# COURSE DETAIL

| SEVERAL VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS |
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| **Country**<br>United Kingdom - Scotland |
| **Host Institution**<br>University of Edinburgh |
| **Program(s)**<br>University of Edinburgh |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Mathematics |
| **UCEAP Course Number**<br>126 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>SEVERAL VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS |
| **UCEAP Transcript Title**<br>VAR CALC/DIFF EQUAT |
| **UCEAP Quarter Units**<br>8.00 |
| **UCEAP Semester Units**<br>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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