



## IDENTIFYING DATA

### Forest and pasture management

Subject	Forest and pasture management			
Code	P03G370V01704			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	1st
Teaching language	Spanish Galician			
Department	Natural Resources and Environment Engineering			
Coordinator	Valero Gutiérrez del Olmo, Enrique María			
Lecturers	Valero Gutiérrez del Olmo, Enrique María			
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Web	<a href="http://http://webs.uvigo.es/mchamorro/">http://http://webs.uvigo.es/mchamorro/</a>			
General description	(*)Coñecer as bases ecolóxicas que rexen o funcionamento natural dos diversos sistemas pastorais e silvopastorais. Analizar a estrutura, manexo e xestión dos devanditos sistemas silvopastorais			

## Competencies

Code	
B1	Ability to understand the biological, chemical, physical, mathematical and representation systems necessary for the development of professional activity, as well as to identify the different biotic and physical elements of the forest environment and renewable natural resources susceptible to protection, conservation and exploitations in the forest area.
B11	Ability to characterize the anatomical and technological properties of wood and non-timber forest raw materials, as well as the technologies and industries of these raw materials.
C8	Knowledge of the bases and biological foundations of the plant field in engineering.
C15	Ability to know, understand and use the principles of: forest botany.
C17	Ability to know, understand and use the principles of silviculture.
C27	Ability to know, understand and use the principles of: prevention and fight against forest fires.
C35	Ability to know, understand and use the principles of: pasciculture and agroforestry systems.
D5	Capacity for information management, analysis and synthesis
D6	Organization and planning capacity
D8	Ability to solve problems, critical reasoning and decision making

## Learning outcomes

Expected results from this subject	Training and Learning Results		
New	B1	C8	D5
	B11	C15	D6
		C17	D8
		C27	
		C35	

## Contents

Topic
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INTRODUCTION TO PASTORING SYSTEMS.  
CONDITIONING AND IMPROVEMENT OF PASTURES

SUBJECT 1: General silvipastoral concepts. Basic pastoral management.

SUBJECT 2: The vegetal component of the grazing system. Pastoral classification systems

SUBJECT 3: Packaging and improvement of pastures. I Rozas. The burning. Enclosures.

SUBJECT 4: Packaging and improved pastures II: Limestone amendments. Fertilization. Irrigation and drainage.

PASTURE USE. PASCICOLOGICAL SPECIES

SUBJECT 5: Basic concepts: grazing. Segá. Nutritional value: Quantity. Bromatológico value and palatability.

SUBJECT 6: Management of grazing systems and livestock. The quantification of production and storage

SUBJECT 7: Control of livestock density. Grazing and control of plant fuels. Masses of trees and pastures. Ecological effects.

SUBJECT 8: Classification of silvipastoral systems.

SUBJECT 9: Main pasture species.

THEME OF LABORATORY PRACTICES

SUBJECT 1P: recognition of plant species of the main genera of grasses and legumes of pastoral interest.

SUBJECT 2P: Description of species of pastoral interest using transparencies and slides.

SUBJECT 3P: Classification of plant species with taxonomic keys.

**Planning**

	Class hours	Hours outside the classroom	Total hours
Classroom jobs	10	25	35
Studies excursion	25	10	35
Lecturing	40	35	75
Objective questions exam	3	0	3
Practices report	1	0	1
Systematic observation	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**

	Description
Classroom jobs	1. Formulation and resolution of exercises on real situations. 2. Simulation of management over the territory.  To make a herbarium with the main purpose of the herbarium is to serve to study the main grasses and legumes of our environment
Studies excursion	Collect and identify grasses and legumes.
Lecturing	Identify Grasses and legumes of silvipastoral interest

**Personalized attention**

Methodologies	Description
Lecturing	
Classroom jobs	
Studies excursion	
Tests	Description
Objective questions exam	

**Assessment**

Description	Qualification	Training and Learning Results

Classroom jobs	(*)(*) Confeción dun Herbario	10
Studies excursion	(*)(*) Recoñecemento e identificación en campo de especies de interese pascícola	10
Lecturing	(*) (*) Recoñecemento de especies pascícolas	10
Objective questions exam	(*) Recoñecer os coñecementos adquiridos	70

## Other comments on the Evaluation

### Sources of information

#### Basic Bibliography

#### Complementary Bibliography

SAN MIGUEL, A., **Pastizales Naturales Españoles,**

RIGUEIRO, A., **Pastoreo controlado en los bosques gallegos,**

SAN MIGUEL, A., **La dehesa Española,**

ETIENNE, M., **Western European Silvopastoral Systems,**

GONZALEZ HERNANDEZ, P., **Estudio de las formaciones arboladas y arbustivas como base para su  
aprovechamiento cinegético,** Tesis doctoral inédita,

RIGUEIRO, A., **La utilización del ganado en el monte arbolado gallego, un paso hacia el uso integral del monte,**  
En: Estudios sobre prevención y efectos ecológicos de los incendios forestales, 61-78,

MONTOYA, J. M., **Pastoralismo Mediterráneo,**

SILVA, F. J., **Prácticas agroforestales en pinares y eucaliptales atlánticos,**

KNOWLES, R. L. & CUTLER, T. R., **Integration of Forestry and Pastures in New Zealand,**

### Recommendations

#### Subjects that continue the syllabus

Biology: Plant Biology/P03G370V01201

Forestry Ecology/P03G370V01402

#### Subjects that are recommended to be taken simultaneously

Forestry/P03G370V01401

Forest management/P03G370V01605

#### Subjects that it is recommended to have taken before

Botany/P03G370V01303

Edaphology/P03G370V01302