

COURSE DETAIL

ANALYSIS 1

Country

United Kingdom - England

Host Institution

University of Sussex

Program(s)

University of Sussex

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

40

UCEAP Course Suffix**UCEAP Official Title**

ANALYSIS 1

UCEAP Transcript Title

ANALYSIS 1

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

Starting from the concept of limit of a sequence, learn how it is possible to give a precise meaning to the concepts of "infinite", "infinitely small", and "infinitely large". Students also learn how to work with series, and understand how these tools can be applied to define limits of functions. Students see some of the concepts that they have covered in school in a new light, and analyze them in great depth. Students learn how to give rigorous proofs of mathematical statements, and how to sketch the graph of a function.

Language(s) of Instruction

English

Host Institution Course Number

G5135

Host Institution Course Title

ANALYSIS I

Host Institution Course Details

<https://www.sussex.ac.uk/study/modules/undergraduate/2024/95086-analysis-1>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

Course Last Reviewed

2025-2026

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