COURSE DETAIL

MATHEMATICAL COMPUTING

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
127

UCEAP Course Suffix

UCEAP Official Title
MATHEMATICAL COMPUTING

UCEAP Transcript Title
MATH COMPUTING

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course provides an introduction to programming and numerical methods. Topics covered include computer arithmetic and computational errors, solution of nonlinear equations, systems of linear equations, numerical integration and differentiation, interpolation and approximation, initial value problems for ordinary differential equations. This course will cover basic concepts of numerical optimization and applications such as for instance numerical optimization in the rapidly evolving domain of machine learning.

Language(s) of Instruction
English

Host Institution Course Number
MATH3076

Host Institution Course Title
MATHEMATICAL COMPUTING

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

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