

9. The economics of conservation.	Economic evaluation of biodiversity (types of sustainability, decision models in ecological economics, the value of biodiversity). Costs of conservation (method of cost of travel, the method of revealed preferences, an economic and ecological perspective of market). The tragedy of the commons.
10. Political action and conservation.	International organizations (IUCN MAB program). Government agencies: The Spanish strategy for sustainable development. Spanish strategy for the conservation of biodiversity. Non-governmental organizations (NGOs). Companies and individuals. Scientific research, policy and conservation. Ecologism as a political ideology.
11. Reserves and protected parks.	Objectives of the creation of reserves (the problem of fragmentation). Representation of biodiversity. The main features of reserve design: size, dynamism, spatial context, connectivity, buffer zones. Protected natural areas of Galicia.
12. Conservation legislation	International Biodiversity Agreements (Bern, Ramsar, Washington (CITES), Bonn, Biodiversity (Rio de Janeiro). European legislation (Birds Directive, Habitats Directive) State legislation (Law 42/2007 on Natural Heritage, Decree 139 / 2011 Catalog endangered species, Decree 1628/2011 Catalog of alien invasive species) Legislation of Galicia: Galician law of conservation of nature.
13. Management plans for endangered species.	Guidelines, objectives and feasibility. Examples: the management plan for the European turtle (Emys orbicularis) in Galicia; management plan of the odonate populations of European interest; Reproductive biology and management of Corema album in the Cíes Islands.
Practical 1. Design of Reserves: Testing the species-area relationship.	(*)
Practical 2. Taxonomic principles and characteristics of communities. Its use in the decision-making process on conservation.	(*)
Practical 3. Contingent assessment	Discussion about the social attitudes on conservation issues and valuation of emblematic species
Practical 4. Analysis of the viability of populations: using the vortex program.	(*)
Practical 5. Field lesson. Visit to the Center of Zoogenetic Resources of Galicia.	Study of the systems of conservation of germoplasm of autochthonous cattle breeds.
Practical 6. Field lesson. Visit to the Natural Park of Fragas do Eume.	Contact with the managers of the protected area, to discuss its specific characteristics and problems.
	Given the peculiarities of the Park, with its insularity, the visit will be to the reception center of visitors in Vigo, if the climatic conditions do not allow visiting the islands.

Planning				
	Class hours	Hours outside the classroom	Total hours	
Lecturing	30	52.5	82.5	
Studies excursion	11	16.5	27.5	
Mentored work	5	10	15	
Practices through ICT	4	4	8	
Problem and/or exercise solving	2	0	2	
Essay	5	10	15	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
	Description
Lecturing	Lectures in the classroom
Studies excursion	Field lessons
Mentored work	Personal work under supervision

Personalized assistance			
Tests	Description		
Essay	A sand county almanac, Aldo Leopold. Monographic work on the book		

Practices through ICT Practical lessons in the computers room

	Description	Qualification	Training and Learning Results
Lecturing	They will be evaluated through short answer exams.	65	
Studies excursion	They will be evaluated in the examination of the subject through specific questions.	5	
Mentored work	It will be evaluated in the exam of the subject through specific questions or through written reports.	10	
Practices through ICT	They will be evaluated in the exam of the subject through specific questions or through written reports.	10	
Problem and/or exercise solving	They are part of the written exam of the course.	0	
Essay	Delivery of a monographic work on the book "A sand county almanac", by Aldo Leopold. The essay must be submitted one month before the exam date. It must consist of a summary of the book and a section of personal analysis of it.	10	

Other comments on the Evaluation

The competences of the subject will be evaluated in the written exam.

The attendance to the practicals is compulsory.

The unjustified absence of more than one practical implies a negative evaluation. The monographic work on the book by Aldo Leopold is an essential condition for the evaluation, and must be submitted at the most one month before the exam.

Dates of exams:

1st period: 21 May 2020, 12 h

2nd period: 9 July 2020, 16 h

The official dates and any subsequent modification are available on the web http://forestales.uvigo.es/gl/

Sources of information Basic Bibliography Leopold, Aldo, A sand county almanac (versión española: Una ética de la tierra), Oxford University Press, 1949 Complementary Bibliography Primack, R.B. & Description a la Biología de la Conservación, Ariel, 2002 Cordero Rivera, A. (Editor), Proxecto Galicia, Ecoloxía. Volumen 45. Conservación I., Hércules de Ediciones, 2005 Hunter, M.L., Fundamentals of Conservation Biology, Blackwell Science, 2002 Sutherland, W.J., The Conservation Handbook: Research, Management and Policy, Blackwell Science, 2000 Shafer, C. L., Nature Reserves, Smithsonian Institution Press, 1990 James P. Gibbs, Malcolm L. Hunter, Jr., Eleanor J. Sterling, Problem-solving in conservation biology and wildlife management: exercises for class, field, and laboratory, 2, Blackwell Science, 2008

Recommendations

Subjects that it is recommended to have taken before

Forestry Ecology/P03G370V01402

Contingency plan