

COURSE DETAIL

ORDINARY DIFFERENTIAL EQUATIONS

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

125

UCEAP Course Suffix**UCEAP Official Title**

ORDINARY DIFFERENTIAL EQUATIONS

UCEAP Transcript Title

ORDINARY DIFF EQUATN

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course offers a study of ordinary differential equations (ODEs). Topics include: origins of ODEs in applications; first order equations; linear order equations, higher order, and linear differential systems; existence, uniqueness, and continuation of solutions; resolution of ODE with power series; nonlinear equations-- autonomous systems, phase plane, classification of critical points, and stability theorems.

Language(s) of Instruction

English

Host Institution Course Number

18273

Host Institution Course Title

ECUACIONES DIFERENCIALES ORDINARIAS

Host Institution Campus

Leganés

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Matemática Aplicada y Computación

Host Institution Department

Matemáticas

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