

PHYS1000 - Fall2006 - Bozack

PHYS 1000

Dave Letterman Physics

Fall 2006

Instructor: Dr. Michael J. Bozack, 310 Allison, 844-4363

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Texts: *Conceptual Physics*, Paul Hewitt, 10th ed; *Lecture Notes* (Sofy Copy Center); *Lab Manual* (Sofy Copy Center)

Meetings: MWF 8:00-8:50 am (bring breakfast snacks)

Week	Lecture	Material	Exercises	Tests
1 8/16 - 8/18	Ch. 2 Ch. 3	Newton's 1 st Law Linear Motion	2:1,9,15,20,23,24,47,49 3:3,6,15,17,22,28,30,36;P3,P10	
2 8/21 - 8/25	Ch. 4	Newton's 2 nd Law	4:8,9,10,11,34,39,53;P7,P8	
3 8/28 - 9/1	Ch. 5	Newton's 3 rd Law	5:5,7,15,24,44;P1,P2	
4 9/6 - 9/8	Ch. 6	Momentum	6:3,15,16,19,26,28,48;P5,P9	Exam 1 F, 9/8
5 9/11 - 9/15	Ch. 7	Energy	7:2,17,27,29,50,60;P3,P10	
6 9/18 - 9/22	Ch. 11	Atomic Nature	11:15,20,23,26,39,42;P1,P8	
7 9/25 - 9/29	Ch. 12	Solids	12:11,12,21,30,42,44;P2,P3	Exam 2 F, 9/29
8 10/2 - 10/6	Ch. 13	Liquids	13:4,5,7,15,22,24,45;P1,P4	
9 10/9 - 10/13	Ch. 14	Gases and Plasmas	14:15,21,23,31,41,50,58;P4,P7	
10 10/16 - 10/20	Ch. 15	Temperature	15:2,8,12,20,42,50;P3,P7	Exam 3 F, 10/20
11 10/23 - 10/27	Ch. 17 Ch. 22	Change of Phase Electrostatics	17:3,12,13,23,38,46;P1,P6 22:1,11,12,16,21,32,44;P1,P5	
12 10/30 - 11/3	Ch. 23	Electric Current	23:9,14,23,25,28,46;P4,P7	
13 11/6 - 11/10	Ch. 24	Magnetism	24:7,11,16,31,38,43	Exam 4 F, 11/10
14 11/13 - 11/17	Ch. 26	Properties of Light	26:12,22,28,33,36,43,46, 49;P3,P5	
15 11/20 - 11/24	Home to Mom's Cooking			
16 11/27 - 12/6	Ch. 33	Radioactivity	33:4,7,9,12,23,27, 28;P2,P3	

Final Exam (comprehensive): Tuesday, December 12, 11:00 - 1:30 p.m.

Grading: The final grade will be determined by the following scheme.

Exams (Best 3)	45%
Final Exam	30%
Lab	15%
Homework	10%
Total	100%

PS 1000 is **not** graded on an absolute grading system (e.g., 90-100% = A etc) but rather on a relative (curved) system, where performance is compared to other students in the course based on the class average. After each test I post a scale of scores vs letter grades so each student knows what a score of say, 68, on a test means in terms of a letter grade. This enables you to know how you are doing in the course. For the final course grade, I apply the weighting factors above to each grade component, drop your lowest test score, and generate a total raw score for each student that is compared to the class average raw score. The calculation is completely based on numbers and there is no bias. Exams will cover material covered in class, lab, and homework.

Homework: Homework is to be neatly written and presented in an organized manner. Sentences or phrases are to be used to describe what you are doing. Having the right answer is not sufficient. No words, no credit. It is due at the beginning of class on the day assigned. The first page should have your full name written neatly in the upper right hand corner. Each subsequent page should have your initials in the upper right hand corner and stapled if possible. **No late homework will be accepted without a valid written excuse.**

Attendance Bonus: I will take attendance five times during the semester (on dates chosen randomly). If you are in attendance at least 4 of 5 times, and your final grade turns out to be within two students of the borderline between two grades, I will give you the *higher* grade.

Excused Absences: In the event of an excused absence, appropriate scaling of other grades will be used to assign a grade for the missed test and/or homework. **Under no circumstances** will makeup exams be given. If you have a legitimate excuse, provide me with written request including any documentation available. For example, "Please excuse name of student from specific test that was held on give date because provide explanation and supporting evidence."

For those of you with Monday labs, there will be no lab/activity on Labor Day. It can be made up on the Friday of that week, the next Friday, or at the end of the semester.

Office Hours: Anytime. Just drop by or make an appointment.

Laboratory: We have a set of new labs that are geared toward PHYS 1000, available at Soft Copy Center. The lab schedule and room numbers (usually Parker 122) will be listed outside the Physics Lab Office on the first floor of Parker Hall as well as in a handout that will be distributed.

Lab Times:

Lab Section 1 meets Tuesday, 12:30-2:30 pm
Lab Section 2 meets Thursday, 12:30-2:30 pm
Lab Section 3 meets Tuesday, 2:30-4:30 pm
Lab Section 4 meets Thursday, 2:30-4:30 pm

Frequently Heard Comments:

- Is this on the test? Answer: yes.
- The questions on the test are not like those in the homework. Response: To the extent that you understand the concepts of physics, you will realize that they are more closely related than you might have thought. Also, they are not supposed to be the same questions.
- I studied, read the book, read the notes, did the homework, came to class, and understood the labs, yet I'm still not doing well in the course. Response: If that is true, there is something wrong with the way you are approaching the class. Please come and see me early in the semester so we can attempt to fix the situation. Don't wait too long to ask for help.