

Physics for Poets Fall 2005

Instructor: Dr. Howard L. Brooks

Office: 241 JSMC

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Hours: 8:30-10 MWF

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1 – 2 MF, or by appointment

Texts: INQUIRY INTO PHYSICS, 5TH Edition by Vern Ostdiek & Donald Bord
LABORATORY MANUAL FOR LIBERAL ARTS PHYSICS, 2ND Edition
By Hobson, Baehr and Swallow

GOALS OF THE COURSE:

1. You will learn about the nature of scientific inquiry in physics.
2. You will learn about the changing models that we have created to explain the physical world.
3. You will learn the basics of our current understanding of the nature of the physical world.

GRADING:

From the University 2004-05 catalog (p. 198) grades will be assigned according to the following definitions:

A, A-	Achievement of exceptionally high merit
B+, B, B-	Achievement at a level superior to the basic level
C+, C, C-	Basic achievement
D+, D, D-	Achievement that falls short of satisfying the quantitative and qualitative requirements, yet warrants credit.
F	Failure: the achievement fails completely to meet course requirements. The student receives no credit.

Your grade will be determined by your performance in the following areas:

Attendance and Participation: You must attend every class and laboratory session. The only excused absences will be for illness and University authorized travel for extracurricular activities. You must do more than just come to class. I expect you to participate in discussions and contribute to any group work done in class. (5 percent of the final grade)

Homework: You must successfully answer the assigned sets of homework problems from the end of each chapter. Late assignments will be accepted for reduced credit (20% reduction per class day late). (5 percent of the final grade)

Laboratory: The labs will relate to the concepts covered in the class sessions. You will complete a separate laboratory manual. The lab manual will be collected three times during the semester for evaluation. (10 percent of the final grade)

Exams: Each of the four exams will count for 20% of your grade. The final exam will be comprehensive.

Q Competency: A separate evaluation for quantitative reasoning competency will be determined by evaluating your performance on quantitative activities in all aspects of the course. It is possible to pass the course and not earn the Q. You cannot fail the course and earn the Q.

DAILY COURSE OUTLINE

	Monday	Wednesday	Thursday	Friday
Aug 22-26		Course Introduction	Lab Manual Exp. 9, 10	Prologue Ch. 1.1
Aug 29 – Sept 2	Ch.1.2-1.4	Ch. 2.1 – 2.3 HW#1 DUE	Lab Manual Exp. 11, 12	Ch. 2.4 – 2.6
Sept 5 – 9	Ch. 2.7 – 2.9	Ch.3.1 – 3.3 HW #2 DUE	Lab Manual Exp. 13, 14	Ch. 3.4 – 3.6
Sept 12 - 16	Ch. 3.7 -3.8	REVIEW HW #3 DUE	EXAM I COLLECT LAB MANUALS	Ch. 4.1 - 4.2
Sept 19 -23	Ch. 4.3 - 4.4	Ch. 4.5 – 4.7	Lab Manual Exp. 16, 17	Ch. 5.1 – 5.2 HW #4 DUE
Sept 26 -30	Ch. 5.3 -5.5	Ch. 5.6 - 5.7	Lab Manual Exp. 18, 19	Ch. 6.1 - 6.2 HW #5 DUE
Oct 3-7	NO CLASS	Ch. 6.3 - 6.5	Lab Manual Exp. 22, 23	Ch. 6.6
Oct 10-14	NO CLASS	REVIEW HW #6 DUE	EXAM II COLLECT LAB MANUALS	Ch.7.1 -7.2
Oct 17 -21	FALL BREAK	FALL BREAK	FALL BREAK	FALL BREAK
Oct 24 - 28	Ch. 7.3 – 7.4	Ch. 7.5 -7.6	Lab Manual Exp. 26, 27	Ch. 8.1 – 8.3 HW #7 DUE
Oct 31 – Nov 4	Ch.8.4 - 8.5	Ch. 8.6 – 8.7	Lab Manual Exp. 24, 25	Ch. 9.1 – 9.3 HW #8 DUE
Nov 7 -11	Ch. 9.4 – 9.7	REVIEW HW #9 DUE	EXAM III	NO CLASS
Nov 14-18	Ch.10.1 – 10.3	Ch.10.4 – 10.6	Lab Manual Exp. 29	Ch. 10.7 – 10.8
Nov 21 - 25	Ch.11.1 – 11.2 HW #10 DUE	THANKSGIVING BREAK	THANKSGIVING BREAK	THANKSGIVING BREAK
Nov 28 – Dec 2	Ch. 11.3 – 11.5	Ch. 11.6 – 11.7	Lab Manual Exp. 31	Ch.12.1 -12.2 HW #11 DUE
Dec 5 - 9	Ch.12.3 – 12.4	Ch. 12.5	NO LAB	REVIEW HW #12 DUE COLLECT LAB MANUALS
FINAL EXAM FRIDAY, DECEMBER 16 1 – 4 PM				