

# 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 Campus

Lund

### Host Institution Faculty

Science

### Host Institution Degree

### Host Institution Department

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