# COURSE DETAIL

| INTRODUCTION TO LINEAR ALGEBRA |
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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>111 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>INTRODUCTION TO LINEAR ALGEBRA |
| **UCEAP Transcript Title**<br>INTRO LIN ALGERBRA |
| **UCEAP Quarter Units**<br>8.00 |
| **UCEAP Semester Units**<br>5.30 |

**Course Description**

An introduction to linear algebra, mainly in R^n but concluding with an introduction to abstract vector spaces. The principal topics are vectors, systems of linear equations, matrices, eigenvalues and eigenvectors, and orthogonality. The important notions of linear independence, span and bases are introduced. This course is both a preparation for the practical use of vectors, matrices, and systems of equations and also lays the groundwork for a more abstract, pure-mathematical treatment of vector spaces. Students learn how to use a computer to calculate the results of some simple matrix operations and to visualize vectors.

**Language(s) of Instruction**
English

**Host Institution Course Number**
MATH08057

**Host Institution Course Title**
INTRODUCTION TO LINEAR ALGEBRA

**Host Institution Course Details**
http://www.drps.ed.ac.uk/23-24/dpt/cxmath08057.htm

**Host Institution Campus**

**Host Institution Faculty**
School of Mathematics

**Host Institution Degree**

**Host Institution Department**

**Course Last Reviewed**
2023-2024

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