

Environmental Economics

Course title – Intitulé du cours	Environmental Economics
Level / Semester – Niveau /semestre	M1 / S1
School – Composante	Ecole d'Economie de Toulouse
Teacher – Enseignant responsable	Stefan Lamp
Lecture Hours – Volume Horaire CM	15
Course Language – Langue du cours	English

Teaching staff contacts – Coordonnées de l'équipe pédagogique :

Stefan Lamp

Office T.313

Email : stefan.lamp@tse-fr.eu

Office hours : by email appointment

Course Objectives – Objectifs du cours :

This course introduces students to environmental economics. It covers the basic principles of environmental economics and discusses environmental problems and how they can be addressed with policies. The course will introduce basic economic theory of environmental economics (part 1) and will then focus on recent applications, with a particular focus on climate change as well as energy markets (part 2).

COURSE OUTLINE:

Part 1: An Introduction to Environmental Economics (6 hours)

- a) What is Environmental Economics?
- b) Efficiency and Market Failure.
- c) Public Goods and Externalities.
- d) Pigouvian Prices and Property Rights.

Part 2: Applications (9 hours)

- a) Carbon Pricing
- b) Health and the Environment
- c) Energy and Electricity Markets
- d) Transportation: Electric Vehicle Adoption
- e) Behavioral Environmental Economics

Prerequisites – Pré requis :

Good understanding of intermediate microeconomics. Intermediate knowledge of applied econometrics.

Practical information about the sessions – Modalités pratiques de gestion du cours :

Use of laptops, tables, cell phones, etc., is welcome if used for course purposes only. Violations will result in such devices being banned for all students during lectures.

Grading system – Modalités d'évaluation :

There will be a final (written) exam (20 points max). Students are expected to attend all lectures. Penalty for not attending result in a max 4 points deduction of the final grade.

More details on the grading provided on the course page.

Bibliography/references – Bibliographie/références :

The first part of the course follows standard text books in environmental economics. Students can choose any textbook on the topic. A few examples of textbooks are:

- Nick Hanley, N., Shogren, J., and White, B., Introduction to Environmental Economics, Oxford University Press, 2nd edition, 2013.
- Kolstad, C.D., "Intermediate Environmental Economics", Oxford University Press, International edition, 2nd edition, 2011.
- Phaneuf, D.J. and T. Requate, "A Course in Environmental Economics – Theory, Policy, and Practice", Cambridge University Press, 2017.

Required readings in addition to the textbooks consists of published scientific articles. Mandatory readings (one per class for part 2 of the course) will be made available through the Moodle course page together with lecture notes, and any exercises.

Session planning – Planification des séances

M1 Eco, Applied Eco 2023/2024 – CM Environmental Economics						
Class 1	Thursday 07/09/2023	01h30	15h30	17h00	Introduction	Amphi Marsan
Class 2	Thursday 14/09/2023	01h30	15h30	17h00	Social Choice, Efficiency, Market failures	Amphi Marsan
Class 3	Thursday 21/09/2023	01h30	15h30	17h00	Welfare, Markets, Public goods and Externalities	Amphi Marsan

Class 4	Thursday 28/09/2023	01h30	15h30	17h00	Pigouvian Prices and Property Rights	Amphi Marsan
Class 5	Thursday 05/10/2023	01h30	15h30	17h00	Application : Carbon Pricing	Amphi Marsan
Class 6	Thursday 12/10/2023	01h30	15h30	17h00	Guest Lecture : Jason Wong	Amphi Marsan
Class 7	Thursday 19/10/2023	01h30	15h30	17h00	Application : Energy & Electricity Markets	Amphi Marsan
Class 8	Thursday 26/10/2023	01h30	15h30	17h00	Application : Renewable Energy Policy	Amphi Marsan
Class 9	Thursday 09/11/2023	01h30	15h30	17h00	Guest Lecture : Jean-Francois Fournel	Amphi Marsan
Class 10	Thursday 16/11/2023	01h30	15h30	17h00	Application : Behavioral Env. Economics	Amphi Marsan

Distance learning – Enseignement à distance :

Additional materials will be provided on the moodle course website. Invited presentations might be held online (Zoom).