

COURSE DETAIL

ORDINARY DIFFERENTIAL EQUATIONS 1

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

139

UCEAP Course Suffix**UCEAP Official Title**

ORDINARY DIFFERENTIAL EQUATIONS 1

UCEAP Transcript Title

ORD DIFF EQUATN 1

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course discussed classical solution methods for first order equations. After this, linear equations of higher order with constant coefficients and first order systems are studied. Power series solutions are introduced for linear equations with variable coefficients. The last part of the course focuses on general theorems about existence and uniqueness. These theorems are important since most differential equations lack explicit solutions.

Language(s) of Instruction

English

Host Institution Course Number

MATC12

Host Institution Course Title

ORDINARY DIFFERENTIAL EQUATIONS 1

Host Institution Course Details

<https://www.lunduniversity.lu.se/lubas/i-uoh-lu-MATC12>

Host Institution Campus

Lund

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

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