

# COURSE DETAIL

## ORDINARY DIFFERENTIAL EQUATIONS

**Country**

China

**Host Institution**

Fudan University

**Program(s)**

Fudan University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

124

**UCEAP Course Suffix****UCEAP Official Title**

ORDINARY DIFFERENTIAL EQUATIONS

**UCEAP Transcript Title**

DIFFERENTL EQUATION

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course provides a bridge between mathematics and physics, mechanics, etc., and serves as a foundation for solving practical problems using mathematical tools. Through this course, students master the basic theory of common differential equations, and the application of differential equations in practical problems, including mathematics itself and physics, mechanics, economics, biology, and other fields. Topics include the source of the problem of normal differential equations, the primary solution of simple normal differential equations, the basic theory of differential equations, the structure (and solution) of the linear equation solution of constant coefficients, the theory and solution of linear differential equations, and the qualitative theory of differential equations.

### Language(s) of Instruction

Chinese

### Host Institution Course Number

MATH130004

### Host Institution Course Title

ORDINARY DIFFERENTIAL EQUATIONS

### Host Institution Campus

### Host Institution Faculty

Wei LIN

### Host Institution Degree

### Host Institution Department

Mathematical Science

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