PHYSICS 2B, GENERAL PHYSICS  
FALL 2004

Instructor  Brandon Murakami
Electronic  bmurakami@csufresno.edu, physics.csufresno.edu/murakami  
Office  McLane 244, 278-2700  
Office hours  11:00-12:00 MWF, 11:00-1:00 Tu

Class  1:00-1:50 MWF, McLane 162  
Textbook  *College Physics*, 6th edition, Serway and Faughn  
    Either Volume 2 or the consolidated version. 
Requirement  Physics 2A

Welcome
As your instructor, I committed to take you to the gates of great new insights on the  
physical world around you. However no guide, salesman, or instructor can force one to  
take heed. Therefore, the greatest key to success in this course is your *interest*. This  
course offers *revelations* for those who choose to see them.

To help cultivate interest, take notice of the ordinary world around you and deliberately  
wonder about any natural phenomena that catches your eye. Then please feel free to  
email me *any question* on these matters, and we may discuss it for the whole class in the  
few minutes just before class begins.

Grading
- 25% laboratory, 25% assignments, 25% examinations (three), 25% final  
examination.  
- A 85-100%, B 70-85%, C 55-70%, D 40-55%, 0-40% F  
- Turning in all homework assignments, each at a passing grade, results in 2%  
  bonus on top of the final grade, calculated with the 25-25-25-25 weighting above.  
- All non-multiple choice problems for assignments and exams are graded on a 10  
  point scale, with 5.5 and above defining a passing score.  
- The lowest exam score (excluding the final) is dropped.  
- Failing the laboratory part of the course overrides the above grading system and  
  results in an F in this course as well.  
- The incomplete grade (I) is assigned only if a student fails to complete a portion  
  of the required course work and has completed all but the final examination of the  
  required work (assignments and exam, but not the final exam) at a passing level.  
  When completing an incomplete grade, the student only performs the unfinished  
  requirements (including the final exam).  
- Academic dishonesty, if proven, overrides the grading policy and may result in a  
  grade of F. Refer to the *General Catalog* for the university policy.

Assignments
There will be weekly homework assignments due each Friday at the start of class.  
Assignments will announced in class and posted on the class website. Late assignments  
will not be accepted, except in the case of proven emergency or illness. Make up  
assignments are not granted. Only legible writing on one side of letter sized paper will be  
eligible for grading.
Examinations
- First Examination, Fri, Sep 17.
- Second Examination, Fri, Oct 15.
- Third Examination, Fri, Nov 12.
- Final Examination, Mon, Dec 13 at 1:15 pm. (Confirm with the schedule of classes.)

Course topics
- Electric fields (Chapters 15, 16)
  - Applications of electric fields (Chapters 17, 18)
- Magnetic fields (Chapters 19, 20)
  - Applications of magnetic fields (Chapter 21)
- Electrodynamics (Chapter 21)
  - Optics (Chapters 22, 23, 24, 25)
- Special relativity* (Chapter 26)
- Quantum mechanics* (Chapter 27)
- Nuclear physics* (Chapters 28, 29)
- Particle physics* (Chapter 30)

*as time permits

Reading requirements will be announced in class and posted on the class website. Although reading requirements are not enforced, failure to do so will obviously and certainly hurt your class performance.

Laboratory
Policy for the laboratory segment of the course will be provided by the laboratory instructor.

Students with disabilities
Refer to the General Catalog for the university policy.

Right to changes
The instructor reserves the right to change the course policy during the term due to unforeseen problems in the course pace, fairness, conflicts, etc.
Physics 2A Course Information, Fall 2004

Instructor: Karl Runde  
Office: McLane 129  
Phone: 278-8215  
Email: krunde@csufresno.edu  
Office Hours: M 9:00-11:00, T 12:00-1:00, W 1:00-2:00, Th 1:00-2:00

Class: 5:00-6:15 TTh  
Schedule Number: 76191  
Room: McLane 162

Lab: You must pass the lab in order to pass this course. Lab policy will be furnished by the lab instructor.


Course Material: Chapters 1-14; mechanics, thermodynamics, vibrations and waves.

Homework: Problems will be assigned, usually from the text, and collected at the beginning of the following class meeting. Some of the problems will be discussed in class, some solutions will be posted. Doing the homework and understanding the material presented in class prepares you for the exams.

Exams: There will be two midterms and a comprehensive final exam.  
Midterm: Thursday, September 30.  
Midterm: Thursday, November 11.  
Final: Tuesday, December 14, 5:45-7:45 PM.

Weighting: Homework 15%, lab 20%, midterm exams 17.5% each, final exam 30%.

Letter Grade:  
90 - 100% A  
75 - 90% B  
60 - 75% C  
50 - 60% D  
Below 50% F

For information on the University's policy regarding cheating and plagiarism, refer to the Schedule of Courses or the University Catalog.  
Students with Disabilities: Contact Services to Students with Disabilities in Madden Library 1049 (278-2811).

The above schedule and procedures for this course are subject to change in the event of extenuating circumstances.