# **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 Campus**

Imperial College London

# **Host Institution Faculty**

**Host Institution Degree** 

# **Host Institution Department**

**Mathematics** 

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