PHYSICS 50.61 (02086) FALL 2016

<u>INSTRUCTORS</u>: Carrie Huang, Ph.D 408-849-9116
Email: <u>carrieyhuang@yahoo.com</u>

<u>CLASS TIMES</u>:
Tuesday and Thursday 5:30pm – 7:20pm

<u>CLASS LOCATION</u>:
RM S35

<u>OFFICE HOUR</u>:
Tuesday and Thursday 7:30pm – 8:45pm (RM S13)

<u>FINAL EXAM</u>:
Tuesday 12/13/16 6:15pm – 8:15pm (RM S35)

<u>COURSE DESCRIPTION</u>:
This course this class is to prepare students for success in Physics 4A by developing an understanding of the principles of classical mechanics with an emphasis on basic problem solving techniques. Upon successful completion of the course, students will be able to
- Demonstrate knowledge of basic physical units and their relationships.
- Understand the definition of vector and the method of vector addition.
- Determine the components of linear motion (displacement, velocity, and acceleration).
- Solve motion problems in one and two dimensions, especially motion under conditions of constant acceleration.
- Apply Newton's laws in solving dynamic problems.
- Solve problems using principles of energy

<u>PREREQUISITES</u>:
Advisory: Mathematics 49B and Physics 10.

<u>TEXTBOOK</u>:
Physics, 4th ed, James S. Walker.

<u>ATTENDANCE</u>:
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.

<u>HOMEWORK ASSIGNMENTS</u>:
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.

QUIZZES:
There are five (5) quizzes. The quiz questions will be homework problems. Make sure you do the homework, so you can do well on the quizzes!

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. You can send an email or leave a message before the exam time in case of an emergency. 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.

GRADING:
Maximum 1000 points can be earned in this class.
90%-100%, 900 – 1000 points ➔ A
80%-89%, 800 – 899 points ➔ B
65%-79%, 650 – 799 points ➔ C
50%-69%, 500 – 649 points ➔ D
50% or lower, 499 points or less ➔ F

2 Exams: 40%,   (20% each. 200 points each, total 400 points)
Final Exam: 30%   (Final exam will be comprehensive. 300 points)
5 HW quizzes: 30%   (6% each. 60 points each, total 300 points)

EXTRA CREDIT
You can receive up to 5% extra credit (50 points) during class.

IMPORTANT DATES

10/8 (Sat)	Last day to add
10/9 (Sun)	Last date to drop with full refund and no record of grade
11/18 (Fri)	Last day to drop with "W"
12/13 (Tue)	Final Exam