

COURSE DETAIL

MATHEMATICS AND COMPUTING 1

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering Mathematics Engineering

UCEAP Course Number

112

UCEAP Course Suffix

Y

UCEAP Official Title

MATHEMATICS AND COMPUTING 1

UCEAP Transcript Title

MATH&COMPUTING 1

UCEAP Quarter Units

12.00

UCEAP Semester Units

8.00

Course Description

This course develops key mathematical and computational skills relevant to the wider mechanical engineering program. Topics include vector algebra, real analysis, limits, curve sketching, series, applications of integration, complex analysis, functions of more than one variable, matrix algebra, second order ordinary differential equations, and vector calculus. Practical implementation through programming is studied to solve problems selected from the topic areas.

Language(s) of Instruction

English

Host Institution Course Number

MECH40008

Host Institution Course Title

MATHEMATICS AND COMPUTING 1

Host Institution Campus

Imperial College London

Host Institution Faculty

Faculty of Engineering

Host Institution Degree

Host Institution Department

Department of Mechanical Engineering

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