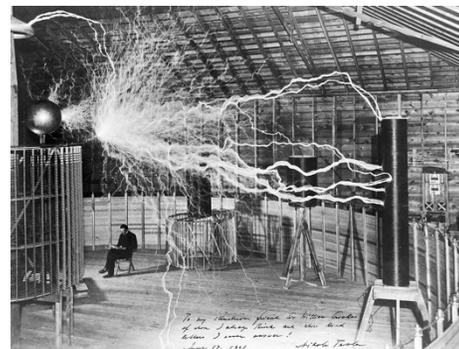


Welcome to PHYS 206, the third term of the Algebra based General Physics Lab Sequence at the University of Oregon. This term focuses on Electricity and Magnetism.

Learning Goals for this course:

- Understand the Process of Science.
- Draw meaningful conclusions from observations of the physical world.
- Construct knowledge in a way that does not rely on an outside authority.
- Develop accurate, evidence based, plain language explanations for many of the topics and phenomena discussed in the accompanying lecture course.
- Gain experience collecting and analyzing data, with the ability to extract physical quantities from fit parameters used in graphical representations.



In addition to these global learning goals, there will be learning outcomes associated with each of the labs intended to aid self-assessment. The labs we will be using have been designed to engage you an active role in your learning, self-assessment is an important form of internal feedback for this process. In a very real sense we will be aiming to participate in the process of science in order to learn science.

| Course information: CRN's 34777-37484 | | | | | |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------|---------------|--------------------|
| Pre/Co-requisite | Phys 202 | | | | |
| Lead Instructor | Dr. Billy Scannell, Office: 144 Willamette; scannell@uoregon.edu Office Hours: 2- 3pm M-F or by arrangement | | | | |
| Graduate Student Co-Instructors (Lead GEs by section) | CRN | Lead GE | email address | Office | Office Hour |
| | 34777 | Layne Bradshaw | layneb@uoregon.edu | 219 | |
| | 34778 | Saumya Biswas | saumyab@uoregon.edu | 220 | |
| | 34779 | Brian Cacha | bcacha@uoregon.edu | 220 | |
| | 34780 | Rachael Klaiss | rklaiss@uoregon.edu | 217 | |
| | 34781 | Joel Doss | jdoss@uoregon.edu | 453 | |
| | 34782 | Spencer Alexander | salexand@uoregon.edu | 155A | |
| | 34783 | Kara Merfeld | kmerfeld@uoregon.edu | 217 | |
| | 34784 | Rich Moraski | rmoraski@uoregon.edu | 217 | |
| All Offices in Willamette Hall | | | | | |
| Lab Book | There is no lab text. Labs will be available on Canvas each week. You are encouraged but not required to print them each week. (i.e. we will always have copies available) | | | | |
| Preparation | A completed pre-lab is worth 2 points of your lab grade. Prelabs associated with lab activities will be posted to Canvas no later than the Friday prior to that lab. The goal of the pre-lab is to help organize your current understanding of the topics investigated in the lab. A portion of your lab score will be based on annotation of the prelab after the lab has been completed. | | | | |
| Work in the Lab | Plan to stay in the lab until you can show your instructor the completed lab sheets with all questions answered completely. It is to your advantage to complete your lab write-up during or just after your lab section, when what transpired is still fresh in your mind. Short follow up quizzes to assist and assess conceptual understanding will also be posted to Canvas. Follow-ups will become available at 6pm Friday and must be submitted by Sunday at midnight. | | | | |

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|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------|----|-----------------------------------|----|---------------------------|-----|------------|-----|
| Deadlines | Labs, annotated Pre-labs, and Homework will be due Friday by 5:00PM. You will lose points if they are turned in late. Turn in your completed lab sheets and homework in the homework box slot associated with your lab section. | | | | | | | | | | |
| Grading | <p>Grades will be based on lab sheets, homework, lab follow up quizzes, and the laboratory final. You must attend and complete all labs. Makeup labs will only be granted on an excused absence which must be related to emergency type situation. Your lowest non-zero score from each category will be dropped.</p> <p>The relative weights will be as follows:</p> <table data-bbox="574 541 1576 898"> <tr> <td>Prep sheets: Graded on a 2 or 0 basis. A "2" means you have properly done the prep work</td> <td>16</td> </tr> <tr> <td>Lab sheets: Graded on a 0-8 basis. The grade will reflect the effort I perceive to have gone into the lab.</td> <td>64</td> </tr> <tr> <td>Follow up quizzes (5 points each)</td> <td>40</td> </tr> <tr> <td>Homework (20 points each)</td> <td>160</td> </tr> <tr> <td>Final Exam</td> <td>100</td> </tr> </table> <p>The Approximate Grade Distribution will be as follows: 380-333 = A, 332 - 285 = B, 284 - 238 = C, 237 - 191 = D, 170 or below = F.</p> | Prep sheets: Graded on a 2 or 0 basis. A "2" means you have properly done the prep work | 16 | Lab sheets: Graded on a 0-8 basis. The grade will reflect the effort I perceive to have gone into the lab. | 64 | Follow up quizzes (5 points each) | 40 | Homework (20 points each) | 160 | Final Exam | 100 |
| Prep sheets: Graded on a 2 or 0 basis. A "2" means you have properly done the prep work | 16 | | | | | | | | | | |
| Lab sheets: Graded on a 0-8 basis. The grade will reflect the effort I perceive to have gone into the lab. | 64 | | | | | | | | | | |
| Follow up quizzes (5 points each) | 40 | | | | | | | | | | |
| Homework (20 points each) | 160 | | | | | | | | | | |
| Final Exam | 100 | | | | | | | | | | |

ACADEMIC DISHONESTY:

Academic dishonesty has no place in this class. Students registered in this class are assumed to be giving their word to the college that they will not cheat. Therefore, generally all students proven guilty of academic dishonesty in this class will receive an F/N grade with the recommendation that they be suspended. (i.e. Don't waste time thinking about cheating, beyond deciding it's something you don't do.)

Final Exam:

The final exam takes place on Thursday, June 14th. It will be mainly conceptual in nature, testing your ability to apply lab type data and observations to the physics principles involved.

The exam will be in room TBA from 5 - 7 pm, Thursday, June 14

A tentative schedule of the term is on the following page:

| Week | Lab |
|--------------|------------------------|
| 1. 4/2-4/6 | Electrostatics |
| 2. 4/9-4/13 | \vec{E} , V and C |
| 3. 4/16-4/20 | Circuits I |
| 4. 4/23-4/27 | Circuits II |
| 5. 4/30-5/4 | Circuits III |
| 6. 5/7-5/11 | Magnetism |
| 7. 5/14-5/18 | Electromagnetism |
| 8. 5/21-5/25 | LEDs |
| 9. 5/28-6/1 | Make-up lab if needed |
| 10. 6/4 -6/8 | Review |
| Final | Thursday, June 14, 5pm |