

COURSE DETAIL

SOIL MECHANICS

Country

Hong Kong

Host Institution

University of Hong Kong

Program(s)

University of Hong Kong

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

106

UCEAP Course Suffix**UCEAP Official Title**

SOIL MECHANICS

UCEAP Transcript Title

SOIL MECHANICS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

Soil mechanics is a branch of engineering mechanics that describes the behavior of soils. It differs from fluid mechanics and solid mechanics in the sense that soils consist of a heterogeneous mixture of fluids (usually air and water) and particles (usually clay, silt, sand and gravel) but soil may also contain organic solids, liquids, and gasses and other matter. Along with rock mechanics, soil mechanics provides the theoretical basis for analysis in geotechnical engineering. Soil mechanics is used to analyze the deformations of and flow of fluids within natural and man-made structures that are supported on or made of soil, or structures that are buried in soils. Examples applications are building and bridge foundations, retaining walls, dams, and buried pipeline systems.

Language(s) of Instruction

English

Host Institution Course Number

CIVL2106

Host Institution Course Title

SOIL MECHANICS

Host Institution Course Details**Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Civil Engineering

Course Last Reviewed

[Print](#)