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 Course Details
https://www.imperial.ac.uk/mechanical-engineering/study/undergraduate/detailed-...

Host Institution Campus
Imperial College London

Host Institution Faculty
Faculty of Engineering

Host Institution Degree

Host Institution Department
Department of Mechanical Engineering

Course Last Reviewed
2021-2022

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