

# 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 Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=362&anio=2023&plan=433&asig=18...>

## Host Institution Campus

Leganés

## Host Institution Faculty

Escuela Politécnica Superior

## Host Institution Degree

Matemática Aplicada y Computación

## Host Institution Department

Matemáticas

## Course Last Reviewed

2023-2024

[Print](#)