

# COURSE DETAIL

## 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**

104

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

DIFFERENTIAL EQUATIONS

**UCEAP Transcript Title**

DIFFERENTL EQUATNS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course covers ordinary differential equations and partial differential equations. Topics include: first-order differential equations; second-order linear differential equations; linear systems of differential equations; nonlinear systems and stability; method of separation of variables; Sturm-Liouville Problems; Inhomogeneous Problems.

Pre-requisites: Calculus I, Calculus II, and Linear Algebra.

## Language(s) of Instruction

English

## Host Institution Course Number

15537

## Host Institution Course Title

ECUACIONES DIFERENCIALES

## Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=257&anio=2022&plan=419&asig=15...>

## Host Institution Campus

Leganés

## Host Institution Faculty

Escuela Politécnica Superior

## Host Institution Degree

Grado en Ingeniería Biomédica

## Host Institution Department

Departamento de Matemáticas

## Course Last Reviewed

2022-2023

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