

COURSE DETAIL

ENGINEERING DESIGN

Country

United Kingdom - England

Host Institution

University College London

Program(s)

English Universities, University College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

130

UCEAP Course Suffix**UCEAP Official Title**

ENGINEERING DESIGN

UCEAP Transcript Title

ENGINEERING DESIGN

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course studies engineering design to develop core practical, theoretical, and computational engineering skills, and discusses the role and relationship between them. The course develops a wider appreciation of how engineering design shapes the made world. Given a product brief set by the course tutor, the students are required to design, analyze, build, and test a physical prototype, and then show how it meets the design brief. Students learn to interpret a design brief, design techniques, and methodologies using computational design and analysis tools such as CAD and MATLAB analysis; materials selection; using mechanical tools; and safe workshop practice. Students also design and make a physical prototype and present the analysis, both technical and environmental, that demonstrates the solution to the design brief.

Language(s) of Instruction

English

Host Institution Course Number

MECH0008

Host Institution Course Title

ENGINEERING DESIGN

Host Institution Campus

University College London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

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