

COURSE DETAIL

GENERAL PHYSICS 1 WITH CALCULUS

Country

Hong Kong

Host Institution

Hong Kong University of Science and Technology (HKUST)

Program(s)

Hong Kong Summer, HKUST

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

11

UCEAP Course Suffix

S

UCEAP Official Title

GENERAL PHYSICS 1 WITH CALCULUS

UCEAP Transcript Title

PHYSICS I

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course introduces general topics in physics employing a calculus-based approach. Key course topics include: motions and Newton's laws, work and energy, conservation of energy and momentum, rotation, rigid body, simple harmonic and damped oscillations, forced oscillations, standing waves and sound waves, kinetic theory and the laws of thermodynamics. Prerequisite: single-variable calculus. Text: Young and Freedman, UNIVERSITY PHYSICS. Assessment: homework (10%), quizzes (40%), final exam (50%)

Language(s) of Instruction

English

Host Institution Course Number

PHYS1112

Host Institution Course Title

GENERAL PHYSICS 1 WITH CALCULUS

Host Institution Campus

HKUST International Summer School

Host Institution Faculty

Host Institution Degree

Host Institution Department

Science

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