

# COURSE DETAIL

## FOUNDATION ENGINEERING

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Civil Engineering

**UCEAP Course Number**

116

**UCEAP Course Suffix****UCEAP Official Title**

FOUNDATION ENGINEERING

**UCEAP Transcript Title**

FOUNDATION ENGR

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course covers foundation engineering. The topics covered include site investigation and interpretation of soil reports, shallow foundations and deep foundations. Students learn how to use simple foundations to distribute vertical loads from the superstructure to the underlying soil formation without overstressing the soil (more complex loading modes to be discussed in advanced courses). The course examines the interpretation of site investigation reports, derivation of relevant design soil properties, selection of sensible foundation type, and verification of capacity and settlement requirements.

## Language(s) of Instruction

English

## Host Institution Course Number

CE3116

## Host Institution Course Title

FOUNDATION ENGINEERING

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Civil & Environmental Engineering

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