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

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PHYSICS FOR LIFE SCIENCES I

Host Institution Course Details

Host Institution Campus
Carlos III University

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

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