

Plan 903 SEMESTRE INTERNACIONAL DE LA ETS INGENIERIAS AGRARIAS
 Asignatura 75027 FORESTRY AND CLIMATE CHANGE

Tipo de asignatura (básica, obligatoria u optativa)

ELECTIVE

Créditos ECTS

3

Competencias que contribuye a desarrollar

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.

Objetivos/Resultados de aprendizaje

- Ability to design, direct and apply silvicultural treatments to mitigate climate change and silvicultural treatments adapted to changing environmental situations.

Contenidos

Climate change: variations of climate and human impact on climate. Protocols and agreements at regional, national and international level. The Kyoto Protocol and its extensions. Forest systems and carbon flows. Impacts of climate change on forests and forestry. Quantification of carbon stored in forests. Adaptation to climate change through forest management. Mitigation of climate change through forest management. Forest Projects for Clean Development Mechanisms (CDM) and Reducing Emissions from Deforestation and Reduced Degradation (REDD +).

Principios Metodológicos/Métodos Docentes

A combination of lectures, students' active discussion and personal project are used in this course. Students will be encouraged to share thoughts and opinions. Participation and interaction with other will be required.

Criterios y sistemas de evaluación

Each student will complete an individual project. Instructions will be provided at the beginning of the course. The project will be a Mitigation project adapted to carbon market requirements. A short, 10 minutes, oral presentation of your report is also mandatory.

Additionally a short report about biomass equations elaborations will be required.

Student Evaluation

Percentage on the final course grade

Comments

Intermediate reports

10

Writing assignment

40

Final Exam

50

Grading Criteria

Written assignment and class presentation are mandatory. It is not possible to pass the course with final examination only.

Course Policies

- 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.

Recursos de aprendizaje y apoyo tutorial

- BRAVO, F., LEMAY, V., GADOW, K. VON, JANDL, R. (Eds) 2017. Managing Forest Ecosystems: The Challenge of Climate Change. Springer. 2nd Edition
- Robinson, A.P., Hamman J.D. 2011. Forest Analytics with R: An Introduction. Springer

Lecture powerpoints will be posted on the e-campus (UVa campus virtual)

Additional readings and resources will be delivered to the students through the e-campus (UVa campus virtual)

Calendario y horario

Schedule will be posted at <http://www5.uva.es/etsiiaa/>

Tabla de Dedicación del Estudiante a la Asignatura/Plan de Trabajo

In Class	
Hours	
Outside Class	
Hours	
Lectures	
10	
Preparation for assessment	
30	
Labs	
15	
Preparation of writing assignment.	
11	
Oral Presentations	
5	
Preparation of oral presentation	
4	
Total in class	
30	
Total outside class	
45	

Responsable de la docencia (recomendable que se incluya información de contacto y breve CV en el que aparezcan sus líneas de investigación y alguna publicación relevante)

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Curriculum Vitae:

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

https://www.researchgate.net/profile/Felipe_Bravo4

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Idioma en que se imparte

English