

# COURSE DETAIL

## LINEAR 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**

112

**UCEAP Course Suffix****UCEAP Official Title**

LINEAR ANALYSIS

**UCEAP Transcript Title**

LINEAR ANALYSIS

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

This course introduces students to techniques and tools in modern analysis which have important uses in a variety of areas of analysis, including the study of partial differential equations and Fourier analysis. Students achieve this in the context of linear analysis, introducing normed linear, inner product spaces and their completions, Banach and Hilbert spaces. The structure and geometry of these spaces are studied as well as continuous linear operators acting on them.

## Language(s) of Instruction

English

## Host Institution Course Number

MATH10082

## Host Institution Course Title

LINEAR ANALYSIS

## Host Institution Course Details

<http://www.drps.ed.ac.uk/22-23/dpt/cxmath10082.htm>

## Host Institution Campus

University of Edinburgh

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

School of Mathematics

## Course Last Reviewed

2022-2023

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