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 Course Details
http://www.drps.ed.ac.uk/23-24/dpt/cxmath08063.htm

Host Institution Campus
Edinburgh

Host Institution Faculty
School of Mathematics

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

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