

Course Name :	Fundamentals and policies for a greener economy
Degree :	Master 2 ERNA
Teacher(s) :	Philippe Bontems
Semester :	1
Teaching Assistant :	
Course hours Nb:	30
Tutorials hours Nb:	0

OBJECTIVES :

This course provides economic methods and tools to address environmental issues in economics at the graduate level. It analyzes policy instruments to mitigate pollution from economic activities, to preserve biodiversity and natural resources in different contexts. It also deals with green business strategies.

The course combines economic analysis with investigations on various issues such as water and air pollution, waste management and climate change. The economic background will be presented in class. It is motivated and illustrated by real-word applications. The final goal is to posit policy recommendations for addressing environmental problems.

The lectures will be complemented by problems to be solved by students. A Problem set will be provided each lecture. It is strongly recommended to work on the problem set before the next lecture.

COURSE OUTLINE:

The course will cover the following topics:

Fundamentals of Environmental Regulation

Choice of instruments: emission standards, tax or permits

Diffuse and stock pollution (space and time)

Pollution regulation and market power

General equilibrium and environmental taxes

Innovation and productivity

Environmental risk

Common-pool resources

International environmental problems

REQUIREMENT :

Good knowledge of intermediate microeconomics and basic mathematics for economists.

TEXTBOOKS :

Lecture slides and problem sets will be posted.

I will borrow from the following textbooks:

Baumol W.J. and W.E. Oates: The theory of environmental policy, Cambridge University Press 1988

Kolstad C.D.: Environmental Economics Oxford University Press 2000

Sterner, T. and J. Coria: Policy Instruments for Environmental and Natural Resource Management, RFF Press 2012

Phaneuf D. and T. Requate: A Course in Environmental Economics, Cambridge University Press 2016

as well as from research and policy papers on the topic. References will be available on the slides and on Moodle.

Other useful books:

Antweiler W Elements of Environmental Management, University of Toronto Press 2014

Anderson T. and G. Libecap Environmental Markets, Cambridge University Press 2014

GRADING POLICY :

Mid-term exam (30%), final exam (60%) and participation in class (10%). The exams include knowledge and understanding questions and problems.