

COURSE DETAIL

MULTI-VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

122

UCEAP Course Suffix

Y

UCEAP Official Title

MULTI-VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS

UCEAP Transcript Title

CALCULUS&DIFFER EQU

UCEAP Quarter Units

10.00

UCEAP Semester Units

6.70

Course Description

This course introduces more advanced topics in calculus and ordinary differential equations. The course introduces students to multi-dimensional vector calculus and differential operators, and to the calculus of variations and the concept of variational problems. Differential equations play a key role in both pure and applied mathematics. The importance of these ideas is emphasized by the inclusion of a number of applications in physics, engineering, and biology.

Language(s) of Instruction

English

Host Institution Course Number

MATH50004

Host Institution Course Title

MULTI-VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS

Host Institution Course Details

<https://www.imperial.ac.uk/media/imperial-college/faculty-of-natural-sciences/d...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

Course Last Reviewed

2024-2025

[Print](#)