

Syllabus for College Physics B with Lab: PHY 2054C

INSTRUCTOR	Dr. Tony Sumaryada 202 Keen Building Department of Physics Florida State University (850)644-1257 E-mail: rts03@fsu.edu
COURSE DESCRIPTIONS AND OBJECTIVES	PHY 2054 is the second part of introductory physics class which is intended for soft sciences students. This course will cover topics in Electricity, Magnetism, Optics, and Modern Physics. Basic knowledge about trigonometry and algebra are required in this course, which is reflected in the pre-requisites courses. Through out this course, students will be introduced to the basic concepts of physics and their application in everyday's life. Students will also be trained to solve physics problems by working on some sample problems and homework sets.
CLASS MEETINGS	There are four class meetings per week <ul style="list-style-type: none">• Two Lectures : Monday and Wednesday 10.10 - 11.00 AM• Recitations : Friday : 9.30 - 10.20 AM• Laboratories : M,T,W : 1.30 - 4.30 PM
OFFICE HOURS	Thursday 1.15 - 3.15 PM, at 202 Keen Building
TEXTBOOK	Physics, 6th edition, by Giancoli (Prentice Hall) ISBN 0-13-060620-0
PRE-REQUISITE COURSES	MAT 1112, MAT 1113, PHY 2053C
ATTENDANCE POLICY	Attendance is not mandatory. But it is your responsibility to keep up with the lectures and update yourself with any announcements regarding the changes to syllabus or exam dates.
GRADING POLICY	<ul style="list-style-type: none">• 45% from 3 Review exams• 20% from Homeworks/LONCAPA problems• 15% from Labs• 20% from Final exam

Grade	Maximum point	Minimum point
A	100	90.0
A-	89.9	86.9
B+	86.8	83.8
B	83.7	77.7
B-	77.6	74.6
C+	74.5	71.5
C	68.4	65.4
C-	65.3	62.3
D	62.2	56.00
F	55.9	below

COURSE SCHEDULES

Week	Date	Topic	Chapter	Homework	Exam	Lab
1.	M W F	Introduction to the course Electric Charges and Forces Electric Fields Recitation Chapter 16	Chap.16 Chap.16	No HW		No Lab
2.	M W F	Electrical potentials Electric works Capacitors, Ohm's law Recitation Chapter 17,18	Chap.17	HW 1		Lab 1 Electric Fields
3.	M W F	circuits, resistors and capacitor series and parallel circuits Recitation Chapter 19	Chap.19	HW 2		Lab 2 Ohm's Law
4.	M W F	Magnetism, magnetic force Faraday's law Right Hand Rule, Lenz's law Recitation Chapter 20,21	Chap.20,21	HW 3		Lab 3 Magnetic Fields
5.	M W F	Electromagnetic waves Exam Recitation Chapter 22	Chap.22 Chap.16-21	HW 4	Exam 1	Lab 4 Oscilloscope
6.	M W F	Light and geometrical optics, Snell's law Lens equation and ray tracing Recitation Chapter 23	Chap.23	HW 5		Lab 5 Thermister
7.	M W F	Nature of light diffraction, interference Recitation Chapter 24	Chap.24	HW 6		Lab 6 Lenses
8.	M W F	Optical instruments Exam Recitation Chapter 25	Chap.25 Chap.22-25	HW 7	Exam 2	Lab 7 Diffraction gratings
9.	M W F	Einstein and Relativity Continued Chap.26 Recitation Chapter 26	Chap.26	HW 8		Lab 8 Laser light
10.	M W F	Early Quantum Theory Electron and Photons Quantum Mechanics, Molecules Recitation Chapter 27,28,29	Chap.27 Chap.28-29	HW 9		Lab 9 Radio activity
11.	M W F	Nuclear Physics Exam Recitation Chap.30	Chap.30 Chap.26-29	HW 10	Exam 3	Lab 10 Gamma Rays
12.	M W F	Nuclear Energy Review for the final Recitation Chapter.31	Chap.31	HW 11		Make up Lab
13.		Final Exam			Final	No Lab

EXAMS	Exams's format will be a mixture of multiple choice questions and analytical problems and they are closed books. A Formulae sheet will be provided. You must bring your own pen/pencil and non-programable calculator.
EXTRA CREDITS	Your can earn extra credits up to 3% by answering the questions during the lecture class.
HOMEWORK ASSIGNMENTS	The home work problems will assigned using the Computer Assisted Personal Approach (CAPA). You will be required to complete these computer-based weekly assignments by 11.59 pm of every Tuesday. CAPA assignments can be accessed at : http://loncapa.fsu.edu
ADA STATEMENT	Students with disabilities needing academic accommodations should: (a) register with, and provide documentation to, the Student Disability Resource Center (SDRC); and (b) bring a letter to me, from SDRC indicating your needed academic accommodations. Please, if at all possible, do this during the first week of class.
ACADEMIC HONESTY	Students are expected to uphold the Academic Honor Code published in the Florida State University Bulletin and the Student Handbook. The first paragraph reads: The Academic Honor System of Florida State University is based on the premise that each student has the responsibility (1) to uphold the highest standards of academic integrity in the student's own work, (2) to refuse to tolerate violations of academic integrity in the University community, and (3) to foster a high sense of integrity and social responsibility on the part of the University community.
COURSE WEB-PAGE	http://garnet.acns.fsu.edu/~rts03/PHY2054.pdf