

1. COURSE TITLE

Environmental Economics and Policy Analysis

1.1. Course number

SSEB-E01

1.2. Content area

Environmental Economics, Environmental Policy, Environmental Management, Public Economics

1.3. Course level

Advanced Bachelor or Master

1.4. Language

English

1.5. Prerequisites

Previous microeconomics coursework is recommended. Interested students without that background should consult the instructor to check if their training is appropriate for successfully taking this course.

1.6. Minimum attendance requirement

Attendance is mandatory. Minimum attendance to pass the course is 80%.

1.7. Faculty data

Prof. Dr. Miguel Buñuel

Facultad de Ciencias Económicas y Empresariales

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Office hours: By appointment.

1.8. Course objectives

This subject studies the main issues related to public environmental policies and management. In particular, the course deals with the role of the Public Sector for internalizing environmental externalities through public policies. The subject also studies the valuation of the benefits and costs of those policies. Other issues that will be analyzed in depth are the following: Environmental taxation and ecological tax reforms, climate change economics, and some applications.

As a result, students will be able to understand the justification and effects of environmental public policies, as well as to formulate them, and analyze them. Students will also develop useful abilities for their professional life, and they will learn methodological tools valuable for careers in the public and private sectors or in Academia.

1.9. Course contents

01. Introduction
02. The Theory of Externalities: Economics of Pollution Control
03. Evaluation of the Benefits and Costs of Environmental Policies
04. Environmental Taxation and Ecological Tax Reforms
05. Economics of Climate Change
06. Further applications

1.10. Course bibliography

Buñuel, Miguel (forthcoming): *The Use of Economic Instruments in Environmental Policy*, Madrid: EnvEco Publishing.

Lewis, Lynne, and Thomas H. Tietenberg (2020): *Environmental Economics and Policy*, 7th edition, Abingdon, Oxon, and New York, NY: Routledge.

Complementary material will be provided through Moodle (UAM's web platform).

2. Teaching methodology

Teaching activities requiring students' attendance will be the following:

1. Theoretical lectures and problem-solving sessions: Theoretical lectures will be based upon the materials provided to students, and PowerPoint presentations. Theoretical lectures will be combined with problem-solving sessions, which will apply the concepts and techniques presented in the former. In both cases, participation will be encouraged.
2. Guest lectures, visits to institutions and field trips.
3. Optional: Non-compulsory sessions with one or several students during office hours.

Students' activities not requiring attendance will be the following:

1. Personal study for preparing lectures, homework, and exams.
2. Students will complete homework assignments, which will be delivered electronically through Moodle.
3. Two take-home exams will be delivered electronically through Moodle.

3. Student workload

ACTIVITIES	HOURS	ECTS	%
With attendance	60	2.40	40.00
Theoretical lectures and problem-solving sessions	40	1.60	26.66
Guest lectures, visits to institutions and field trips	20	0.80	13.33
With no attendance	90	3.60	60.00
Personal study and homework	45	1.80	30.00
Personal study and exams	45	1.80	30.00
TOTAL	150	6.00	100.00

4. **Evaluation procedures and weight of components
in the final grade**

PROCEDURE	% GRADE
Attendance and participation	10.00
Homework 1	12.50
Homework 2	12.50
Take-home exam 1	20.00
Homework 3	12.50
Homework 4	12.50
Take-home exam 2	20.00
TOTAL	100.00