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
NONLINEAR ODES

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

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 Course Details
https://www.sydney.edu.au/units/MATH3063

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics and Statistics Academic Operations

Course Last Reviewed
2024-2025

Print