

## COURSE DETAIL

### PHYSICS III

**Country**

Spain

**Host Institution**

Carlos III University of Madrid

**Program(s)**

Carlos III University of Madrid

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

17

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

PHYSICS III

**UCEAP Transcript Title**

PHYSICS III

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course explores abstract physical concepts through lectures, experiments, and problem solving with the aid of mathematical tools. Topics include: electric charges and electric forces; the electric field; electric flux and Gauss' law; electrostatic potential energy; capacitance and dielectrics; current and resistance; magnetic fields; sources of magnetic fields; electromagnetic induction; electromagnetic waves; properties of light. Prerequisites: Physics I; Calculus I and II; Linear Algebra.

### Language(s) of Instruction

English

### Host Institution Course Number

15536

### Host Institution Course Title

PHYSICS III

### Host Institution Campus

LEGANÉS

### Host Institution Faculty

Escuela Politécnica Superior

### Host Institution Degree

Grado en Ingeniería Biomédica

### Host Institution Department

Departamento de Física

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