



## Course teaching guide / Proyecto docente de la asignatura

<b>Course</b>	SILVICULTURE and BIODIVERSITY		
<b>Subject area</b>	FORESTRY		
<b>Module</b>	<b>ELLECTIVE</b>		
<b>Degree</b>	DEGEREE IN FOREST ENGINEERING (Grado en Ingeniería Forestal y del Medio Natural)		
<b>Curriculum</b>	449	<b>Code</b>	42207
<b>When taught</b>	2 <sup>nd</sup> . semester	<b>Type/Category</b>	elective
<b>Level/Cycle</b>	BACHELOR'S DEGREE	<b>Year</b>	4
<b>ECTS Credits</b>	3		
<b>Language of instruction</b>	english		
<b>Teacher/s in charge</b>	José A. Reque Kilchenmann (1) <a href="http://sostenible.palencia.uva.es/users/requekch">http://sostenible.palencia.uva.es/users/requekch</a> Pablo Martín-Pinto (1) <a href="http://sostenible.palencia.uva.es/users/pmpinto">http://sostenible.palencia.uva.es/users/pmpinto</a>		
<b>Contact details (e-mail, telephone no....)</b>	<a href="mailto:requekch@pvs.uva.es">requekch@pvs.uva.es</a> ; tlf. extension 8422 (office: E- <a href="mailto:pmpinto@pvs.uva.es">pmpinto@pvs.uva.es</a> ; tlf. Extension 8473 (office: E- 205)		
<b>Tutorial hours</b>	6		
<b>Department</b>	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.

<b>TEACHING METHODS &amp; WORK PLAN</b>			
<b>Activities</b>		<b>Personal work</b>	
Theory	20		
Labs and travels	20		
Continuous grading	50		
Active participation	10		

Final grading results of the formula: Theory\*0.1 + Labs and travels\*0.2 + Continuous grading \* 0.5 + Active participation + 0.1

Practical Classes:

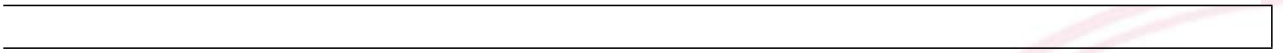
- Laboratory classes to understand prescribed fire behavior.
- Technical fieldtrip to analyze real silvicultural treatments to reduce fire effects.
- Technical fieldtrip to research permanent net-plots on fungal diversity and production.

Personal work:

- Reviewing concepts
- Personal oral presentation and poster

<b>TEACHING RESOURCES</b>
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- **NOTICE:** Specific updated resources for each section will be available weekly on UVA-Moodle platform
- [www.silviweb.wikispaces.com](http://www.silviweb.wikispaces.com)
- [www.fire.org](http://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**

#### **Programme topics**

Programme 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 clases will be substituted by sincronic 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



Universidad de Valladolid

