

COURSE DETAIL

GEOTECHNICS

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

109

UCEAP Course Suffix

Y

UCEAP Official Title

GEOTECHNICS

UCEAP Transcript Title

GEOTECHNICS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

In this course students learn about fundamental soil mechanics and geotechnical engineering; analyze soil origin, composition and variables used to classify soils and assess their state; learn basic concepts related to the one-dimensional flow of water through soils; explain the purpose and basic design principles of building foundations and retaining walls; become familiar with soils, rocks, and the use of geological maps and sketches in desk studies; appreciate the importance of developing a detailed understanding of ground conditions in successful civil engineering; and recognize major geotechnical hazards, plan appropriate site investigations, and develop safe and successful geotechnical design.

Language(s) of Instruction

English

Host Institution Course Number

CIVE40009

Host Institution Course Title

GEOTECHNICS

Host Institution Course Details

<https://sway.cloud.microsoft/Ae4fqjsrSfT9OWyw?ref=Link>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Civil Engineering

Course Last Reviewed

2025-2026

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