



Course teaching guide / Proyecto docente de la asignatura

Course	FORESTRY and BIODIVERSITY		
Subject area	FORESTRY		
Module	ELLECTIVE		
Degree	DEGEREE IN FOREST ENGINEERING (Grado en Ingeniería Forestal y del Medio Natural)		
Curriculum	449	Code	47134
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		
Contact details (e-mail, telephone no....)	jose.reque@uva.es ; tlf. extension 8422 (office: E- pmpinto@uva.es ; tlf. Extension 8473 (office: E- 205)		
Tutorial hours	6		
Department	1.PLANT PRODUCTION & FOREST RESOURCES,		
Fecha de revisión por el comité del título	June 2026		



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: stand and forest level
3. Silvicultural treatments and biodiversity:
stand level
 - a. Regeneration
 - b. Tending
 - c. specific treatments and interventions: wildfire prevention, habitat conservation, protection,
4. Forestry and biodiversity at the microstand level
5. Non woody biodiversity assessment

ASSESSMENT

- 📌 Course requirements include participation in the classes (30%), presentation of the different class projects (30%), and final exam (40%).
- 📌 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.

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

The University of Valladolid (UVa) regards cheating and plagiarism 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 h		
Labs and travels	10 h		
Continuous grading & classwork	10 h		

Final grading results of the formula:

CLASS PARTICIPATION and ATTENDANCE (30%) + CLASS REPORTS AND PRESENTATIONS (30%) + FINAL EXAM (40%) = Final Grade

Practical Classes:

- Laboratory – seminar classes
- Technical fieldtrip to analyze real silvicultural treatments
- Technical fieldtrip to research permanent-plots

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

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

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.

ADENDUM TO THE TEACHING GUIDE

Program topics

Program topics are in accordance with those of the ordinary teaching guide

Didactic methods and methodological principles

The class program will be in accordance with the academic calendar of the ordinary course. The presential classes will be substituted by synchronic telematic courses (videoconference) or asincronic clases. In the case of asincronic courses the didactic materials will be published in the learning platform under labels indicating the day and topic of the lecture. All the assignments will be posted and uploaded on the learning platform. The field courses will be substituted by virtual tours.

Working plan

The working plan is in accordance with plan of the ordinary teaching guide

Grading system and grading characteristics

The grading system is in accordance with system of the ordinary teaching guide