COURSE DETAIL

NATURAL RESOURCE MATHEMATICS
Country Australia
Host Institution University of Queensland
Program(s) University of Queensland
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 134
UCEAP Course Suffix
UCEAP Official Title NATURAL RESOURCE MATHEMATICS
UCEAP Transcript Title NATRL RESOURCE MATH
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course examines how to apply deterministic differential and difference equation models to real world examples, and how to solve them using numerical methods. it also covers how to quantify system uncertainties with the help of statistical and probabilistic methods. Students will be taught a range of methods that are employed in industry, research, consultancies and government to model complex natural resource problems. In the process, students will learn how certain fundamental mathematical concepts such as critical points, orthogonality, eigenvalues and singularity recur in different mathematical frameworks with different but, invariably, vitally important physical interpretations.

Language(s) of Instruction
English

Host Institution Course Number
MATH3070

Host Institution Course Title
NATURAL RESOURCE MATHEMATICS

Host Institution Course Details

Host Institution Campus
St. Lucia

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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