

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 Campus

University of Sussex

Host Institution Faculty

Host Institution Degree

Host Institution Department

Physics

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