

COURSE DETAIL

CIVIL ENGINEERING DESIGN 1

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

120

UCEAP Course Suffix

Y

UCEAP Official Title

CIVIL ENGINEERING DESIGN 1

UCEAP Transcript Title

CIVIL ENGR DESIGN 1

UCEAP Quarter Units

7.50

UCEAP Semester Units

5.00

Course Description

In this course, students develop essential engineering skills, working in groups and using problem-based learning to find solutions to real engineering projects; are inspired and be given the purpose behind the method of turning theoretical teaching into practice; work as a group on the development of conceptual designs and to be a creative “designer”; generate ideas and carry out research to assess the feasibility of design concepts; experience hands-on modelling as ways of communicating ideas; work as a group to plan and manage the construction of a design at a 1:1 scale; develop application of geometric and parametric modelling in design; give and receive critical feedback on designs responses to the developed brief; and reflect on the role of civil engineers as designers and makers. The course is delivered across two intensive weeks during Creative Design where no other teaching takes place. 2 x 1 weeks are Creative Design weeks in which students work as groups to develop civil engineering designs across multiple design scales.

Language(s) of Instruction

English

Host Institution Course Number

CIVE40002

Host Institution Course Title

CIVIL ENGINEERING DESIGN 1

Host Institution Course Details

<https://sway.cloud.microsoft/ZijgY0v1VO0XUitM?ref=Link>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Civil Engineering

Course Last Reviewed

2025-2026

[Print](#)