

Cañada College  
Physics 260  
Fall 2008

MW – 9:45to 11:00 & F 2:10-5:00

Instructor Dr. Martin Partlan  
Office 16-105  
Phone 650-306-3355  
E-Mail Partlanm@smccd.net  
Office Hrs. MW 12:30-1:30 Learning Center

Text *University Physics 12th ed., Young and Freedman*  
Mastering Physics Web access code (comes with text if you buy it new)  
([www.masteringphysics.com](http://www.masteringphysics.com)) (Class [MPPARTLAN77160](#))

Other useful items: Flash drive and/or e-mail, colored pencils, good calculator, knowledge of how to use spreadsheets.

### Description:

Physics 260 is the second semester of a three semester course in basic physics with calculus. We will cover the basics of thermal physics and electric and magnetic fields, AC and DC circuits.

### Math Requirements:

Integral and differential calculus. Good algebra skills. Setting up and solving equations: linear, quadratic, and systems. Good graphing skills: making and reading graphs. Basics of geometry and trigonometry. Scientific notation! Prefixes. Calculus: basic integration and differentiation.

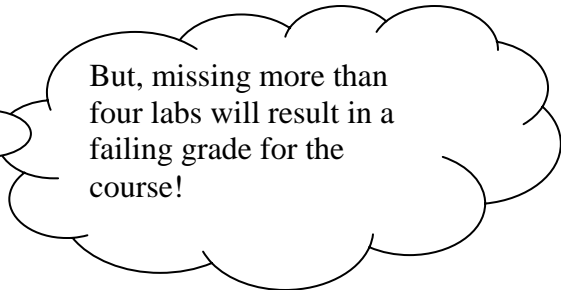
**Exams:** Four Exams & Comprehensive Final (all of equal weight)

### Grading:

Minimum of 55% average on the four exams then:

Best 4 Exams	(50%)
Quizzes	(10%)
Homework	(25%)
Lab	(15%)

A	90% to 100%
B	75% to 90%
C	60% to 75%
D	35% to 60%
F	Below 35%



But, missing more than four labs will result in a failing grade for the course!

If the average of your exams is less than 55% then your grade is at most a **D**

**Lab Reports:**

Keep your lab reports in a separate folder to be collected three times over the semester. Generally, lab reports are typed double spaced. Equations, formulas, and diagrams can be done by hand. All graphs must be done on a spreadsheet.

Format for lab report

- I) Introduction
- II) Setup
- III) Procedure-details of experiment and observations
- IV) Analysis and presentation of data
- V) Summary – Conclusions and inferences that may be drawn from this experiment.

In addition to the lab work, some online assignments will also be part of the lab grade.

Warning, if you show up late to the lab, you may not be allowed to do it.

Physics 260 content/schedule (Tentative)

Week	Chapter		Exams
1	17	Temperature & Heat	
2	18	Thermal Properties of Matter	
3	19	1 <sup>st</sup> Law of thermodynamics	
4	20	2 <sup>nd</sup> Law of thermodynamics	1
5	21	Electric Charge & Electric Field	
7	22	Gauss's Law	
8	23	Electric Potential	
9	24	Capacitance & Dielectrics	2
10	25	Current & resistance	
11	26	DC circuits	
12	27	Magnetic fields & Magnetic Forces	3
13	28	Sources of Magnetic fields	
14	29	Electromagnetic induction	
15	30	Inductance	
16	31	Alternating Current	4