COURSE DETAIL

NONLINEAR ODES WITH APPLICATIONS Country Australia **Host Institution** University of Sydney Program(s) University of Sydney **UCEAP Course Level Upper Division UCEAP Subject Area(s)** Mathematics **UCEAP Course Number** 129 **UCEAP Course Suffix UCEAP Official Title** NONLINEAR ODES WITH APPLICATIONS **UCEAP Transcript Title**

UCEAP Semester Units

UCEAP Quarter Units

NONLINEAR ODES

4.00

6.00

Course Description

This course examines the theory of systems of ordinary differential equations. The emphasis will not be on finding explicit solutions, but instead on the qualitative features of these systems, such as stability, instability and oscillatory behavior. The applications are from biology, physics, chemistry, and engineering, including population dynamics, epidemics, chemical reactions, and simple mechanical systems.

Language(s) of Instruction

English

Host Institution Course Number

MATH3063

Host Institution Course Title

NONLINEAR ODES WITH APPLICATIONS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics and Statistics Academic Operations

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