

Physics 103 Spring Qtr 2012

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.

Physics 103 Textbooks and Activity Books are sold **only** at the OSU Barnes and Noble bookstore. Order on line at ohiostate.bncollege.com/

Lecture videos are shown on **Tuesdays at 7:00 pm** in 1153 Smith Lab. Students write a **summary of the video** to turn in at your next class meeting.

Schedule for Spring Quarter 2012

Tuesday, March 27

Attend lecture video #1 at 7:00 pm in **1153 Smith Lab**. Take notes using the video question sheet in your activity book (page 75). Write a summary of the video to turn in.

Wednesday/Thursday, March 28 or 29

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 2 or 3

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.)

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)

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.