

PHY203 – Spring 2009
SUNY College at Cortland - Physics Department

Course Description

In this course we will cover fundamental principles of thermodynamics, optics, and sound using methods of calculus. Topics include heat, work, and energy of thermodynamics systems, wave motion, geometrical and physical optics, and sound.

Pre-requisite: PHY 202.

Please keep current with the reading assignments and homeworks. Do not fall behind the class. If you need extra help please come and see me.

Course Textbook

The textbook is "University Physics" 12th edition, by Young and Freedman.
It is a good idea to have your book with you in class along with a calculator.

Course Information

Mon, Wed, Fri 9:10-10:00am, Bowers 154
3 credit hours

Professor Information

Dr. Aphrodite Ahmadi, Assistant Professor of Physics
Office: Bowers 133
Phone: (607) 753-2919 (EMERGENCY ONLY)
Email: Aphrodite.Ahmadi@cortland.edu
Office Hours: Mon, Wed 10:30-11:30am and 12:00-1:00pm or by appointment.

Grading

2 Midterm Exams	25% each
Final Exam	25%
Homeworks	25% total

You need 60% to pass, tentative grading scale:

90-100	A
80-89	B
70-79	C
60-69	D
Below 60	F

Midterm Exams dates:

Mon 03/02	EXAM I (Chapters: 14, 17, 18, 19, 20)
Mon 03/30	EXAM II (Chapters: 15, 16)

Final Exam date (Chapters: 33, 34, 35, 36):

Friday, May 8 10:30am-12:30pm

Homework Assignments:

They will be always due one week from the day they are handed out. You will have one full week to work on your problem sets, late homeworks will lose 10% per day of class.

Attendance Policy

Class attendance is very important and affects your grade. You are responsible for everything discussed and assigned in class. The exams cover everything discussed in class and material may be covered in class that are not in the textbook, so attendance is highly recommended.

Extra Assistance

Please feel free to see me during office hours or by appointment to discuss any difficulties or questions you may have about the lectures, material in your textbook and/or homeworks.

Working with Friends

In general, I encourage you to work with friends and learn together with classmates. The preparation of the written assignments, however, must be individual work. Do it ALONE. It is easy to detect copying on the homeworks. Attached is a part of chapter 340 of the college handbook on academic integrity:

340.01 STATEMENT OF ACADEMIC INTEGRITY

The College is an academic community whose mission is to promote scholarship through the acquisition, preservation and transmission of knowledge. Fundamental to this goal is the institution's dedication to academic integrity. Providing an atmosphere that promotes honesty and the free exchange of ideas is the essence of academic integrity. In this setting all members of the institution have an obligation to uphold high intellectual and ethical standards.

It is the responsibility of the faculty to impart not only knowledge but also respect for knowledge. It is also the professional responsibility of all faculty members to explain the importance of honesty and respect for knowledge in order to ensure an academic environment that encourages integrity. To establish such an environment, students must recognize that their role in their education is active; they are responsible for their own learning. Specifically, it is the responsibility of students to protect their own work from inappropriate use by others and to protect the work of other people by providing proper citation of ideas and research findings to the appropriate source. This includes the obligation to preserve all educational resources, thereby permitting full and equal access to knowledge.

This academic community takes seriously its responsibilities regarding academic honesty. Academic integrity is absolutely essential to ensure the validity of the grading system and maintain high standards of academic excellence. In addition, all members of the academic community must exhibit behavior exemplifying academic honesty and encourage such behavior in others.

(For instances of violations of academic integrity and procedures for handling academic dishonesty please read the entire chapter 340 of the college handbook.)

Students with Disability

If you are a student with a disability and wish to request accommodations, please contact the Office of Student Disability Services located in B-40 Van Hoesen or call (607) 753-2066 for an appointment. Information regarding your disability will be treated in a confidential manner. Because many accommodations require early planning, requests for accommodations should be made as early as possible.

PHY203 - Tentative Course Calendar, Spring 2009

Date	Topic
Wed 01/21, Fri 01/23	Introduction, Chapter 14 (Fluid Mechanics)
Mon 01/26, Wed 01/28	Chapter 17 (Temperature and Heat)
Mon 02/02, Wed 02/04, Mon 02/09	Chapter 18 (Thermal Properties of Matter)
Wed 02/11	Problem Solving (Chapters 14, 17, 18) / Chapter 19 (1 st Law of Thermodynamics)
Mon 02/16, Wed 02/18	Chapter 19 (1 st Law of Thermodynamics)
Mon 02/23, Wed 02/25	Chapter 20 (2 nd Law of Thermodynamics) / Problem Solving (Chapters 19, 20)
Mon 03/02	EXAM I (Chapters: 14, 17, 18, 19, 20)
Wed 03/04	Review of Exam I / Chapter 15 (Mechanical Waves)
Mon 03/09, Wed 03/11	Spring Break
Mon 03/16, Wed 03/18	Chapter 15 (Mechanical Waves)
Mon 03/23, Wed 03/25	Chapter 16 (Sound and Hearing) / Problem Solving (Chapters 15, 16)
Mon 03/30	EXAM II (Chapters: 15, 16)
Wed 04/01	Review of Exam II / Chapter 33 (The Nature and Propagation of Light)
Mon 04/06, Wed 04/08	Chapter 33 (The Nature and Propagation of Light)
Mon 04/13, Wed 04/15	Chapter 34 (Geometric Optics, Optical Instruments) / Problem Solving (Chapters 33, 34)
Mon 04/20, Wed 04/22	Chapter 35 (Interference)
Mon 04/27, Wed 04/29	Chapter 36 (Diffraction)
Mon 05/04	Problem Solving (Chapters 35, 36)
Fri 05/08	FINAL EXAM (Chapters: 33, 34, 35, 36) 10:30am-12:30pm