

COURSE OUTLINE

ENVIRONMENTAL ECONOMICS : APPLICATIONS

Economic valuation of environmental damages and analysis of environmental policies

DPT OF ECONOMICS, FRIBOURG UNIVERSITY

14h15 – 17h00, PER 21 G230

Lecture given by

Dr. David Maradan, maradan@ecosys.com

Chapter 1 : Introduction

- a) Theoretical basis of environmental economics
- b) Sustainable development in economics

Chapter 2: Growth and the Environment

- a) Theoretical analysis of the relationship between economic growth and the environment
- b) Application: meta-analysis of the Environmental Kuznets Curve

Chapter 3 : Economics valuation of the Environment

- a) Introduction: theoretical aspects
- b) Economics valuation of the environment: methodologies
- c) Applications

Chapter 4 : Cost-Benefit (CB) Analysis and the Environment

- a) Framework of CBA
- b) Applications

Chapter 5 : Environmental policies

- a) Introduction: theoretical aspects
- b) Acceptability of environmental policies
- c) Implementation of environmental policies
- d) Applications: agriculture, energy, fisheries
- e) Ecological fiscal reform
- f) Applications: Trading heat - Geneva Buildings

Chapter 6 : EMergy Analysis

- a) Theoretical introduction
- b) Emternalities and externalities
- c) Applications: Swiss agriculture, the environmental dimension of trade

Personal / group work

The students have to write a paper (5 – 10 pages max by person) and present it shortly to their counterpart (20 minutes per student). The aim is to explore a new specific issue or add light on a element studied in class. Students may propose a subject/article. A list of subjects will also be proposed. Group works are possible (max 2 people).

Exams

Written exam (90 minutes): 50% of the final grade

Personal work / Group work: 50% of the final grade, members of the same group may get a different grade !

Class documents and news

Available at: <http://www.ecosys.com/index2.php?id=1006>

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Bibliography

Andrea Baranzini et José Ramirez, 2005, "Paying for Quietness: The impact of noise on Geneva rents", *Urban Studies*, 42(4) : 633-646, avril 2005.

Andrea Baranzini et Philippe Thalmann, 2004, *Voluntary Approaches in Climate Policy*, Edward Elgar, Cheltenham, UK, and Northampton, MA, USA

Beat Buergenmeier, 2005, *Economie du Développement Durable*, de Boeck, Bruxelles, deuxième édition

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