

# COURSE DETAIL

## INTRODUCTORY PHYSICS I

**Country**

United Kingdom - England

**Host Institution**

University of Sussex

**Program(s)**

Sussex Summer Physics

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

12

**UCEAP Course Suffix**

S

**UCEAP Official Title**

INTRODUCTORY PHYSICS I

**UCEAP Transcript Title**

PHYSICS I

**UCEAP Quarter Units**

7.50

**UCEAP Semester Units**

5.00

### **Course Description**

This calculus-based course provides a firm foundation in physical concepts and principles, covering kinematics and dynamics, fluids, elasticity, wave motion, sound, ideal gases, and heat and thermodynamics. Applications of physical concepts are stressed, particularly those related to biological and medical phenomena as well as those forming the basis of much of modern technology. Students gain further insight into the physics taught by carrying out a series of laboratory experiments and learning how to analyze and interpret the data. This is an intensive module requiring good mathematical skills, including algebra and trigonometry and a knowledge of vectors and of differential and integral calculus.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

ISP01

### **Host Institution Course Title**

INTRODUCTORY PHYSICS I

### **Host Institution Course Details**

<https://uceap.sharepoint.com/:b:/s/DocumentLibrary/EaDn-lbv3tVPrUHT09WviwwBgjx4...>

### **Host Institution Campus**

University of Sussex

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Physics

**Course Last Reviewed**

2022-2023

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