

PHYS 134–01, Fall 2006

Introductory Physics III

Instructor: Dr. Michael C Sostarecz
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HT 105
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Office hours: MWF 10:00 am - 12:00 pm in HT 105. Also, drop-in or schedule an appointment.

Required Textbook

Fundamentals of Physics, 7th Ed. by Halliday, Resnick, and Walker

Overview:

This course will continue the introduction to physics provided by PHYS 130 and PHYS 132. Topics will include oscillations and waves, geometrical optics, and interference and diffraction.

Requirements:

Chapters listed on the course schedule should be read before the material is covered in class.

Weekly homework will be assigned. This allows you to work with the material covered in class, and to develop your understanding of the subject material. Problems will be collected the following week and answer keys will be provided.

There will be four midterm examinations. The midterms are tentatively scheduled for

Tuesday, September 12

Thursday, October 12

Tuesday, November 14

Thursday, December 12*

The Fourth Midterm Exam will be a take-home exam. The first three will be held during class.

The Final Exam will be cumulative and will be held during Finals Week.

Plan to take the exams on these dates. Make-ups will be given only in exceptional circumstances.

Grading:

Grading will be based on the homework, four midterm exams, and a comprehensive final in roughly these proportions:

40% Homework

40% Midterm exams

20% Final exam

The following letter grades are guaranteed if you earn the corresponding percentage by the end of the semester:

100 ← A → 94 ← A- → 91 ← B+ → 88 ← B → 82 ← B- → 79 ← C+ → 76

76 ← C → 70 ← C- → 67 ← D+ → 64 ← D → 58 ← D- → 55 ← F → 0

Attendance:

You will be expected to attend all classes. Please contact me should you fall ill or have difficulties in attending class. You will be held responsible for all material covered in your absence, and you will be required to complete any work missed within a reasonable amount of time. For any school or sports activity, please notify me in advance of your absence.

Academic Misconduct:

Unless specifically stated otherwise, all exams and quizzes are to be considered to be individual assignments. Submission of any work for credit which is not entirely your own constitutes academic misconduct and will not be tolerated. All persons involved will receive a zero for that assignment, and will be reported to the Dean's office. There is no such a thing as a "minor incident of cheating" - any academic dishonesty will be reported.

PHYS 134-01 Tentative Schedule

| Tuesday | Thursday |
|--|--|
| 8/29 15.1, 15.2, 15.3 Oscillations | 9/1 15.4, 15.5, 15.6 Oscillations |
| 9/5 15.7, 15.8, 15.9 Oscillations | 9/7 Review Oscillations |
| 9/12 Exam 1 Oscillations | 9/14 16.1, 16.2, 16.3, 16.4 Waves - I |
| 9/19 16.5, 16.6, 16.7 Waves - I | 9/21 16.8, 16.9, 16.10 Waves - I |
| 9/26 16.11, 16.12, 16.13 Waves - I | 9/28 17.1, 17.2, 17.3 Waves - II |
| 10/3 17.4, 17.5, 17.6 Waves - II | 10/5 17.7, 17.8 Waves - II |
| 10/10 17.9, 17.10, Review Waves - II | 10/12 Exam 2 Waves |
| 10/17 Fall Break No Classes | 10/19 33.1, 33.2, 33.3 Electromagnetic Waves |
| 10/24 33.4, 33.5, 33.6 Electromagnetic Waves | 10/26 33.7, 33.8 Electromagnetic Waves |
| 10/31 33.9, 33.10, 34.1, 34.2 Electromagnetic Waves & Images | 11/2 34.3, 34.4, 34.5 Images |
| 11/7 34.6, 34.7, 34.8 Images | 11/9 Review |
| 11/14 Exam 3 Electromagnetic Waves & Images | 11/16 35.1, 35.2, 35.3 Interference |
| 11/21 35.4, 35.5, 35.6 Interference | 11/23 Thanksgiving Break No Classes |
| 11/28 35.7, 35.8 Interference | 11/30 36.1, 36.2, 36.3 Diffraction |
| 12/5 36.4, 36.5, 36.6 Diffraction | 12/7 36.7, 36.8, 36.9 Diffraction |
| 12/12 Review for Final Exam 4 Due | 12/14 Reading Day No Class |

Final Exam: Saturday, December 16 at 1:00pm in Room TBA