



Course teaching guide / Proyecto docente de la asignatura

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 . semester	Type/Category	elective
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)

Relationship with the Academic Program

The course will develop a broad range of insights useful to forestry and natural resources students.

Pre-requisites

There are not pre-requisites for the subject, although Biology, Dendrology, Botany, Ecology, Climatology and Soil Sciences may be useful.

English college reading and writing is required.

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



The General competences (G1 to G27) will be addressed on a global basis, and, particularly, efforts will be made to the compliance of:

G3 Be able to analyze and synthesize.

G4 To be capable of organizing and of planning.

G5 Be able to communicate effectively, orally and in writing, with both internal audiences.

G15 To show critical reasoning.

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
5. Non woody biodiversity assessment

ASSESSMENT

- Course requirements include participation in the classes (40%), presentation of the silviculture project (40%), and final exam (20%).
- Group assignments will be individually evaluated, according to criteria defined for each task.
- Written assignment and class presentation are mandatory. It is not possible to pass the course with final **examination only**.
- Active participation in classes will be compulsory.

COURSE POLICIES

- **Attendance:**

Lectures form a core component of this course. Students must ensure that they are available to attend lectures and arrive with punctuality. They should pay close attention to the class schedule and read the material prior to class. They are welcome to share new ideas during class and are encouraged to read related papers.



- **Technology in the classroom:**

No cellphones are allowed. Please, turn-off your cell phone prior to the start of class. You will be asked to leave the course for the day if you are using your phone.

- **Policy on Academic Ethics and Honesty:**

The University of Valladolid (UVa) regards cheating as a serious academic offence. Anyone caught cheating will automatically receive a 0/10 for the quiz/exam/assignment, and will be reported to the dean. Your responsibility, besides maintaining a high standard of personal honesty, includes taking precautions to prevent others from copying your work. A student's assessed work may be reviewed against electronic source material using computerised detection mechanisms.

TEACHING METHODS & WORK PLAN			
Activities		Personal work	
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

TEACHING RESOURCES

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



Professor's *Curriculum vitae*

José A. Reque Kilchenmann

<http://sostenible.palencia.uva.es/users/requekch>

Pablo Martín-Pinto

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FINAL CONSIDERATIONS

- General competence *G3 Be able to analyze and synthesize* will be graded with tests, final exam and written assignment.
- General competence *G4 To be capable of organizing and of planning* will be graded with the written assignment and the oral presentation.
- General competence *G5 Be able to communicate effectively, orally and in writing, with both internal audiences* will be graded with the oral presentation.
- General competence *G15 To show critical reasoning* will be graded throughout the course.