

Syllabus version 09/27/2014, dates/times and other details may change

Electromagnetic Theory II (171.301) Fall 2014

1. Overview:

Electromagnetic Theory II is the one-semester course at the undergraduate junior level for physics majors. It covers electrostatics, magnetostatics, electrodynamics, electromagnetic waves, electromagnetic radiation, and related topics. This course does not cover special relativity, which is a subject of the 171.201 or 171.207 courses. Prerequisites include Physics 171.101-102 or 171.105-106, linear algebra and calculus 110.201-202. Corequisites include differential equations 110.302.

2. Lecture Schedule:

Instructor: Prof. Andrei Gritsan

Lectures: Tue/Thr, 10:30–11:45am, Bloomberg 274

Office hours: Wed 1:30-2:30pm (with exceptions), Bloomberg 433, email: gritsan@jhu.edu

3. Section Schedule:

Section 1: Kevin Grizzard (TA), Bloomberg 168, Fri, 10-10:50am

Office hours:

Section followup: Mon. 2-4pm, Bloomberg 465, email: kgrizz@pha.jhu.edu

Homework grading: Fri. 2-4pm, Bloomberg 465

Section 2: Nikolaus Hartman (TA), Bloomberg 168, Thr, 1:30-2:20pm

Office hours:

Section followup: Mon. 2-4pm, Bloomberg 341, email: nhartman@pha.jhu.edu

4. Homework:

Due in class weekly on Tuesday (unless otherwise noted)

Late homework: up to 48 hours late penalty 50% if TA accepts

5. Grade Policy:

25% homework assignments (weekly, due in class each Tuesday at 10:30am, see schedule)

25% midterm (October 14, 10:30am - 11:45am)

50% final exam (December 12, 9am - 12pm)

Late or missed work needs medical or other official documentation, decided case-by-case

6. Website:

<http://www.pha.jhu.edu/~gritsan/2014.171.301/>

7. Required Textbook:

Main textbook: "Introduction to Electrodynamics," 4th edition

Author: David J. Griffiths

Published: Pearson

8. Academic Integrity:

The strength of the university depends on academic and personal integrity. In this course, you must be honest and truthful. Ethical violations include cheating on exams, plagiarism, reuse of assignments, improper use of the Internet and electronic devices, unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonesty, and unfair competition.

In addition, the specific ethics guidelines for this course are:

- Homework is your individual assignment and direct use of work by others either from your class or outside is not allowed.
- Collaboration is encouraged in the section problem solving and outside of class for discussion of ideas, but not allowed in solving specific home assignments and during the exam.
- Students who have problems with the schedule or require extra time for completing the assignments should provide written documentation and discuss arrangements with the instructor as soon as the situation is known. These situations will be resolved on a case-by-case basis.

Report any violations you witness to the instructor. You may consult the associate dean of student affairs and/or the chairman of the Ethics Board beforehand. For more information, visit <http://ethics.jhu.edu>