

COURSE DETAIL

EARTH PROCESSES FOR ENGINEERING

Country

Australia

Host Institution

University of Melbourne

Program(s)

University of Melbourne

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Engineering

UCEAP Course Number

114

UCEAP Course Suffix**UCEAP Official Title**

EARTH PROCESSES FOR ENGINEERING

UCEAP Transcript Title

EARTH PROCESS: ENGR

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces physical earth processes and their engineering applications and implications. In particular, students focus on engineering aspects of climate, water, and soils as well as their interactions. Simplified modelling and relevant analytical techniques are introduced throughout the subject. Topics include climate and seasonality; carbon cycle, global water cycle, and catchment water cycle; rainfall, infiltration, runoff, and evapotranspiration; catchment processes and stochastic rainfall modelling; soil identification; landscape forming processes; basic soil mechanics; earth engineering stability; and revision.

Language(s) of Instruction

English

Host Institution Course Number

ENEN20002

Host Institution Course Title

EARTH PROCESSES FOR ENGINEERING

Host Institution Campus

Melbourne

Host Institution Faculty

Host Institution Degree

Host Institution Department

Environmental Engineering

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