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

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