

PHYSICS 0111: Introduction to Physics II

Fall 2015

Lecture: MWF 1:00-1:50PM Office Hour: 2:00-3:00PM 5th Floor Allen Hall

Thaw 343 Alumni Hall **EXCEPT FOR 10/07 and 10/09—Scaife Hall AUD6**

Recitation with TA: As scheduled for your section

Contact Information:

Instructor: Melanie L. Good

Email: melanie.l.good@gmail.com or mlgood@pitt.edu

Prerequisites: Phys110 or greater

Textbook: *Physics 9th edition* by Cutnell and Johnson ISBN 978-0-470-87952-8 (Latest edition not required, but SOME edition of the text IS REQUIRED)

Other Required Materials: Scientific Calculator (in addition to phone or device apps, you need a separate stand-alone calculator)

Topics To Be Covered: Thermodynamics (Ch. 15), Waves and Sound (Ch.16), The Principle of Linear Superposition and Interference Phenomena (Ch.17), Electric Forces and Electric Fields (Ch.18), Electric Potential Energy and the Electric Potential (Ch.19), Electric Circuits (Ch.20), Magnetic Forces and Magnetic Fields (Ch.21), Electromagnetic Induction (Ch.22), Electromagnetic Waves (Ch.24), The Reflection of Light: Mirrors (Ch.25), The Refraction of Light: Lenses and Optical Instruments (Ch.26), Interference and the Wave Nature of Light (Ch.27), Special Relativity (Ch. 28—if time permits), Particles and Waves (Ch.29—if time permits)

Grading Scheme:

25% Quizzes

35% Midterm

40% Final Exam

up to +2% Bonus for Homework

Tentative Schedule*:

Sept 11 Add/Drop Ends

Sept 30 and Nov 2 tentative Midterm dates**

Oct 20 Monday classes meet on Tuesday

Oct 30 Withdrawal Ends

Dec 18 4-5:50PM Final Exam

***Midterm exam dates subject to change at the instructor's discretion.**

Class Policies:

- No EXAMS MAY BE MADE UP, but the lowest midterm exam is dropped.
- Make up quizzes are only granted at the discretion of your TA.
- Homework will be done on Lon-Capa, an online homework system:
<http://nplq1.phyast.pitt.edu/adm/login?domain=pitt> Completion of homework is optional, but exam questions will be heavily drawn from the homework questions. Also, completion of homework will serve as a small extra credit opportunity (up to 2% of overall grade).
- Please use my gmail address for all important communication.
- Your TA should be your first go-to contact person to discuss questions about homework or quizzes. Your instructor is happy to help if your TA cannot resolve your questions. Also your instructor can be contacted directly for questions about exams, in-class questions, or overall course or grading concerns.

Honor Code:

Students are expected to uphold the University's standard of conduct relating to academic honesty. Students assume full responsibility for the content and integrity of the academic work they submit. Students shall be guilty of violating the honor code if they:

1. represent the work of others as their own
2. use or obtain unauthorized assistance in any academic work
3. give unauthorized assistance to other students
4. modify, without instructor approval, an examination, paper, record, or report for the purpose of obtaining additional credit
5. misrepresent the content of submitted work

Any student violating the honor code is subject to receive a failing grade for the course and will be reported to the Vice President of Academic Affairs.

Disability Services:

If you have a disability that requires special testing accommodations or other classroom modifications, you need to notify both the instructor and Disability Resources and Services no later than the second week of the term. You may be asked to provide documentation of your disability to determine the appropriateness of accommodations. To notify Disability Resources and Services, call (412) 648-7890 to schedule an appointment. The Disability Resources and Services office is located at 140 William Pitt Union, and is open Monday-Friday from 8:30AM to 5:00PM.

This syllabus does not address every possible aspect of the course and is subject to alterations.