

COURSE DETAIL

PHYSICS 1: CLASSICAL MECHANICS, SOUND AND HEAT

Country

Egypt

Host Institution

American University in Cairo

Program(s)

The American University in Cairo

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

11

UCEAP Course Suffix**UCEAP Official Title**

PHYSICS 1: CLASSICAL MECHANICS, SOUND AND HEAT

UCEAP Transcript Title

CLASSICAL MECHANICS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course provides an introduction to classical mechanics covering vectors, applications of Newton's laws, conservation laws and forces, motion in a plane, circular motion, equilibrium and elasticity, rotational motion, simple harmonic motion, energy and power; mechanical and sound waves, temperature, heat and the first law of thermodynamics. Prerequisite: first semester of differential calculus.

Language(s) of Instruction

English

Host Institution Course Number

PHYS 1011

Host Institution Course Title

PHYSICS 1: CLASSICAL MECHANICS, SOUND AND HEAT

Host Institution Course Details

https://catalog.aucegypt.edu/preview_course.php?catoid=38&coid=91446&print=

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Physics

Course Last Reviewed

2025-2026

[Print](#)