

Course Schedule and Assignments

Spring Quarter 2009

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

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 103 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 for Spring Quarter 2009

Tuesday, March 31

Attend lecture video #1 at 7:00 pm. **Note:** The first video is shown in **1153 Smith Lab**. All other videos will be shown in 131 Hitchcock Hall. Take notes using the video question sheet in your activity book (page 75). Write a summary of the video to turn in.

Wednesday/Thursday, April 1 or 2

1. Read textbook Chapter 1 before class.
2. Complete Activity Sheet #1 during class. Turn it in at the end of the period.

Monday/Tuesday, April 6 or 7

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. Turn in your summary of the first lecture video at the beginning of class.
4. In class, complete Activity Sheet #2. Turn it in at the end of class.

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	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.)

Alternate Assignment for Group Meeting 1 held on March 31, 2009

Instead of viewing the first lecture video, "Why Physics" and writing a summary of that video, Physics 103 students may choose to attend the Smith Lecture held on March 31, 2009, in 131 Hitchcock Hall

Students who choose to attend the Smith Lecture will write at least two paragraphs summarizing their reaction to the lecture. This summary will be worth 1 point and should be turned in on April 6 or 7.

Students who attend the Smith Lecture and turn in a two-paragraph summary do NOT need to view the video, "Why Physics?"

Physics 103 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.

How to Succeed in Physics 103

- Don't miss class or lecture videos
- Turn in all homework assignments on time.
- Read the textbook chapter before coming to class. (Each textbook chapter corresponds to one class period.)
- Write answers to the **Concept Check** questions in your textbook.
- Be sure to ask questions about anything you don't understand.
- Study the sample exams in your **Activity Book** before each midterm exam.

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:

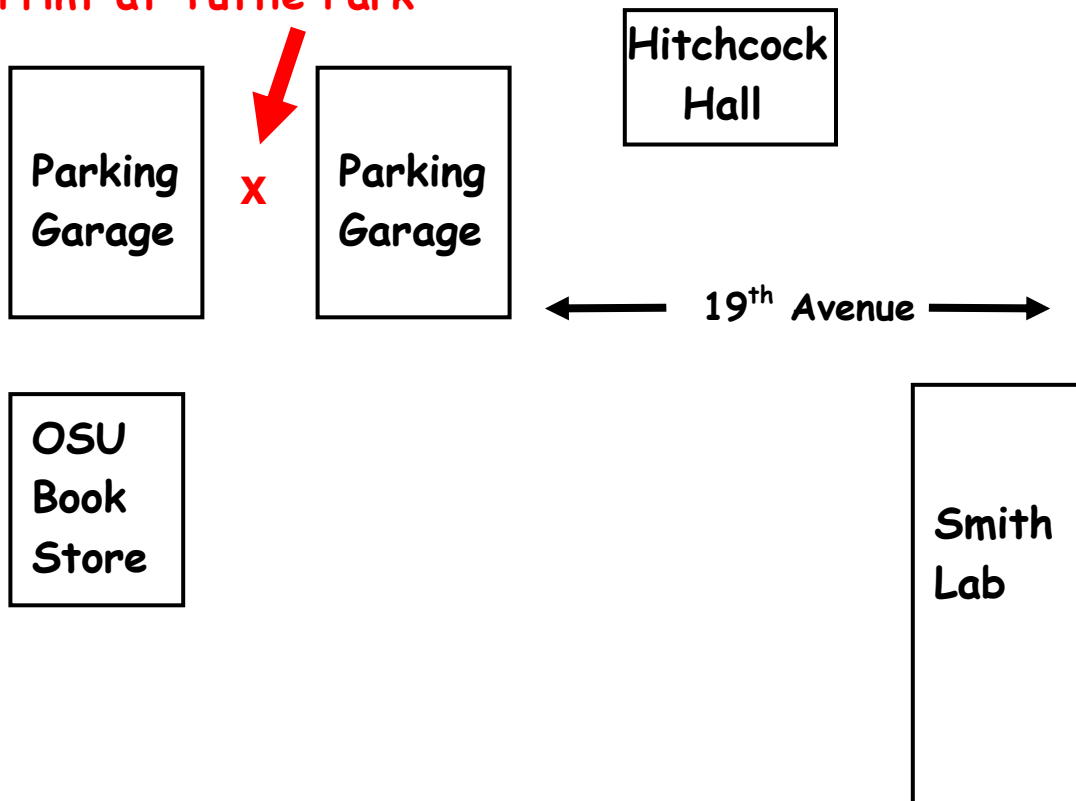
8:00 am - 11:00 pm every day (including weekends)

Course Materials

Physics 103 Textbooks and Activity Books are sold **only** at the UniPrint location at Tuttle Park Place.

- ◆ Located at 2055 Millikin Way in the mall between the parking garages north of the OSU Main Bookstore.
- ◆ You can avoid waiting in long lines by ordering your books on line at uniprint.osu.edu

UniPrint at Tuttle Park



Physics 103 Web Site

www.physics.ohio-state.edu/103/

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 the 103 instructors.