



HANYANG UNIVERSITY

INTERNATIONAL SUMMER SCHOOL

* Please fill out the form completely in English in detail.

Name	Andrew Dongjin Kim
E-mail	dkim112@gsu.edu
Home University	Georgia State University
Department	Computer Science and Engineering

Course Title	General Physics
Field of Study	General
Credits	3
Contact Hours	45
Course Code/Number	GEN1014
Course Description	This course covers the basic principles in mechanics and electromagnetism. Topics include the force and motion of objects, momentum and energy, charge and electronic fields, current and magnetic fields, and electromagnetic waves.
Course Objective	Students who successfully complete this course will be able to: 1. Understand the fundamentals of mechanics 2. Understand the electric and magnetic field and electromagnetic waves.
Preparations (Pre-Knowledge)	Calculus
Materials (Textbook/Websites link)	Principles of Physics, 4th Edition (or later), by Raymond A. Serway, John W. Jewett, Jr., ISBN: 0-534-49605-9, Brooks/Cole-Thomson Learning



HANYANG UNIVERSITY

INTERNATIONAL SUMMER SCHOOL

Lesson Plan: Fill out the topic for each class in detail		
Week 1	1 st Day	Orientation & Opening Ceremony
	Class 1	Introduction and Vectors (Chapter 1), Motion in 1 & 2 Dimensions (Chapter 2 & 3)
	Class 2	The Laws of Motion (Chapter 4)
	Class 3	More Applications of Newton's Laws (Chapter 5)
Week 2	Class 4	Energy and Energy Transfer (Chapter 6), Potential Energy (Chapter 7)
	Class 5	Momentum and Collisions (Chapter 8)
	Class 6	Rotational Motion (Chapter 10)
	Class 7	Oscillatory Motion (Chapter 12), Mechanical Waves (Chapter 13), Superposition and Standing Waves (Chapter 14)
Week 3	Class 8	Midterm Exam
	Class 9	Electric Forces and Electric Fields (Chapter 19)
	Class 10	Electric Potential and Capacitance (Chapter 20)
	Class 11	Current and Direct Current Circuits (Chapter 21)
Week 4	Class 12	Magnetic Forces and Magnetic Fields (Chapter 22), Faraday's Law and Inductance-1 (Chapter 23)
	Class 13	Faraday's Law and Inductance-2 (Chapter 23), Electromagnetic Waves (Chapter 24)
	Class 14	Reflection and Refraction of Light (Chapter 25)
	Class 15	Final Exam

Evaluation (%)					
* Total sum of percentages should be 100%					
* Only below options are available, please do not change the form (fill out the given form)					
Assignments	Attendance	Participation	Mid-term	Final	Total
20	10	10	30	30	100%