

Syllabus – Elective Course

Course Title: **Introduction to Environmental Science**

Credits:

4 North American 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 to define and analyze natural conditions and situations.
- 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.
- 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	48 hours	39 regular class sessions with lab exercises, and 1 full day field trip
Approximate personal work / homework	33 hours	Project preparation, study, quizzes
Student total workload	80 hours	

EDUCATIONAL METHODS

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

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

<u>Assignment Form</u>	<u>Number and Amount</u>	<u>Maximum Points Possible</u>
Lab Exercises	Top 10 of 12 at 30 points each	300
Concept Exams	Top 2 of 3 at 100 points each	200
Project	Multiple portions, total of 250 points	250
Class Participation	Top 10 of 13 at 20 points each	200
Coastal Field Trip	1 at 50 points	50
	TOTAL COURSE POINTS	1000

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 (December 2024). Changes may occur.

For updated information about course content, please contact us: lilleprograms@univ-catholille.fr