

COURSE DETAIL

HONORS ANALYSIS

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

141

UCEAP Course Suffix**UCEAP Official Title**

HONORS ANALYSIS

UCEAP Transcript Title

HONORS ANALYSIS

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

This is a second course in real analysis at the University of Edinburgh and builds on ideas in the analysis portion of Fundamentals of Pure Mathematics. The course begins with sequences and series of real numbers, introducing the concept of Cauchy sequences and results for bounded sequences. Subsequently, sequences and series of functions are introduced and concepts of uniform convergence and power series are discussed. The concept of Lebesgue integral on real line is then developed. Finally, the rudiments of Fourier series are introduced.

Language(s) of Instruction

English

Host Institution Course Number

MATH10068

Host Institution Course Title

HONOURS ANALYSIS

Host Institution Course Details

<http://www.drps.ed.ac.uk/21-22/dpt/cxmath10068.htm>

Host Institution Campus

Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

Course Last Reviewed

2022-2023

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