COURSE DETAIL

ALGEBRAIC STRUCTURES

Country
Sweden

Host Institution
Lund University

Program(s)
Lund University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mathematics

UCEAP Course Number
130

UCEAP Course Suffix

UCEAP Official Title
ALGEBRAIC STRUCTURES

UCEAP Transcript Title
ALGEBRAIC STRUCTURS

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

The course reviews number theory including the fundamental theorem of arithmetic, modular, and arithmetic; groups including definition, basic examples of groups, subgroups, normal subgroups, factor groups, isomorphisms, and homomorphisms, Lagrange's theorem, permutation groups, symmetric and alternating groups, finitely generated Abelian groups; rings including definition, basic examples of rings, isomorphisms and homomorphisms, ideals, factor rings, polynomial rings, factorization of polynomials as products of irreducible polynomials; and fields including characteristic, simple field extensions, finite fields.

Language(s) of Instruction
English

Host Institution Course Number
MATM31

Host Institution Course Title
ALGEBRAIC STRUCTURES

Host Institution Campus
Lund

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department
Math

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