Summary
The course will allow students to become familiar with interactions between environmental and socio-economic systems. Group work on real case studies will teach students to analyze problems in a structured way and to manage relevant opportunities and challenges.

Content
1. Introduction à des systèmes environnementaux majeurs
2. Analyse des interactions avec les activités humaines relevantes
3. Connaissance des politiques publiques et internationales
4. Connaissance des instruments volontaires
5. Évaluation et gestion du risque et des opportunités dans des cas concrets
6. Compréhension de la transition vers une société respectueuse des limites de la planète

Keywords
Environment, Public Policies, Case Study, Problem Solving

Learning Prerequisites
Important concepts to start the course
Working in groups on real case studies will be an important part of the course. The groups are formed in the first week of the semester.

Learning Outcomes
By the end of the course, the student must be able to:
• Analyze the interaction between environmental and socio-economic systems
• Assess / Evaluate resulting problems and opportunities
• Develop appropriate strategies and solutions
• Decide which solution should be implemented
• Produce a final report on a case study
• Present the report to the plenary

Transversal skills
• Plan and carry out activities in a way which makes optimal use of available time and other resources.
• Communicate effectively with professionals from other disciplines.

Teaching methods
• Case studies
• Group discussions
• Lectures
• Guest speakers

Expected student activities
Read the indicated literature and discuss it during the course.
Attend the lecture
Work on real case studies in groups: analyze the situation, identify possible solutions and present them.
Write a final report on the case study

Assessment methods
20% Participation
40% Case Study Final Report
40% Written Exam

Supervision
Office hours Yes
Assistant Yes
Forum No

Resources
Bibliography
Procedural issues: students who have limited or no background in environmental policy are suggested to read one of the following books

Mandatory readings: Reading assignments for the main issues discussed in this course are listed in the following.


Additional literature will be distributed or indicated during the semester.

Ressources en bibliothèque

- Overcoming barriers to innovation and diffusion of cleaner technologies
- Climate Change 2014
- The IPAT equation and its variants
- Voluntary environmental agreements: good or bad news for environmental protection
- Environmental regulation
- Confronting the environmental Kuznets curve
- Global water resources: vulnerability from climate change and population growth
- Biodiversity hotspots for conservation priorities
- A safe operating space for humanity