



# HANYANG UNIVERSITY

## 2018 HISS Syllabus [General Physics 2]

Professor: **So-Yeon Baek**  
E-mail: sybaek@hanyang.ac.kr  
Home Univ.: Hanyang University  
Dept.: Department of Applied Physics

Description: General physics 2 is the second part of a two-semester calculus-based introductory physics course for science and engineering majors. This course will cover physics related to electricity, magnetism, such as Coulomb's law, Gauss' law, electric field and potential, circuits, magnetic field, induction, electromagnetic waves and lights.

Objective: In this course, students will learn how to express the phenomena observed in nature. The purpose of this lecture is to let students understand basis of the physical properties of electric and magnetic fields created by static charge and current distributions.

Preparations: [Textbook] Principles of Physics(10th Edition), written by Halliday, David  
Lecture notes will be given in the HY-in site prior to class.

Schedule:

Week 1	Coulomb's law and Gauss' law, Electric Fields.
Week 2	Electric Potential, Capacitance, Current and Resistance. Midterm Exam.
Week 3	Circuits, Magnetic force and Fields, Faraday's Law.
Week 4	Electromagnetic Induction, Maxwell's Equations, Final Exam.

Evaluation:	Midterm (%)	Final (%)	Attendance (%)	Assignments (%)	Participation (%)	Etc. (%)
	30	30	10	20	10	00

### Hanyang International Summer School

Office of International Affairs, Hanyang University  
222 Wangsimni-ro, Seongdong-gu, Seoul, 04763, Korea  
Tel. +82-2-2220-2456 | [iss@hanyang.ac.kr](mailto:iss@hanyang.ac.kr)