

COURSE DETAIL

NUMBER THEORY

Country

Australia

Host Institution

University of New South Wales

Program(s)

University of New South Wales

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

143

UCEAP Course Suffix**UCEAP Official Title**

NUMBER THEORY

UCEAP Transcript Title

NUMBER THEORY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines some basic notions and techniques of number theory. It focuses on such topics as divisibility, prime numbers, the arithmetic of residues rings, additive properties of integers and their powers and Diophantine approximations. Some applications of number theory to cryptography will be discussed as well. Students taking this course will develop an appreciation of the basic problems of number theory and will learn the interplay between number-theoretic problems and other areas of mathematics.

Language(s) of Instruction

English

Host Institution Course Number

MATH3431

Host Institution Course Title

NUMBER THEORY

Host Institution Course Details

<https://www.handbook.unsw.edu.au/undergraduate/courses/2026/MATH3431>

Host Institution Campus

Sydney

Host Institution Faculty

Mathematics & Statistics

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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