

COURSE DETAIL

LINEAR ALGEBRA II

Country

United Kingdom - England

Host Institution

University of London, Queen Mary

Program(s)

University of London, Queen Mary

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

112

UCEAP Course Suffix**UCEAP Official Title**

LINEAR ALGEBRA II

UCEAP Transcript Title

LINEAR ALGEBRA II

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course is a mixture of abstract theory, with rigorous proofs, and concrete calculations with matrices. The abstract component builds on the theory of vector spaces and linear maps to construct the theory of bilinear forms (linear functions of two variables), dual spaces (which map the original space to the underlying field), and determinants. The concrete applications involve ways to reduce a matrix of some specific type (such as symmetric or skew-symmetric) to as near diagonal form as possible.

Language(s) of Instruction

English

Host Institution Course Number

MTH6140

Host Institution Course Title

LINEAR ALGEBRA II

Host Institution Course Details

<https://qmplus.qmul.ac.uk/course/view.php?id=3078>

Host Institution Campus

Queen Mary, University of London

Host Institution Faculty**Host Institution Degree****Host Institution Department**

School of Mathematical Sciences

Course Last Reviewed

2018-2019

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