

College Physics I

PHY2053C.B002 Summer 2014

June 23 – August 1, 2014

MTWTh 2:00 - 3:50 pm MSB 360

Instructor

Prof. Lee Chow

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Office Hours:

MTWTh 4:00 – 4:50 pm

Webassign class key

ucf 9382 4465

SARC Tutoring (Kevin)

Howard Philips Hall, Rm115, Tu, Th 11:30-2:00

Course Website

www.physics.ucf.edu/~lc/Phy2053.html

iClicker website

www.iclicker.com

Course Text

"PHYSICS" by CUTNELL & JOHNSON (9th Edition) Wiley (2013) and PHY 2053 LAB MANUAL. **NOTE:** A Webassign login is required. It comes with new textbook, or it can be purchased online. <https://www.webassign.net>

Laboratory

The laboratory component of PHY 2053 covers material related to class lectures. The laboratory is required for all students enrolled in the course. The laboratory score will determine about 16% of your final grade in PHY 2053C. **Details of the lab will be given in the lab syllabus.**

Course Description

PHY 2053 is the first of a two-semester course in introductory physics offered primarily for students majoring in information technology, the biological sciences and pre-health professions. Emphasis is placed on understanding major principles, and mathematics is used to clarify concepts. Students should have a good working knowledge of algebra and trigonometry. The course is quite intense and will require you to invest considerable time in study and problem solving.

Objectives

The major objectives of this course are for students to learn the fundamental principles of mechanics, to develop solid and systematic problem solving skills, and to lay the foundations for further studies in science, pre-health professions, and engineering.

Prerequisites

Prerequisites are MAC 1105 and MAC 1114. This includes but not limited to, algebraic expressions, higher order polynomials, exponential and logarithmic functions, circle arc length, circular functions, identities, inverse functions, function of angles, and basic trigonometry.

Course Organization and Expectations

The course will consist of a set of class lectures with some demonstrations, unannounced quizzes, homework assignments, and three exams. Also, due to the department regulations to cover all material in the syllabus, the course will have a fast pace. It is therefore advisable, to read the relevant material prior to attending the class, to attend all lectures, and to keep current with the homework. **Attendance at lectures is very essential.** If you miss class and fall behind, it will be extremely difficult, if not impossible, to catch up. Please, be aware!

Homework and Quizzes

Homework will be submitted on the WEB at <https://www.webassign.net/login.html>. You are expected to check for new assignments without being notified. Doing a thorough job on the homework problems and quizzes can earn you up to 18% of the total credit for the course and will be a good preparation for the exams. The quizzes will NOT be announced. Quizzes will be based on previously covered material up to and including the quiz day reading assignment. Usually, they will consist of 1 problem with several parts to be answered in 5 minutes or less. It is anticipated that about 10 quizzes will be given during the semester. The two lowest scores will be dropped. **Since two lowest scores will be dropped from the final grade, there will be no make-up quizzes! Quiz will be conducted through iClicker2 system. Details will be announced during the first week of class.**

Examinations

We will have three in-class exams. Each exam will cover about 1/3 of the materials. Each exam will be a combination of multiple choice, and free response questions. You must bring a few #2 pencil and a pink scantron sheet to each exam. You also **MUST** know your student PID number and record it accurately in the proper location on the Test Form and on each written exam so that the computer can keep track of your scores as the term progresses. (You must **SHOW** your UCF photo ID card when you turn in your exam answer sheet.) A protractor, ruler and calculator with trigonometric capabilities (TI 83 or similar) may be used during exams. However, calculators must not have any preprogrammed physics information.

Missed Work Policy

It is Physics Department policy that making up missed work will only be permitted for University-sanctioned activities and bona fide medical or family reasons. Authentic documentation must be provided in every case (in advance for University-sanctioned activities). At the discretion of the instructor, the make-up may take any reasonable and appropriate form including, but not limited to the following: a replacement exam, replacing the missed work with the same score at a later exam, allowing a 'dropped' exam, replacing the missed work with the homework or quiz average. All assignment and exam grades are final 72 hours after they have been returned. Contact me before this 72-hour period is over if you have a grading dispute.

Grades

All examinations will be closed book and closed notes. A one page formula sheet will be given for each exam and will be posted online at least 24 hour before exam. The grades of exams, labs, homework and quizzes will be added together to determine your final grade.

NO GRADE INFORMATION WILL BE GIVEN OVER THE TELEPHONE or by email.

Your grade in this course is based on the following weighting:

Three in-class exams	420
Quizzes	120
Homework (WebAssign)	130
Laboratory	130
Total points	800

The final letter grade will be determined based on the following proposed breakdown:

A	80 - 100 %
B	70 - 79 %
C	60 - 69 %
D	50 - 59 %
F	less than 49%

For borderline cases, + / - grades will be considered.

Examination Schedule and Coverage

Exam 1	Thur., July 3, Chapters 1, 2, 3
Exam 2	Thur., July 17, Chapters 4, 5, 6
Exam 3	Thur., July. 31, Chapters 7, 8, 9

Webpage

Lecture materials and other course information are on-line:

<http://www.physics.ucf.edu/~lc/Phy2053.html>

The schedule is tentative and may be adjusted during the semester. The latest version will always be available on the class website.

Important UCF Dates: Withdrawal deadline July 1. Classes end August 1.
Grades will be available on myUCF August 12.

