

Syllabus

Physics 142

Fall 2006

Classes: MWF 3:00-3:50 PM

Room: 0405

Instructor: C. S. Liu -- Email: cslu@umd.edu -- Phone: 301-405-8054
2313 Computer Space Science Bldg.

Discussion and Lab

Section 101 -- Thur 3-3:50 PM, (Discussion) Phys. 4208, Lab. 4-5:50 PM, Phys 3314

TA: Solomon Granor, Z-4223, sgramov@umd.edu

Section 102 -- Thur 11-11:50 AM, (Discussion) Phys. 1219, Lab. 12-13:50, Phys. 3314

TA: Brian Grooman, Z-4223, grooman1@umd.edu

Textbook: Serway & Jewett, Physics for Scientist and Engineers with Modern Physics,
Vol. 2, 6th Edition and
University of Maryland, Physics 142 Laboratory Manual

There will be:

- (1) 11 laboratory experiments with reports due at the end of each lab. Two makeup labs (Oct 12 and Dec 7). **You must do all the laboratory experiments and deliver reports.** They will count for 20% of the final grade.
- (2) 14 weekly problem sets due at the discussion session starting Sept. 7 session. These will count for 20% of final grade.
- (3) There will be weekly quizzes at discussion session, which will count for 10% of final grade.
- (4) There will be **three midterm** exams each will count 10% of final grade.
- (5) Final exam *December 16, 1:30-3:30 at 0405*, will count 20% of final grade.

Schedule

<u>WK 1-2</u>	8/30 – 9/8	Chapter 23: Problems 4, 8, 11, 22, 29, 49	DUE: Sept. 7
		Chapter 24: Problems 10, 14, 34, 42	DUE: Sept. 7
<u>WK 3</u>	9/11 – 9/15	Chapter 25: Problems 1, 8, 16, 32, 42, 52	DUE: Sept. 14
<u>WK 4</u>	9/15 – 9/22	Chapter 26: Problems 5, 6, 8, 16, 31	DUE: Sept. 21
<u>WK 5</u>	9/25 – 9/29	Chapter 27: Problems 1, 11, 13, 17, 26, 42	DUE: Sept. 28
<u>WK 6</u>	10/2 – 10/6	Chapter 28: Problems 4, 6, 10, 19, 36, 38, 48	DUE: Oct. 5
<i>1st Midterm September 25nd</i>			

WK 7 10/9 – 10/13 Chapter 29: Problems 4, 12, 15, 17, 20, 23, 33, 42, 45

WK 8 10/15 – 10/20 Chapter 30: Problems 1, 2, 14, 17, 23, 37, 39

WK 9 10/22 – 10/27 Chapter 31: Problems 6, 10, 17, 20, 21, 24, 28, 41

2nd Midterm October 13th

WK10 10/30 – 11/3 Chapter 32: Problems 1, 4, 9, 12, 17, 26, 46, 54, 55

WK11 11/6 – 11/10 Chapter 33: Problems 2, 3, 6, 13, 15, 22, 30, 36, 37, 38

WK12 11/12 – 11/17 Chapter 34: Problems, 2, 10, 11, 15, 18, 23, 26, 33, 39, 47

3rd Midterm November 17th

WK13 11/20 – 11/22 (23-24 Thanksgiving) – Chapter 35

WK14 11/27 – 12/1 Chapter 36-38

WK15 12/4 – 12/8 Chapter 39, 40

WK16 12/11 – 12/15 Chapter 42-44

Final Exam - December 16th - 1:30-3:30 - Room 0405

Additional Help

Slawsky Physics Clinic: In Slawsky Physics Clinic, retired senior physicists help students develop skills in solving physics problems.

Location and Time: Rooms 1208 and 1214, Physics Building, open 10 a.m. – 3 p.m. Monday – Friday. You may come at any time, but 2 – 3 p.m. every day is specifically reserved for the PHYS 142 students.