

Physics 2B Fall 2017

Instructor: Carrie Huang

Class Time: Tuesday and Thursday 5:30 pm – 7:20 pm. Lab: Thur 7:30 – 10:10 pm

Classroom: S17

Office: S13

Email: huangcarrie@fhda.edu

Office Hours: Wednesday 3:10 pm – 5:25 pm.

Final Exam: 12/12/17 , 6:15 pm – 8:15 pm -watch out! Finals will not be given earlier or later.

Textbook: Fundamental of Physics 10th Edition or 9th Edition, Halliday, Resnick, and Walker.

COURSE DESCRIPTION:

This is a limited-calculus based course covering basic electricity and magnetism. Students should leave this course with an understanding of electromagnetic fields and forces. We will cover charge, static electric interactions, electric fields, flux, electric potential, capacitance, current, resistance, circuits, magnetic fields, induction, alternating currents, and Maxwell's equations. This will be chapters 21–32 of the textbook.

SLO:

Critically examine new, previously un-encountered problems, analyzing and evaluating their constituent parts, to construct and explain a logical solution utilizing, and based upon, the fundamental laws of electricity and magnetism.

PREREQUISITES: PHYS 2A.

ATTENDANCE:

In order to comply with federal guidelines De Anza College requires students to attend class and class attendance records to be kept. A student may miss a few classes for medical or personal reasons, however, unexplained absence of more than 2 consecutive days or frequent absence will result in a student being dropped from the course, and unexcused missed quizzes cannot be made up. **NO make-up exams will be given, PERIOD.**

HOMEWORK ASSIGNMENTS:

Homework will be assigned after each class. It is very important to do homework! If you have difficulty with the homework you can come to my office hours, work together with other students, or go to the **Math and Science Tutorial Center (Student Success Center)**.

The set problems should not be viewed as the only problems you can do: you are strongly encouraged to look through all of the problems at the end of each chapter and consider how each should be approached. Practicing with many problems is the key to master the concept and ace in exams.

STUDENT SUCCESS CENTER: <http://www.deanza.edu/studentsuccess/>

Deanza college has excellent tutoring services and I highly recommend that every student get regular tutoring if she / he needs it, .. or even if you don't need it. I will also try to set up group tutoring session by asking about the times that they are available. The tutorial center in S43 can often find a tutor for a group session. During summer session tutors may not be available.

QUIZZES:

There are six (6) quizzes. The quiz questions will be homework problems. Make sure you do the homework, so you can do well on the quizzes! **Your lowest quiz score will be dropped.** No make ups for quizzes will be given. If you miss a quiz consider this to be your throw out.

EXAMS:

There will be two mid-term exams and one comprehensive final exam. All exams are closed book! To pass the class, you must take all the exams. **There are NO make-up exams.** If you miss an exam, you will get zero (0) point for that exam.

ACADEMIC HONESTY POLICY :

Cheating consists of receiving or giving unauthorized aid during exams or duplicating and handing in assignments for absent students. It is acceptable to collaborate on Homework, Activities in Class, including Labs, but not on Exams. You must hand in your own written work. First offense will lead to zeros on the assignment or exam involved. Repeat offenses will lead to administrative involvement. Note that a zero on an exam will likely result in a failing grade.

DISRUPTIVE BEHAVIOR:

The college will enforce all policies and procedures set forth in the Standards of Student Conduct (see catalog). Any student disrupting the class may be asked to leave that class. Administrative follow-up may result.

GRADING:

Maximum 1000 points can be earned in this class.

90%-100%, 900 – 1000 points → A (97%-100% A+, 90%-92% A-)

80%-89%, 800 – 899 points → B (87%-90% B+, 80%-82% B-)

65%-79%, 650 – 799 points → C (77%-80% C+, 65% - 68% C-)

50%-69%, 500 – 649 points → D

50% or lower, 499 points or less → F

2 Exams: 30%, (15% each. 150 points each, total 300 points)

6 Homework Quizzes: 20% (5% each. Only pick 5 best scores. 40 points each. Total 200 points)

Lab: 20% (10% Weekly Labs and 10% Lab Final. Total 200 points)

Final Exam: 30% (Final exam will be comprehensive. 300 points)

EXTRA CREDIT

You can receive up to 5% extra credit (50 points) during class. Extra credit will be only given in class. You must participate to earn. No make-up extra credit, PERIOD.

IMPORTANT DATES

10/7/17	Last day to add
10/8/17	Last day to drop with full refund and no record of grade
10/20/17	Last day to request pass/no pass grade
11/17/17	Last day to drop with "W"
12/12/17	Final Exam

Tentative Schedule:

The Instructor reserves the right to change the schedule.

Date	Lecture
9/26	Introduction + Chapter 21
9/28	Chapter 21 Continue + Lab #1
10/3	Quiz #1 on Chapter 21 + Lecture Chapter 22
10/5	Chapter 22 Continue + Lab #2
10/10	Quiz #2 on Chapter 22, + Lecture Chapter 23
10/12	Chapter 23 Continue + Chapter 24 + Lab #3
10/17	Quiz #3 on Chapter 23 + Lecture Chapter 24 Continue
10/19	Chapter 24 Continue + Review for Exam #1 + Lab #4
10/24	Exam #1 + Exam #1 Review
10/26	Chapter 25 + Lab #5
10/31	Chapter 25 Continue
11/2	Chapter 26 + Lab 6
11/7	Quiz #4 on Chapter 25 and 26 + Lecture on Chapter 27
11/9	Chapter 27 Continue + Review for Exam #2
11/14	Exam #2 + Exam #2 Review
11/16	Chapter 28 + Lab 7
11/21	Chapter 28 Continue + Chapter 29
11/23	Thanksgiving Holiday – No class
11/28	Quiz #5 on Chapter 28 + Lecture to complete Chapter 29 and then Chapter 30
11/30	Chapter 30 Continue + Lab 8
12/5	Quiz #6 on Chapter 29 and 30, +Lecture on Chapter 31
12/7	Chapter 32 + Review + Lab Final
12/12	Final Exam