

Physics 102 - Fall 2003

Description: Second part of the Introductory Physics course, including Electricity, Magnetism, Optics, Relativity and Modern Physics.

Prerequisites: Physics 101.

Textbook: Physics (5th edition) by D.C. Giancoli.

Classroom: 200 Gallalee, Tu/Th 9:30 am – 10:45 am.

Instructor: Prof. Ion Stancu (Office: 202C Gallalee, E-mail: ion.stancu@ua.edu).

Office Hours: Tu/Th 2:00 pm – 3:15 pm (or by appointment).

Attendance: Regular attendance is strongly recommended for learning the subject matter and doing well in the exams. You should also bring your textbooks, since some problems will be worked out in the classroom.

Homeworks: Problems will be assigned at the end of each chapter, and are due in class one week later. They count as 30% of the final grade.

Tests: There will be 2 in class tests, each counting for 15% of the final grade (15% + 15% = 30%). Each test will be on the material covered since the previous test, excluding the chapter immediately before the test. The final exam is comprehensive (it covers the entire material) and counts 20% toward the final grade. There will be no makeup exams.

- Midterm #1: Thursday, October 2nd, 2003 (in class).
- Midterm #2: Thursday, November 13th, 2003 (in class).
- Final exam: Thursday, December 11th, 8:00 – 10:30 am.

Lab: Part of the class (20% of the final grade). Starts on the week of September 2nd.

Grade: 20% lab + 30% HWs + 30% tests + 20% final.

Disability Accomodation: To request disability accomodations, please contact Disabilities Services (348-4285). After initial arrangements are made with this office contact your professor.

Academic Misconduct: All acts of dishonesty in any academic work constitute academic misconduct. Academic misconduct will be dealt with according to the procedure given in the Academic Misconduct Disciplinary Policy.

Physics 102 - Class Schedule
Fall 2003

Chapter 16	Electric Charge and Electric Field	Aug 21, Aug 26
Chapter 17	Electric Potential and Electric Energy	Sep 2, Sep 9
Chapter 18	Electric Currents	Sep 11, Sep 16
Chapter 19	DC Circuits	Sep 18, Sep 23
Chapter 20	Magnetism	Sep 25, Sep 30
Midterm 1		Oct 2 (15%)
Chapter 21	Electromagnetic Induction, Faraday's Law	Oct 7, Oct 9
Chapter 23	Light: Geometric Optics	Oct 21, Oct 23
Chapter 24	The Wave Nature of Light	Oct 28, Oct 30
Chapter 26	Special Theory of Relativity	Nov 4, Nov 11
Midterm 2		Nov 13 (15%)
Chapter 27	Early Quantum Theory	Nov 18, Nov 20
Chapter 28	Quantum Mechanics of Atoms	Nov 25, Dec 2
Chapter 30	Nuclear and Particle Physics	Dec 4
Final		Dec 11 (20%)