

GENERAL PHYSICS

CREDIT	3	INSTRUCTOR	Prof. In-Whan Lyo
OFFICE	Cheomdan-Gwan (Bldg. 117) A111	OFFICE HOURS	TBA
TIME	Mon-Fri 09:30-12:00	CLASSROOM LOCATION	TBA
E-MAIL	lyo@yonsei.ac.kr		

[COURSE INFORMATION]

COURSE DESCRIPTION & GOALS	Basic understanding of fundamental concepts and tools of general physics Mechanics of particles, rigid bodies, and continua; gravitation and waves Calculus-based courses for science and engineering majors
PREREQUISITE	Elementary knowledge of calculus helpful Mathematical tools introduced as necessary.
COURSE REQUIREMENTS	Textbook (see below), Science/Engineering Calculator
GRADING POLICY	Homework (20 %), Midterm (40 %), and Final (40 %).
TEXTS & REFERENCES	<i>University Physics with Modern Physics</i> (14th Edition with Access Code) *Young and Freedman, Pearson Publishing * Available at the Yonsei University bookstore
INSTRUCTOR'S PROFILE	Professor, Dept. of Physics, Yonsei University B. S. Seoul National University Ph. D. University of Pennsylvania, USA

[WEEKLY SCHEDULE]

WEEK	DAILY TOPIC & CONTENTS	COURSE MATERIAL & ASSIGNMENTS	REFERENCE
1	Units, Physical Quantities, and Vectors		Chapter 1
	Motion Along a Straight Line Motion in Two or Three Dimensions		Chapters 2-3
	Newton's Law of Motion		Chapter 4
	Application of Newton's Laws		Chapter 5
	Work and Kinetic Energy		Chapter 6
2	Potential Energy and Energy Conservation		Chapter 7
	Momentum, Impulse, and Collisions		Chapter 8
	Rotation of Rigid Bodies		Chapter 9
	Dynamics of Rotational Motion		Chapter 10
	Equilibrium and Elasticity		Chapter 11
3	Fluid Mechanics		Chapter 12
	Gravitation		Chapter 13
	Periodic Motion		Chapter 14
	Mechanical Waves		Chapter 15
	Sound and Hearing		Chapter 16