

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

FÍSICA III

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=257&anio=2024&plan=522&asig=15...>

Host Institution Campus

LEGANÉS

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Grado en Ingeniería Biomédica

Host Institution Department

Departamento de Física

Course Last Reviewed

2024-2025

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