

Ecological challenges for the 21st century

ECTS : 2

Description du contenu de l'enseignement :

The goal of this course is to enable the students to understand the physical, biological, and social mechanisms that drive global warming, the loss of biodiversity, and the chemical impregnation of living environments. We will cover different disciplines: from Physics to Sociology, Biology to History and Economics.

Compétence à acquérir :

At the completion of this course, the students will be able to:

- Understand and analyze the physical, biological, and social mechanisms that drive global warming;
- Understand and analyze the loss of biodiversity and the chemical impregnation of living environments.
- Approach to climate change and the different environmental challenges from an interdisciplinary perspective, combining disciplines from Physics to Sociology, Biology to History, and Economics.

Mode de contrôle des connaissances :

10% participation, 40% Group project, 50% final exam (MCQ)

Bibliographie, lectures recommandées :

Figueres C. & Rivett-Carnac T. (Feb. 2020), "The Future we choose. Surviving the Climate Crisis."

Manilla Press

Planet Under Pressure conference (2012), "Welcome to the Anthropocene". Available from:

<https://www.youtube.com/watch?v=fvgG-pxlobk>

Thunberg, G. "The Climate Book." Penguin Books, 2022

WWF (2022), "How big is your environmental footprint." Available from: <https://footprint.wwf.org.uk/#/>