

COURSE DETAIL

ANALYSIS IN SEVERAL VARIABLES 2

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

162

UCEAP Course Suffix**UCEAP Official Title**

ANALYSIS IN SEVERAL VARIABLES 2

UCEAP Transcript Title

ANALYSIS VARIABLS 2

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course is an introduction to vector calculus and a specialization of differential and integral calculus of functions of several variables. The course covers line and surface integrals; Green's formula, Gauss divergence theorem, and Stokes theorem; Basic potential theory. To be eligible for the course, 45 credits in courses in mathematics equivalent to MATA21 Analysis in One Variable (15 credits), MATA22 Linear Algebra 1 (7.5 credits), MATA21 Analysis in Several Variables 1 (7.5 credits), MATB22 Linear Algebra 2 (7.5 credits) and one of the courses NUMA01 Computational Programming with Python (7.5 credits) and MATA23 Foundations of Algebra, (7.5 credits) are required.

Language(s) of Instruction

English

Host Institution Course Number

MATB23

Host Institution Course Title

ANALYSIS IN SEVERAL VARIABLES 2

Host Institution Course Details

<https://kursplaner.lu.se/pdf/kurs/en/MATB23>

Host Institution Campus

Lund

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

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