

ELECTRICITY AND MAGNETISM I**MWF 11:00-11:50 in 1115 WIL**

- Instructor:** Jiong Qiu
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Office hours: 9:00-10:00, MWF, EPS 221
- Texts:** Introduction to Electrodynamics, 3rd edition, by Griffiths D. J.
- Web:** <http://solar.physics.montana.edu/qiuj/phys317>
Frequently check this page for detailed course schedules, reading assignments, homework problems and/or solutions.
- Description:** This course will introduce the theory of static electric and magnetic fields in vacuum and in matter and mathematic methods used to determine these fields.
- Prerequisite:** PHYS 231 or equivalent (mathematic methods for physics)
- Homework:** 1-2 problems will be given for each class, due at the next class. Answers will be distributed after due. Group discussions are encouraged, but you must turn in your own homework.
- Exams:** There will be 6 in-class quizzes. The final exam is comprehensive and will be given at **4:00-5:50 on Tuesday, December 15, in 1115 WIL**. Exams will be closed book. No calculators are allowed. You may bring a note card.
- Grading:**
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| Quizzes: | 50% (= 10% x best 5 out of 6) |
| Final exam: | 30% |
| Homework: | 20% |
- Outline:**
1. Vector Analysis
 2. Electrostatics
 3. Potentials
 4. Electric Fields in Matter
 5. Magnetostatics