

**Course teaching guide**

Course	SILVICULTURE and BIODIVERSITY		
Subject area	FORESTRY		
Module	ELLECTIVE		
Degree	DEGEREE IN FOREST ENGINEERING (Grado en Ingeniería Forestal y del Medio Natural)		
Curriculum	449	Code	42207
When taught	2 nd period	Type/Category	ellective
Level/Cycle	BACHELOR'S DEGREE	Year	4
ECTS Credits	3		
Language of instruction	english		
Teacher/s in charge	José A. Reque Kilchenmann (1) http://sostenible.palencia.uva.es/users/requekch Pablo Martín-Pinto (1) http://sostenible.palencia.uva.es/users/pmpinto		
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Tutorial hours	6		
Department	1.PLANT PRODUCTION & FOREST RESOURCES,		



GENERAL SCOPE

The subject focuses on multifunctional silviculture understood under a biodiversity point of view. That is, silviculture focused on biodiversity conservation in forestry. The students will participate actively in the diagnosis of special study cases and present the basis of a silviculture management program for a special case.

GENERAL OBJECTIVES

- 1) Stand assessment and typing for biodiversity conservation. (1,5 ects). In this unit, the students will learn to manage full ecological information needed to prepare an adequate silvicultural diagnosis.

- 2) Silvicultural strategies for biodiversity conservation in forestry (1,5 ects)

PROGRAMME TOPICS

1. Forest and stand diagnosis and biodiversity
2. Silvicultural systems and biodiversity
3. Silvicultural treatments and biodiversity
 - a. Regeneration
 - b. Tending
4. Forestry and biodiversity at the microstand level

ASSESSMENT

- Course requirements include participation in the classes (40%), presentation of the silviculture project (40%), and final exam (20%).
- Active participation in classes will be compulsory.

TEACHING METHODS & WORK PLAN

Activities		Personal work	
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Theory	10	Reviewing concepts	15
Labs and travels	20	Practical work	30
TOTAL	30	TOTAL	45

Practical Classes:

- Laboratory classes to understand prescribed fire behavior.
- Technical fieldtrip to analyze real silvicultural treatments to reduce fire effects.
- Technical fieldtrip to research permanent net-plots on fungal diversity and production.

Personal work:

- Reviewing concepts
- Personal oral presentation and poster

ABILITIES TO BE DEVELOPPED

GENERAL ABILITIES:

- To be able to work in cross-disciplinary and multi-ethnic groups
- To develop interpersonal relations, recognizing and appreciating other cultures and habitats as well as diversity and multiculturalism
- To know and apply knowledges in practice, analyzing, summarizing, organizing & planning

SPECIFIC ABILITIES

- To give scientific knowledge from different fields that allow to face challenges and specific needs of silviculture in forests and biodiversity conservation
- To develop and design silviculture strategies focused on biodiversity conservation

TEACHING RESOURCES

- **NOTICE:** Specific updated resources for each section will be available weekly on UVA-Moodle platform
- www.silviweb.wikispaces.com
- www.fire.org





Professor's *Curriculum vitae*

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