

Welcome to Physics 462

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Grader:

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Syllabus and Schedule

- Course Website:
http://ticc.mines.edu/csm/wiki/index.php/PHGN-462_Fall-2015
- This is a wiki and will include the syllabus, all homework assignments, a schedule, reading and video assignments.

Clicker Registration

- Everyone needs to register their clickers on the iClicker website. Even if you have before.
- Everybody gets two free clicker days to cover forgotten clickers, bad batteries, etc. That's automatic.
- Beyond those two needs to be part of an excused absence.

Textbook

- Pollack & Stump – same as intermediate
- Griffiths will be lightly supported

Office hours

Mondays 10-11:50am

Wednesdays 11-11:50am

Thursdays 10-11:50am

And by appointment

TA: Monday/Wednesday 12-1pm

Grading

- Lecture participation: 10 %
- Homework: 30 %
- 3 Exams: 20 % each

This is an upper-division class. Numerical averages will be low. That doesn't mean grades will be. Everything will be substantially curved if necessary. It will, however, remain possible (if difficult) to fail.

Homework

- Points are assigned substantially based on explanation, diagramming, and presentation. I posted an example of my own homework on the wiki.
- Working together is okay. Identical turn-ins are not okay. Using online (or offline) solutions manuals or stashes is specifically forbidden.
- If you want to contest a score, contact the grader. You may appeal the decision to me if you have a good reason.
- Note again that you will probably not need 90-100% on homeworks to do well in the class.

Exams

- Two mid-terms: One traditional written, one oral
- Half the class will take an oral exam the week of October 5th and a paper exam on the week of November 9th
- Other half will take a paper exam on the week of October 5th and an oral exam the week of November 9th
- More detail as test time approaches

- 50 minute in-class exam
- Time-limited take home
- Hybrid in-class/take home

Flipped classroom format

- Pre-lecture assignments: Reading or watching video lectures ahead of time
- In-class: Discussions, Q&A, clicker questions, activities as appropriate
- Not all lessons will have pre-assignments – watch wiki schedule

Content choice

- Relativistic E&M – Motivations, tensor formulation
- Wave optics – Interference, coherence, interferometry, maybe diffraction

Other activities

- Peer lecture activities
- You'll individually prepare a twelve-minute mini-lecture and deliver it to two peers, who'll provide feedback
- First peer lecture on Friday September 25th; more detail to come
- Recitations
- Bonus problems

Announcements

- First homework will be posted on the wiki by Friday, to be turned in at the start of the following Friday
- Suggested readings/videos will be posted on the wiki before each lecture
- Bring your clicker. Points count Friday