

Physics 142
Electricity and Magnetism (Honors)
Fall 2013

Prof. Lynne H. Orr
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BL451, x58528

Office hours: Tuesday 12:30–1:30pm and by appointment

- Class Sessions

Lectures: TR 11:05 am – 12:20 pm, Hoyt Auditorium

Workshops will be held weekly. You are strongly encouraged to attend one of the following sessions, which you should already have signed up for through the registrar's website:

Monday 2:00-3:00pm, Meliora 218

Monday 6:15-7:15pm, Bausch & Lomb 269

Tuesday 4:50-5:50pm, Computer Studies Building 209

Wednesday 4:50-5:50pm, Bausch & Lomb 270

Workshops will begin on Monday September 9.

Labs will be held biweekly; you must attend the session for which you signed up through the registrar's website. For information about the labs and to access the lab manual, go to <http://www.pas.rochester.edu/~physlabs/> and for inquiries about the labs send mail to physlabs@pas.rochester.edu.

A labs begin the week of September 9; **B** labs begin the week of September 16.

You must receive a passing grade on all five lab reports to pass this class. Lab grades will be folded in with your homework grades.

- Teaching Assistants

Ben Ecker (becker@z.rochester.edu) is the graduate teaching assistant for this course. **Marissa Adams** (madams15@u.rochester.edu) is the undergraduate teaching intern. Their office hours will be announced in class and posted on the course website.

- Text and books on reserve

The main text is *Physics For Engineers and Scientists, Third Edition, Volume 2*, by H.C. Ohanian and J.T. Markert.

The main text and the following books will be on reserve at the Physics, Optics, and Astronomy (POA) library (Bausch and Lomb 374): *The Feynman Lectures on Physics, Volume II*, by R.P. Feynman, *Electricity and Magnetism*, by E.M. Purcell, and *Introduction to Electrodynamics*, by D.J. Griffiths. The latter is

a slightly more advanced text, but it is clear and well organized, and will be helpful for vector calculus.

- Requirements and Grading

The final grade will be determined as follows:

- **30% Homework.** There will be weekly homework assignments, which will be due in the homework locker labeled Physics 142. Homework will be due on Fridays by 4pm; the first assignment will be due on Friday September 13. *Late homework will not be accepted*, but the lowest homework grade will be dropped. Graded homework will be returned in the workshops.
You are encouraged to discuss the homework problems with your classmates, professor, and teaching assistants. However, each student must write up his or her own solutions. Homework solutions will be posted on my.rochester.edu.
- **Lab.** You must receive a passing grade on all five lab reports to pass this class. Lab grades will be folded in with your homework grades.
- **40% Midterm Exams.** There will be two mid-term exams; each will count 20% of the final grade. The exams will be given in class in mid-October and mid-November, on dates to be announced in class.

We will make every attempt to grade exams fairly. However, if you believe there is a mistake in the grading, you may submit a brief *written* request for a regrade to Prof. Orr. Please note that we will regrade the entire exam and your score may go up or down as a result. No requests for regrades will be accepted later than the class period one week after the graded exams are returned.

- **30% Final Exam.** The final exam will be held as scheduled by the Registrar:

Saturday, December 21, 4:00pm.

There will be no makeups or early exams, so plan your travel accordingly.

- Course Web Page

<http://www.pas.rochester.edu/~orr/p142.html>