

COURSE DETAIL

ALGEBRA II

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

141

UCEAP Course Suffix**UCEAP Official Title**

ALGEBRA II

UCEAP Transcript Title

ALGEBRA II

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

In this course, students study groups (homomorphisms, isomorphisms, normal subgroups, and first isomorphism theorem); fundamental theorem of abelian groups, groups of small order, group actions, Burnside's lemma, and applications; linear algebra (direct sums, quotient spaces); determinants, minimal polynomials, and Cayley-Hamilton theorem; and canonical forms of matrices, Jordan normal form, and rational canonical form.

Language(s) of Instruction

English

Host Institution Course Number

M2PM2

Host Institution Course Title

ALGEBRA II

Host Institution Course Details

<https://www.imperial.ac.uk/computing/current-students/courses/M2PM2/>

Host Institution Campus

Imperial College London

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

Mathematics

Course Last Reviewed

2018-2019

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