

# PHYSICS 2C, DE ANZA COLLEGE, SPRING 2016

**Instructor:** Alan Chin

**Email:** chinalan@fhda.edu

**Office Hours:** T Th 4:00-5:00PM (S43, the location may change later in the quarter)

**Lecture Hours:** T Th 5:30 – 7:20PM (S17)

**Lab Hours:** Th 7:30 – 10:20PM (S17)

**Text:** Fundamental of Physics 9<sup>th</sup> Edition, Halliday, Resnick, and Walker

**Prerequisites:** Physics 2B with a C or higher.

**Note:** *The last day to drop a class with a “W” is Friday, May 27. Students who do not drop by this date will be given the appropriate grade for their achievement in the class at the end of the quarter.*

## OBJECTIVE

Understand the physics of fluids, optics, thermodynamics, and concepts in modern physics.

## TOPICS COVERED

We will be covering the following topics (the relevant chapters in the textbook are indicated):

- Fluids: Chapter 14
- Thermodynamics: Chapters 18 to 20
- Optics: Chapters 33 to 36
- Modern Physics
  - Chapter 37 on Relativity
  - chapter on Quantum Mechanics in the extended version (if you have a copy)
    - supplementary material will be provided on Quantum Mechanics

## ATTENDANCE

Your attendance is expected at the beginning of each class for the entire quarter. Attendance is important because we will be discussing concepts in physics based on the material in the textbook that will facilitate understanding of the material. If you miss the first lecture and there are people on the waitlist, then you will be dropped so that a person on the waitlist can be added. If you miss four or more lectures, you may find yourself dropped from the class. *It is your responsibility* to ensure that you are dropped or withdrawn from the course in order to avoid an “F” in the course, if you decide to stop attending the lecture or lab.

## HOMEWORK

Homework will be assigned on a regular basis but will NOT be collected. **It is your responsibility** to have the homework completed before the following lecture. It is expected that you will have read the relevant material in the textbook prior to the lecture. The quizzes are generally based on the homework and lecture material.

On the homework, quizzes, as well as on the exams, you need to show all your work in complete detail in order to receive full credit. Your solutions should show your step-by-step process and logic that was used to obtain the answer. **No credit will be given if no work is shown even if you obtain the correct answer to the problem.** Answers to homework even problems will be posted on my homepage.

## **QUIZZES**

There will be a quiz every *Thursday* at the end of class. The quizzes will generally represent that week's homework problems and lecture material. It is to your advantage to attend every lecture and have **ALL** the homework completed to ensure you are prepared for each quiz. If you miss a quiz you will get a **ZERO** for that quiz.

## **EXAMS**

Three one-hour in-class exams and a comprehensive final will be used to test your understanding of the materials covered in the class. The exact dates for exams will be given prior to each exam. The exam format may involve calculations, multiple-choice questions, conceptual questions, and/or a combination of the three. There are no make-up exams. If you miss an exam, you will receive a **ZERO** for that exam.

## **LABORATORY**

A laboratory notebook is mandatory. Please bring a bound laboratory notebook (preferably with graph pages) on the first lab class. All lab work will be performed during the class period. The lab notebooks will be collected at the end of each class and provided to the students at the beginning of the following lab class. The final lab exam will be on the last day of class.

## **GRADING**

Grades will be based on the following materials:

Quizzes: 15%  
Laboratory: 20%  
Exam 1: 15%  
Exam 2: 15%  
Exam 3: 15%  
Final Exam: 20%

Grades will be determined as follows:

90% to 100% = A  
76% to 89% = B  
61% to 75% = C  
51% to 60% = D  
0 to 50% = F

The policies on Academic Integrity at De Anza College will be strictly enforced.