COURSE DETAIL

INTRODUCTION TO LINEAR ALGEBRA

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
111

UCEAP Course Suffix

UCEAP Official Title
INTRODUCTION TO LINEAR ALGEBRA

UCEAP Transcript Title
INTRO LIN ALGERBRA

UCEAP Quarter Units
8.00

UCEAP Semester Units
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 Campus

Host Institution Faculty
School of Mathematics

Host Institution Degree

Host Institution Department

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