



Advanced Environmental Economics

Course title - Intitulé du cours	Advanced Environmental Economics
Level / Semester - Niveau /semestre	M2 / S2
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	REYNAERT Mathias - AMBEC Stefan
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	0
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

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Course's Objectives - Objectifs du cours :

Over the last two centuries, the development of the world economies, and the associated demographic changes, have led to profound impacts to the environment: resources are affected, in quantity and in quality, to such an extent that the whole functioning of our climate and of our ecosystems is changing, with important consequences for our health and our way-of-life. Environmental Economics is the branch of Public Economics that studies such phenomena. The aim of this class is to introduce PhD students to the research frontier in environmental economics. The class will cover the set of problems that environmental policies are trying to solve (market failures, asymmetric information, policy design), the theoretical properties of regulations (tax, quotas, standards, subsidies, nudges, ...); and the empirical tools that economists use in order to empirically evaluate the extent of the market failures and the effects of policies. On each of these topics, we will present and discuss papers that are at the frontier of the literature and will discuss the remaining unanswered questions that could make nice topics for PhD dissertations in environmental economics. At the end of the class, students should be able to formulate a research project at the frontier of the literature in environmental and resource economics.

Prerequisites - Pré requis :

Good knowledge of intermediate microeconomics, standard econometric methods, and basic mathematics for economists.

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

Students will be expected to read the papers discussed in class in advance and to actively participate in the discussions.

Grading system - Modalités d'évaluation :

Evaluation is based on:

- A biweekly referee report and class discussion of a paper (50%)
- A written research proposal and oral presentation of the proposal (50%)

Bibliography/references - Bibliographie/références :

Lecture notes and papers will be posted on Moodle.

Session planning - Planification des séances :

Session planning:

Estimating the economic effects of global warming

Estimating the economic effects of pollution

Policy instruments: standards, taxes and tradable permits

Innovation

Asymmetric information

Environmental regulations and imperfect markets

Monitoring and enforcement

Political economy of environmental regulation

Energy transition

Green labels and nudges

Topic TBD: deforestation, water, adaptation...