

Course Grading Policy

Activity Sheets: 1 point each (You must be present during the entire period to receive credit for the activity sheet.)	18
Lecture video summaries: 1 point each for the 8 videos shown	8
Assigned exercise questions: $\frac{1}{2}$ point each	9
2 Midterm exams: 30 points each	60
Final exam: 45 points	<u>45</u>
Total points:	140

(Note: No make-up exams or early final exams are ever given. If you have a conflict with the exam dates listed in the syllabus, inform your instructor immediately.)

Course Schedule and Assignments

Winter Quarter, 2009

Classes meet **twice each week** (Mon/Weds or Tues/Thurs) **for a 2-hour class** in 2005 Smith

During class, your instructor will

- explain physics concepts
- perform demonstrations to illustrate the concepts
- guide you in hands-on activities

Students complete an **activity sheet** in class. These sheets are turned in at the end of class.

Two **homework exercises** are assigned from each chapter. Homework exercises are due at the beginning of the next class. The assigned exercises are listed in the syllabus.

All 104 sections meet on **Tuesdays** at **7:00 pm** to see a one-hour video in 131 Hitchcock Hall

Students write a **summary of the video** to turn in at your next class meeting.

Schedule

Tuesday, 1/6

Attend video #1 at 7:00 pm in 131 Hitchcock.
Take notes using the video question sheet.
Write a summary of the video.

Wednesday, 1/7, or Thursday, 1/8

1. Read chapter 1 before class.
2. Turn in your summary of video I at the beginning of class.
3. Complete Activity Sheet #1 during class. Turn it in at the end of the period.

Monday, 1/12, or Tuesday, 1/13

1. Read Chapter 2 before coming to class.
2. Turn in answers to the two assigned exercise questions from Chapter 1 at the beginning of class. Write explanations and show your calculations for each answer.
3. In class, complete Activity Sheet #2. Turn it in at the end of class.

Lecture Videos

DVDs of the 1-hour lecture videos shown on Tuesdays at 7:00 pm are on closed reserve at the

Science and Engineering Library reserve desk

- ◆ DVDs may be checked out for two hours.
- ◆ OSU student ID is required.
- ◆ If you use the library's computers to play the DVDs, bring your own headphones and see the instructions on the inside of the DVD case.

Science Library reserve desk hours:

8:00 am - 11:00 pm every day (including weekends)

Course Materials

Physics 104 **Textbooks** and **Activity books** are sold **only** at UniPrint at Tuttle Park Place

- ◆ UniPrint at Tuttle Park Place is at 2055 Millikin Way in the mall north of the OSU Main Bookstore.
- ◆ You can order books on-line and pick up the books at the UniPrint store. Visit <http://uniprint.osu.edu/>
- ◆ Check the UniPrint web site for extended store hours during the first two weeks of the quarter.

Physics 104 Web Site

www.physics.ohio-state.edu/104/

or go to

www.physics.ohio-state.edu

click on "courses" and select "104"

The web site contains

- Course syllabus and assignments
- Activity Sheets
- Lecture video questions
- Overhead transparencies used in class
- Answers to activity sheets and exercises from the book (posted after all assignments are turned in)

You can also use the web site to send email (anonymous or with your name) to each instructor.

Physics 104 is a Physical Science course in the Natural Science category of the GEC.

Goals/Rationale:

Courses in natural sciences foster an understanding of the principles, theories and methods of modern science, the relationship between science and technology, and the effects of science and technology on the environment.

Learning Objectives:

- 1.** Students understand the basic facts, principles, theories and methods of modern science.
- 2.** Students learn key events in the history of science.
- 3.** Students provide examples of the inter-dependence of scientific and technological developments.
- 4.** Students discuss social and philosophical implications of scientific discoveries and understand the potential of science and technology to address problems of the contemporary world.