

PHY 170 - GENERAL PHYSICS

Syllabus Semester: Fall 2014

This syllabus intends to provide major guidelines of the course.

Lecturer:

Prof. Veronica Bindi, Room WAT 432, Physics Building,

Office hours: Wed 15:00 - 16:00

e-mail: bindi@hawaii.edu, to arrange a meeting.

Teaching Assistants:

K. Whitman, C. Corti, Room WAT 431, Physics Building,

Lecture:

Lecture h 10:30 - 11:20 MTWF - WAT 420 Physics Department

All the material presented in class will be posted on Lulima. Most of the material will be available within a few hours after the lecture. In Lulima will be also available announcements and important dates.

Please always check in Lulima first before asking organizational questions.

Required Text and material:

Young and Freedman, University Physics Volume 1, (Pearson Addison- Wesley editor)
i-click is not needed. Mastering Physics is used for part of the homework.

Prerequisites:

MATH 242 (or concurrent) or MATH 252A (or concurrent). MATH 216 may be substituted with consent.

Mastering Physics:

Some problem sets will be worked and graded using: www.masteringphysics.com

You will have to create a Mastering Physics account and register for the course.

To access the problems and receive credit, you will need a registration code, which comes along with a new text book or can be purchased separately. Course ID:

MPBINDI76820 please include your class id (see later).

Class id:

Each student will be assigned with a class ID, from 1 to 65. The class id should be written by the students in each homework, quiz and test page and in Mastering Physics, Class id will be provided in class and upload in Lulima.

Grading:

The overall course grade will be determined on the basis of the following distribution:

Homework: 10 %

Quiz: 20 %

Test: 70 % (midterm 1 20%, midterm 2 20%, final 30%)

The final score translates into the following final grade:

A+	$95\% \leq \text{score}$	C+	$65\% \leq \text{score} < 70\%$
A	$90\% \leq \text{score} < 95\%$	C	$60\% \leq \text{score} < 65\%$
A-	$85\% \leq \text{score} < 90\%$	C-	$55\% \leq \text{score} < 60\%$
B+	$80\% \leq \text{score} < 85\%$	D+	$50\% \leq \text{score} < 55\%$
B	$75\% \leq \text{score} < 80\%$	D	$45\% \leq \text{score} < 50\%$
B-	$70\% \leq \text{score} < 75\%$	D-	$40\% \leq \text{score} < 45\%$
		F	$\text{score} < 40\%$

Tests (70%):

The tests will be given in class usually on Tuesday (*grading: midterm 1 20%, midterm 2 20%, final 30%*). There will be no make-up tests.

During the test students can bring:

- **one page (double side) with formulas, equations, physical constant and conversion factors.**

- **only pocket calculators are allowed, no laptop, no mobile phone, no books or notes. Approximate Test Dates** (dates will be discussed in class and could change):

T1 (T Sept 30), T2 (W Nov 5)

Final: Dec 15-19

Quizzes (20 %):

Quizzes will be given in class before each test (usually on Monday). The quizzes are mainly multiple choice answers or yes/no. The steps that lead to the results are not requested unless specified.

During the quizzes only pocket calculators are allowed, no laptop, no mobile phone, no book or notes or formula.

Homework (10 %):

Homework is an essential part of the course. The assigned homework problems are intended to test your understanding of course material. In the same way you must practice to become proficient at a sport or musical instrument, you must work problems in order to master basic physics. It is very important that you work out the solutions to each problem, and understand clearly the correct method of solution. It will be difficult to obtain a good grade in this course without making a conscientious effort to do all of the homework assignments.

Parts of the homework have to be completed by using Mastering Physics. A big fraction of the problems will have to be worked on with pen and paper (hand-in).