COURSE DETAIL

NUMBER THEORY

Country
Sweden

Host Institution
Lund University

Program(s)
Lund University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mathematics

UCEAP Course Number
140

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

The course treats multiplicative number theoretic functions, Möbius inversion formula, properties of Euler's totient function, primitive roots and indices, quadratic residues, the Legendre symbol and it's properties, the quadratic reciprocity theorem, representations of integers as sums of squares, number theoretic properties of the Fibonacci sequence, continued fractions, Diophantine approximation.

Language(s) of Instruction
English

Host Institution Course Number
MATM35

Host Institution Course Title
NUMBER THEORY

Host Institution Campus
Lund

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department

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