

# 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 Course Details**

### **Host Institution Campus**

Carlos III University

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

### **Course Last Reviewed**

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