

# COURSE DETAIL

## ENVIRONMENTAL CHALLENGES IN THE ANTHROPOCENE

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Environmental Studies

**UCEAP Course Number**

121

**UCEAP Course Suffix****UCEAP Official Title**

ENVIRONMENTAL CHALLENGES IN THE ANTHROPOCENE

**UCEAP Transcript Title**

ENVIRONMENTAL CHALLENGE

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

The Anthropocene is a proposed new geological era based on the scientific evidence that human impacts on natural environmental processes now rival geological forces in influencing the trajectory of the planetary system. This course provides insight into contaminant transport and new complex physical interactions between human activities and natural processes. Major topics include energy fundamentals and need for new energy resources, depletion and contamination of natural resources (including minerals, groundwater, air), transport processes in the multimedia environment (advection, diffusion, dispersion, interphase mass transfer, reaction kinetics), as well as introduction to man-made climate change and its ecological and societal implications.

### Language(s) of Instruction

English

### Host Institution Course Number

ESE2001

### Host Institution Course Title

ENVIRONMENTAL CHALLENGES IN THE ANTHROPOCENE

### Host Institution Course Details

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Civil and Environmental Engineering

### Course Last Reviewed

2022-2023

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