

**PHYSICS 3420: Electricity and Magnetism I****Syllabus**

November 19, 2018

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Lecture Sessions:	MWF 10:00-10:50 am	Rm. 205, Physics Building
Instructor:	Xiaochao Zheng	email: xz5y@virginia.edu
Office Hours:	W 2-4pm, Th 1-3pm	Office 135, Physics Building
	walk-in welcome	
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Grader:	TBA	email:

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Prerequisites: PHYS1720 or 2415 and MATH4210, or instructor permission.

**Course Organization**

The course comprises lecture sessions, weekly homework assignments, two in-class midterm exams, and one final exam. There will be no TA for this course, but we will try to blend in some discussions and problem solving during lecture each week.

Homework assignments will be posted on Collab (under “Resources”) every Friday and due the following Friday **in lecture**. No late homework will be accepted unless a prior arrangement is made with the instructor. Copying other people’s homework solutions or solutions found elsewhere is prohibited.

We expect weekly classroom participation as follows: Every week we choose 2 volunteers from the class to summarize the course material of that week. The volunteer(s) will present the summary on Friday in front of the class, and the summary will be added to the Study Guide latexed by the instructor.

**Textbook and Other Study Material**

The **textbook** is “Introduction to Electrodynamics”, by David J. Griffiths, 4th edition (ISBN-13: 978-1108420419 ISBN-10: 1108420419; Cambridge) is recommended but 3rd edition (ISBN-13: 978-0138053260 ISBN-10: 013805326X; Prentice Hall) will work just fine. If homework problems are assigned from the book, I will type it up (or scan it) and include the actual problem in the assignment. **Lecture notes** and **homework solutions** will be posted on Collab.

**Exams**

There will be two midterm exams during class hours and one final exam. A Study Guide will be formed from classroom discussions and typed up by the instructor. The format of the exam (open- or close-book) is TBD at this moment.

**Grading**

The final grade will be determined as: 30% from Homework assignments and classroom participation; 15% each from two in-class midterm exams; and 40% from one final Exam.

**Class Calendar**

The course calendar along with important dates will be provided in a separate document.