

COURSE DETAIL

SEVERAL VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

126

UCEAP Course Suffix**UCEAP Official Title**

SEVERAL VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS

UCEAP Transcript Title

VAR CALC/DIFF EQUAT

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

On completion of this course, students can manipulate routine algebraic and numerical calculations, such as partial derivatives and derived functions, vectors and vector functions, double and triple integrals, and line and surface integrals, to solve standard problems without explicit prompting; state, use, and derive in good mathematical style the principal theoretical results of the course, such as critical points of functions in several variables, Stokes' theorem and Gauss' [divergence] theorem, to solve unseen problems which extend examples studied; and identify differential equations belonging to some standard classes and choose and apply the appropriate methods for their solution.

Language(s) of Instruction

English

Host Institution Course Number

MATH08063

Host Institution Course Title

SEVERAL VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS

Host Institution Campus

Edinburgh

Host Institution Faculty

School of Mathematics

Host Institution Degree**Host Institution Department**

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