

# COURSE DETAIL

## ENGINEERING DESIGN 1

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering

**UCEAP Course Number**

109

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

ENGINEERING DESIGN 1

**UCEAP Transcript Title**

ENGINEERING DESIGN 1

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

## Course Description

Design is often regarded as the central creative activity of engineering. This course develops a foundation for the skills of analysis, synthesis, and communication required to develop solutions to open-ended problems. It focuses on three things: (1) understanding an engineering problem, (2) finding a solution to it, (3) communicating that solution to others. This course is predominantly taught through interactive team-based design studio sessions with support from lectures on topics including the philosophy, history, and ethics of engineering design. A series of group activities with mini assessments will cover key skills like research, problem solving, and the graphic, verbal, or written communication of engineering concepts.

### Language(s) of Instruction

English

### Host Institution Course Number

SCEE08011

### Host Institution Course Title

ENGINEERING DESIGN 1

### Host Institution Campus

University of Edinburgh

### Host Institution Faculty

School of Engineering

### Host Institution Degree

### Host Institution Department

[Print](#)