

COURSE DETAIL

PHYSICS FOR LIFE SCIENCES I

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

A

UCEAP Official Title

PHYSICS FOR LIFE SCIENCES I

UCEAP Transcript Title

PHYSICS I

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: vectors; 1D and 2D kinematics; forces and motion; Newton's Law; reference systems; forces in accelerated systems; work; energy; conservation of energy; momentum; collisions; rotation; toques; angular momentum; rigid body; static; gravity; fluids; oscillations; thermodynamics; temperature; heat; ideal gasses; entropy. 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 I

Host Institution Campus

Carlos III University

Host Institution Faculty

Host Institution Degree

Host Institution Department

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