

COURSE DETAIL

ENVIRONMENTAL SYSTEMS DYNAMICS & MODELLING

Country

Australia

Host Institution

University of Queensland

Program(s)

University of Queensland

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

150

UCEAP Course Suffix**UCEAP Official Title**

ENVIRONMENTAL SYSTEMS DYNAMICS & MODELLING

UCEAP Transcript Title

ENV SYS DYN & MODEL

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines the concepts, theories and techniques required to describe dynamic environmental systems and to develop mathematical models to explore their behavior. Systems thinking and modelling approaches are applied to several important environmental systems and processes including chemical and biological transformations in water and air pollution applications, ecological models and population dynamics, global climate change, water balances in lakes and reservoirs, and energy and mass transfer.

Language(s) of Instruction

English

Host Institution Course Number

ENVE3150

Host Institution Course Title

ENVIRONMENTAL SYSTEMS DYNAMICS & MODELLING

Host Institution Campus

Host Institution Faculty

Civil Engineering

Host Institution Degree

Host Institution Department

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