

Electromagnetic Theory I, PHY6346

Course Information Fall 2020

Lecturer: C. B. Thorn, NPB 2069, Tel: 392-5701, email: thorn@phys.ufl.edu

Lectures: 3rd period (9:35-10:25)m via Zoom

Office Hours: MW, 4th period (10:40-11:30pm), via Zoom and by appointment.

Course webpage: <http://www.phys.ufl.edu/~thorn/homepage/eminfo.html>

Grader: Kazi Alam

email: kazi.a.alam@ufl.edu

Office hour:

Textbook: *Classical Electrodynamics*, J, David Jackson, 3rd Edition (Wiley, 1999)

Lectures: I will try to make my lectures self-contained and my lecture notes will be posted on the course webpage. Jackson's textbook will be a major source of homework problems and a valuable alternative perspective on the subject. Our goal is to cover most of the material in the first seven chapters of Jackson's book by the end of the first semester.

Examinations: A midterm exam (tentatively scheduled for 21 October 2020) will comprise 25% of your course grade and a final examination (TBA) will comprise 50% of your course grade. Both exams will be closed book.

Homework: Problem sets containing 3 or 4 problems will be assigned on approximately a weekly basis and will comprise 25% of your course grade. A score for each problem will be recorded: on a scale of 0 to 10, if handed in by the due date; on a scale of 0 to 8 if handed in within one week after the due date; and on a scale of 0 to 5 if more than 1 week late. This policy applies to each individual numbered problem.

Homework Presentation:

- 1) Your solutions must be in your own handwriting, scanned (or photographed) into a pdf file, and submitted electronically using the assignment tool in canvas (preferred) or by email to thorn@phys.ufl.edu
- 2) For 1 point, start the solution of each **numbered** problem (not the individual parts!) on a **new page**, headed by a **brief descriptive title**.
- 3) Prepare each solution as an essay explaining all important steps. Up to 9 points will be awarded for accuracy, clarity of reasoning and exposition.

Collaboration and penalty for copying: I encourage open discussion with your fellow students on the assigned problems. However, to truly understand it, you should be able to produce the solution on your own! Therefore, write up your solutions individually using your own reasoning in your own words. Any submitted solution, which is found to be essentially identical to another submitted solution or to a solution posted on the department webpages or elsewhere on the internet, will be given a score of zero.