COURSE DETAIL

DIFFERENTIAL EQUATION	
Country China	
Host Institution Fudan University	
Program(s) Fudan University	
UCEAP Course Level Upper Division	
UCEAP Subject Area(s) Mathematics	
UCEAP Course Number 173	
UCEAP Course Suffix	
UCEAP Official Title DIFFERENTIAL EQUATION	
UCEAP Transcript Title DIFFERENTL EQUATION	
UCEAP Quarter Units 4.50	
UCEAP Semester Units 3.00	

Course Description

Many phenomena in natural sciences and social sciences can be summarized as quantitative relationships expressed by differential equations. In particular, many laws in economics and finance can be described by differential equations. This course enables non-mathematics students to master the basic theories and methods of differential equations, and to cultivate their logical thinking ability and the ability to apply differential equations to solve practical problems. The course consists of two parts: ordinary differential equations and partial differential equations. The main topics include: first-order ordinary differential equations, high-order ordinary differential equations, linear ordinary differential equations, difference equations, basic partial differential equations (harmonic equation, heat conduction equation, wave equation), mathematical model of differential equations.

Language(s) of Instruction

Chinese

Host Institution Course Number

Econ130105

Host Institution Course Title

DIFFERENTIAL EQUATION

Host Institution Campus

Host Institution Faculty

Wu Hao

Host Institution Degree

Host Institution Department

Mathematical Science

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