

COURSE DETAIL

PHYSICS FOR LIFE SCIENCES II

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Madrid Summer Physics

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

16

UCEAP Course Suffix

B

UCEAP Official Title

PHYSICS FOR LIFE SCIENCES II

UCEAP Transcript Title

PHYSICS II

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces general topics in physics employing a calculus-based approach. Key course topics include: electric charge; force and fields; Gauss' Law; potential; capacitance; current and resistance; circuits; magnetic forces and fields; induction; Farady's Law; EM oscillations; waves; reflection and refraction; optics; interference; diffraction; particles and waves; relativity; nuclear physics. Text: Paul A. Tipler & Gene Mosca, Physics for Scientists and Engineers, 6th Edition Assessment: lab 30%, attendance/homework 20%, exams 50%

Language(s) of Instruction

English

Host Institution Course Number

Host Institution Course Title

PHYSICS FOR LIFE SCIENCES II

Host Institution Campus

Carlos III University

Host Institution Faculty

Host Institution Degree

Host Institution Department

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