COURSE DETAIL

HONORS 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
137

UCEAP Course Suffix

UCEAP Official Title
HONORS DIFFERENTIAL EQUATIONS

UCEAP Transcript Title
DIFFERENTL EQUATNS

UCEAP Quarter Units
8.00

UCEAP Semester Units
5.30

Course Description
This is a course on differential equations discussing higher order linear equations, Laplace transforms, systems of First Order Linear ODEs, non-linear systems of ODEs, Fourier Series, use of separation of variables in standard PDEs, and Sturm-Liouville Theory. In the skills section of the course, students work on symbolic manipulation, computer algebra, graphics, and a final project. Python is used in computer labs.

Language(s) of Instruction
English

Host Institution Course Number
MATH10066

Host Institution Course Title
HONORS DIFFERENTIAL EQUATIONS

Host Institution Campus
Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

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