

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 Course Details

<https://www.lunduniversity.lu.se/lubas/i-uoh-lu-MATM31>

Host Institution Campus

Lund

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

Math

Course Last Reviewed

2023-2024

[Print](#)