COURSE DETAIL

INTRODUCTION TO NUMBER THEORY

Country
United Kingdom - England

Host Institution
King's College London

Program(s)
King's College London

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mathematics

UCEAP Course Number
141

UCEAP Course Suffix

UCEAP Official Title
INTRODUCTION TO NUMBER THEORY

UCEAP Transcript Title
INTRO NUMBER THEORY

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course provides an introduction to elementary number theory and to further develop the algebraic techniques met in "Introduction to Abstract Algebra" (is this italicized or in quotes... seems like the name of a book?). This course prepares students for more demanding modules in number theory and algebra by introducing several new concepts in the concrete setting of rational integers. This course includes a review of divisibility, prime numbers and congruences; residue class rings, Euler's f-function, and primitive roots; quadratic residues and quadratic reciprocity law; irrational and transcendental numbers, sums of squares; and some Diophantine equations.

Language(s) of Instruction

English

Host Institution Course Number

5CCM224A

Host Institution Course Title

INTRODUCTION TO NUMBER THEORY

Host Institution Course Details

https://www.kcl.ac.uk/abroad/module-options/module.aspx?id=51976719-df99-40af-8...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

Course Last Reviewed

2024-2025

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