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-Ibv3tVPrUHT09WviwwBgJx4...

Host Institution Campus
University of Sussex

Host Institution Faculty

Host Institution Degree

Host Institution Department
Physics

Course Last Reviewed
2026-2027

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