

COURSE DETAIL

LINEAR ALGEBRA

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

111

UCEAP Course Suffix**UCEAP Official Title**

LINEAR ALGEBRA

UCEAP Transcript Title

LINEAR ALGEBRA

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The overarching goal of the course is for the students to acquire basic knowledge of linear algebra which is necessary for further studies in mathematics and natural sciences. Special emphasis is placed on developing the mathematical theory for vector spaces in a systematic way that contributes to strengthening the students' ability to absorb mathematical text, to conduct mathematical reasoning, to solve problems of both theoretical and applied nature and to communicate mathematics. The course covers Matrices; Determinants; Linear spaces; Euclidean spaces; Linear mappings; Spectral theory; Systems of linear ordinary differential equations; and Quadratic forms.

Language(s) of Instruction

English

Host Institution Course Number

MATB32

Host Institution Course Title

LINEAR ALGEBRA

Host Institution Course Details

<https://kursplaner.lu.se/pdf/kurs/en/MATB32>

Host Institution Campus

Lund

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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