

GENERAL PHYSICS

CREDIT	3	LECTURER	Prof. In-Whan Lyo
OFFICE	Cheomdan-Gwan (Bldg. 117) A111	OFFICE HOURS	TBA
TIME	9:00 ~ 10:40	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 & NOTES	<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 (PERIOD)	WEEKLY TOPIC & CONTENTS	COURSE MATERIAL & ASSIGNMENTS	NOTES
1	Units, Physical Quantities, and Vectors Motion Along a Straight Line Motion in Two or Three Dimensions	Chapters 1-3	
2	Newton's Law of Motion Application of Newton's Laws Work and Kinetic Energy	Chapters 4-6	
3	Potential Energy and Energy Conservation Momentum, Impulse, and Collisions	Chapters 7-8	July 23: Midterm Exam
4	Rotation of Rigid Bodies Dynamics of Rotational Motion Equilibrium and Elasticity	Chapters 9-11	
5	Fluid Mechanics Gravitation Periodic Motion	Chapters 12-14	
6	Mechanical Waves Sound and Hearing	Chapters 15-16	Final Exam/Last class