COURSE DETAIL

ECONOMICS OF THE ENVIRONMENT, NATURAL RESOURCES, AND CLIMATE CHANGE

Country
Denmark

Host Institution
University of Copenhagen

Program(s)
University of Copenhagen

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Economics

UCEAP Course Number
155

UCEAP Course Suffix

UCEAP Official Title
ECONOMICS OF THE ENVIRONMENT, NATURAL RESOURCES, AND CLIMATE CHANGE

UCEAP Transcript Title
ECON ENV NATR RESRC

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description
Using theories and analytical tools from microeconomics and macroeconomics, this course introduces the basic economic concepts relevant for analyzing problems and policies relating to the environment, natural resources, and climate change. Students learn concepts related to the central economic services provided by the environment, the basic theory of optimal management of natural resources, the distinction between weak and strong sustainability, the basic principles for valuation of environmental goods and services, the theory of the environment as a public good, and more. Students apply the standard mathematical method for static optimization subject to constraints to analyze environmental policy problems such as the determination of the optimal level of pollution abatement and the optimal environmental tax rates. This course also covers the application of optimal control theory to solve dynamic optimization problems subject to constraints such as the determination of the optimal extraction of natural resources and the optimal pace of reduction of greenhouse gas emissions. Students explain and present central parts of economic theories and models of the environment, natural resources, and climate change, and apply the theoretical and empirical insights from the course in a critical analysis and discussion of important real-world problems of environmental and climate policy.

Language(s) of Instruction
English

Host Institution Course Number
AØKA08227U

Host Institution Course Title
ECONOMICS OF THE ENVIRONMENT, NATURAL RESOURCES AND CLIMATE CHANGE

Host Institution Course Details

Host Institution Campus Social Sciences
Host Institution Faculty
Host Institution Degree
Host Institution Department Economics
Course Last Reviewed

Print