

PHY 212 General Physics II
Electricity, Magnetism and Light
Syllabus

Instructor: Anosh Joseph

Email: ajoseph@phy.syr.edu

Office: Room 363, Physics Building

Phone number: (315) 443-5976

In this introductory course in physics we will learn about three subjects electricity, magnetism and light. We will also learn how they can be regarded as three aspects of a single subject called *electromagnetism*.

Prerequisites and Co-requisites

Students must have passed General Physics I (PHY 211), General Physics Laboratory I (PHY 221) and Calculus I (MAT 295). They must have passed or currently enrolled in General Physics Laboratory II (PHY 222) and Calculus II (MAT 296).

Lectures

MTWTh, 8.30 am - 10 am, Room 106 Physics Building

Workshop Meetings

MTWTh, 10 am - 11 am, Room B129W Physics Building

Clinic/Office Hours

TTh, 2.30 pm - 4.30 pm, Room 106 Physics Building

Textbook

University Physics, Vol. 2, by H. D. Young and R. A. Freedman, 11th Edition.

Quizzes/Homeworks

There will be two in-class quizzes every week, typically on Tuesdays and Thursdays. Quizzes are given at the beginning of the lectures and you will have 10-15 minutes to complete each quiz. No notes are allowed for the quizzes. Your lowest two quiz scores will be automatically dropped. Homeworks are assigned periodically. Homework problems will be from the text book or written by the instructor. They should be handed in at the beginning of workshop (on Mondays and Wednesdays). Late homeworks will not be graded and lowest homework score will not be dropped.

Exams

There will be two in-class exams (dates to be announced in class), as well as a comprehensive final.

Attendance

This course requires student participation, so attendance is required in the lectures as well as workshops.

Other Materials

A *scientific calculator* is required for this course.

Grading

10% - Lecture attendance and participation
10% - Workshop attendance and participation
30% - Homeworks and quizzes (15% each)
30% - Exam 1 and Exam 2 (15% each)
20% - Final exam

100% - Total

The total score may be curved. Letter grades are determined according to the scale:

A: 90-100, A-: 85-89,
B+: 80-84, B: 75-79, B-: 70-74,
C+: 65-69, C: 60-64, C-: 55-59,
D: 50-54, F: 0-49

Good Luck!