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 Course Details

Host Institution Campus
HKUST International Summer School

Host Institution Faculty

Host Institution Degree

Host Institution Department
Science

Course Last Reviewed

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