



## Syllabus – Elective Course

Course title:

Introduction to Environmental Science

Credits:

6 ECTS credits

Teaching language:

English

Target students:

Undergraduate students from all study who would like to learn about the physical world in which we live, with a focus on sustainability and protection of natural systems.

Teacher in charge of the course:

KT Moran, P.G.

### COURSE PRESENTATION

Prerequisite:

To take this course, the students should have a good university level and should normally have completed at least one semester at university. They must have some ability to work as a group and be able to communicate easily in English at a standard university level. In other respects, the course is intended to serve a mix of profiles and learning backgrounds for a more diverse international learning experience.

Content:

This course will provide students with an overview of Earth's natural systems and the impacts of human interactions therewith.

Topics to be covered will normally include:

- Scientific Observation and Theory.
- Natural Systems.
- Population Ecology.
- Energy; Renewable and non-renewable.
- Supply and Agricultural Dynamics.
- Waste Management.
- Pollution.
- Climate Change.

Learning Outcomes:

At the completion of this course, students should be able to demonstrate knowledge of general environmental science concepts and be able to:

- Understand basic biological/geological concepts as they relate to environmental science topics.



- Apply the scientific method and interdisciplinary approaches to define and analyze natural conditions and situations from local and global perspectives.
- Engage in problem solving to explore solutions to sustainability issues.
- Identify, analyze, and integrate environmental concepts, theories, and processes to actively participate in discussions related to environmental issues.
- Critically evaluate scientific issues as a basis for informed decision-making.
- Demonstrate competency in analyzing data to interpret results.
- Use laboratory experiences and materials to demonstrate competency with environmental concepts and applications.
- Explain the dynamics of ecosystems and discuss the diverse and complex relationships between humans and the environment.
- Demonstrate the ability to interpret or apply appropriate scientific terminology.
- Engage in collaborative tasks (i.e. work in teams).

## WORKLOAD

*French contact hours = 60 minutes (in some countries/institutions, 1 contact hour = 45-50 minutes)*

Form	Number of hours	Comments
Face-to-face, in-class, on-site learning	39 hours	Class sessions, field trips.
Approximate personal work/homework	15 hours	Project preparation, study, quizzes.
Student total workload	<b>54 hours</b>	

## EDUCATIONAL METHODS

Lecture, discussion, presentations, laboratory activities, sharing of experiences, group work, guided visits, self-directed research, and on-site education. Hybrid course modality.

## RESOURCES

All course materials will be supplied in class. References may be made to the following resources:

- Online Textbook (no cost to student).
- PowerPoint and Video materials.
- Independent Research as assigned.
- Professor Lectures.



## ASSESSMENT

Form	Number and amount	Minimum points possible	20 Point Equivalent
Labs/Exercises	Top 10 of 12 at 30 points each	300	6
Concept Exams	Top 2 of 3 at 100 points each	200	4
Project	Multiple portions, a total of 250 points	250	5
Class Participation	Top 10 of 13 at 20 points each	200	4
Coastal Field Trip	1 at 50 points	50	1
	<b>Total Course Points</b>	<b>1000</b>	<b>20</b>

The course grade is based on total POINTS accrued. No averages or percentages of any kind are used to calculate the grade.

*This syllabus is based on information available at the time of publication (February 2025). Changes may occur.*

*For updated information about course content, please contact us: [lilleprograms@univ-catholille.fr](mailto:lilleprograms@univ-catholille.fr)*