

# COURSE DETAIL

## GENERAL PHYSICS AND EXPERIMENT (1)

**Country**

Korea, South

**Host Institution**

Yonsei University

**Program(s)**

Yonsei University

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

10

**UCEAP Course Suffix**

A

**UCEAP Official Title**

GENERAL PHYSICS AND EXPERIMENT (1)

**UCEAP Transcript Title**

GENERAL PHYSICS&LAB

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

### **Course Description**

Based on the basic concepts of Newtonian mechanics, we study various physical phenomena and learn how to express them by compact mathematical formula. Topics include Units, Physical Quantities, and Vectors, Newton's Laws of Motion, Work and Kinetic Energy, Potential Energy and Energy Conservation, Momentum, Impulse, and Collisions, Rotation of Rigid Bodies, Dynamics of Rotational Motion, Equilibrium and Elasticity, Fluid Mechanics, Gravitation, Mechanical Waves, Temperature and Heat and Thermal Properties of Matter. Textbook: Hugh D. Young and Roger A. Freedman, UNIVERSITY PHYSICS.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

PHY1011

### **Host Institution Course Title**

GENERAL PHYSICS AND EXPERIMENT (1)

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Physics

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