

# 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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