# **COURSE DETAIL**

# ADVANCED MATHEMATICS

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** 

106

**UCEAP Course Suffix** 

**UCEAP Official Title** 

ADVANCED MATHEMATICS

**UCEAP Transcript Title** 

**ADV MATHEMATICS** 

**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 equations; systems of first-order linear equations; nonlinear systems and stability; separation of variables; boundary-value problems.

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

## Language(s) of Instruction

English

#### **Host Institution Course Number**

15331

#### **Host Institution Course Title**

AMPLIACIÓN DE MATEMÁTICAS

## **Host Institution Campus**

Leganés

## **Host Institution Faculty**

Escuela Politécnica Superior

# **Host Institution Degree**

Grado en Ingeniería Aeroespacial

# **Host Institution Department**

Matemáticas

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