Soil Mechanics (CEGE0100)

Description
This module aims to provide knowledge and understanding of fundamental principles of soil mechanics and to teach how to use these principles in civil engineering practice.

Learning outcomes
By the end of the course, the students will be able to:

- describe and classify porous soils and calculate basic properties
- understand the importance of water and apply the effective stress concept
- analyse steady state water flow through soils
- analyse one-dimensional long-term settlements in soils
- understand the deformation behaviour of soils under various conditions
- apply basic Mohr Circle and stress path concepts to describe the failure of soils
- analyse the stability of earth retaining structures.

The students will also have gained the following transferable skills:

- problem solving
- laboratory skills
- presenting information textually and graphically.

Key information

Year: 2019/20
Credit value: 15 (150 study hours)
Delivery: UG L4, Campus-based
Reading List: View on UCL website
Tutor: Dr Beatrice Baudet
Term: Term 2
Timetable: View on UCL website

Assessment

- Written examination (main exam period): 60%
- Coursework: 15%
- Coursework: 15%
- Coursework: 10%

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

Disclaimer: All information correct as of August 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.