Welcome to Phys 140!

http://www.sos.siena.edu/~rfinn/GeneralPhysics2/

Moodle
phys140.moodle4free.com
Moodle

- Course Management Software
  - Similar to Blackboard with more features
- You must register
  - Go to phys140.moodle4free.com
  - Scroll down and click on General Physics 140
  - Click on “New Account” on the right side of the screen
  - An email will be sent to you. Click on link.
  - Enter Authentication key: sixideas
  - Fill out information and enter your section
  - That’s it!
- Two minute problems, syllabus, schedule, assignments, website link, syllabus
Textbook

- Six Ideas the Shaped Physics
  - By Thomas Moore

- Unit E and Q will be covered this semester
  - Unit E: Electricity and Magnetism
  - Unit Q: Waves, Optics, Quantum Mechanics
About the textbook

- Your textbook is your #1 resource!!!
- You are expected to come to class having read the assigned chapter(s).
- Daily and weekly homework problems will be assigned.
# Course Design and Grading

## Tests
- Exam 1, Feb. 17: 15%
- Exam 2, April 22: 15%
- Exam 3, April 30: 15%

## Labs
- You must pass lab to pass class!
- You must complete every lab to pass lab!

## Other
- Homework
- Two Minute Problems
- In-class assignments

## Final Exam
- Uniform exams for all sections
- Cumulative

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<tr>
<th>Tests</th>
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<th>Other</th>
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<tr>
<td>Exam 1, Feb. 17</td>
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Class Time

- 2 minute problems
- Group problems
- Lab-style activities
- SHORT lectures
- Classes will be ACTIVE! They will require you to participate and engage in the problems and activities.
Preparing for Class

- Assigned Reading
  - One or two chapters each class
  - Usually one chapter
  - Two chapters are assigned only over weekends
- Go through exercises in each chapter
  - Answers are provided at the end of the chapter
- Two minute problems due by midnight the night before class on Moodle
Notes

- Powerpoint slides will be posted on the web.
  - [http://www.sos.siena.edu/~rfinn/phys140s09/](http://www.sos.siena.edu/~rfinn/phys140s09/)
  - Moodle
    - [phys140.moodle4free.com](http://phys140.moodle4free.com)
- You need paper for working out in-class problems as well as additional material not covered in slides.
- Calculator!!!
- Binder is a good option.
Attendance Policy

- Students are expected to attend all classes and are responsible for all material covered in class, even when absent.
- Students should understand that some material discussed in class is not covered in the textbook.
- **In-class problems and activities can not be made up.**
Homework

- Homework will be listed on the schedule
- Problems will be selected from each chapter
- Homework will be collected and graded a few times throughout the semester
- Grading will be the same as last semester
  - 8 points per problem
    - 5 points for working out the problem
    - 3 points for presentation
- It’s your responsibility to keep up with homework even when it’s not collected
- Exams will be very similar to homework and group problems
Grading Homework – 5 point scale

- **Working out problem**
  - 5: good effort with correct results and reasoning
  - 4: a good effort with minor errors or a fair effort with no conceptual or math errors
  - 3: a good effort with modest conceptual errors and/or math errors or a fair effort with minor errors
  - 2: a fair effort involving modest conceptual errors or a good effort involving serious conceptual errors
  - 1: a very poor effort
  - 0: no initial effort
Grading Homework – 3 point scale

- Graded on 8 point scale with the extra three points devoted to quality of presentation issues
  - Adequate diagrams
  - Explanations of model
  - Units and vector notation
  - Algebra first (with symbols only), plug in numbers at the end

- Grading rubric -
  - 3: great presentation
  - 2: minor presentation problems
  - 1: major presentation problems
  - 0: extremely poor presentation
Guidelines for working homework problems

- **Given:**
  
- **Find:**
  
  - Draw a picture!
  - Write in pencil
  - Clearly label units
  - Cancel units when appropriate
  - WRITE NEATLY
  - Keep work in one column
  - Box answers
Extra Credit

- Opportunities announced throughout the semester
- Examples
  - Brown bag lunches
  - Seminars
  - Wikis
  - Podcasts
  - Etc.
Vectors Review

- We will be using vectors in our unit of Electricity and Magnetism.
- Complete the online activity for a refresher on vectors.
- Go to www.sos.siena.edu/~rfinn/phys140s09/vectors.html.
- OR
- Log into your moodle account and click on the vectors activity.