

# COURSE DETAIL

## SUSTAINABLE ENERGY TECHNOLOGIES

**Country**

United Kingdom - England

**Host Institution**

Imperial College London

**Program(s)**

Imperial College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Chemical Engineering

**UCEAP Course Number**

158

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

SUSTAINABLE ENERGY TECHNOLOGIES

**UCEAP Transcript Title**

SUSTAINABLE ENERGY

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

The course develops the tools required for the application of new energy and renewable energy systems to the problems faced by climate change and global energy security while transitioning to a zero emissions economy. The focus is on the application of materials for the development of new energy recovery systems such as nanostructured surfaces for solar harvesting, solar fuels, batteries/capacitors, and fuel cells/electrolysers. Biomass as a potential alternative to clean energy is also discussed along with its different scenarios and the associated advantages and risks.

## Language(s) of Instruction

English

## Host Institution Course Number

CENG60017

## Host Institution Course Title

SUSTAINABLE ENERGY TECHNOLOGIES

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Chemical Engineering

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