

PHY 3323 Electromagnetism 1

(Spring 2012: Section 3799, 3 credits)

Tentative Syllabus (Version of 09 January 2012)

<http://www.phys.ufl.edu/~meisel/PHY3323-Spring-2012.html>

Instructor:

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Office Hours: posted online, <http://www.phys.ufl.edu/~meisel/schedule.htm>, and by appointment.

Email Correspondence with Instructor:

Professor Meisel will attempt to respond, within 24 hours, to email (**from UF email accounts**) if the message contains the name of the student. **Email will only be sent to UF Email addresses.**

Prerequisite:

Prereq: PHY 2049, PHY 2061 or the equivalent; MAP 2302 or the equivalent.

Meeting Times:

Mondays, Wednesdays, Fridays: 4th period (10:40 am – 11:30 am) in NPB 1002. Students are expected to attend the lecture sessions.

Textbook:

The “official” textbook that is required **“Introduction to Electrodynamics, 3rd edition”**, by [David J. Griffiths](http://academic.reed.edu/physics/faculty/griffiths.html) (<http://academic.reed.edu/physics/faculty/griffiths.html>). The UF bookstore offers a price of about \$166 for a new hardcover copy. In January 2012, I was able to find, via web-based vendors, the same hardcover book for about \$130 and a paperback version for about \$20. In addition, I was able to find the **2nd edition** of the same book for about \$30. At this time, as far as I can tell, there are only small changes between the two versions for the first six chapters, which we expect to cover in this course. If you anticipate taking the second semester of this course, which I am not scheduled to teach in the near future and which covers the material after Ch. 6, you may wish to know that there are some more significant differences between the two versions. Some notes about corrections are given on the author’s webpage, see <http://academic.reed.edu/physics/faculty/griffiths.html>.

Posting:

Materials and information concerning the course, including important dates and an “*in vivo*” schedule will be posted on the Course Webpage, see <http://www.phys.ufl.edu/~meisel/PHY3323-Spring-2012.html>.

Subject and Focus of the Course:

This course, “EM1”, covers the “statics” part of electrodynamics, which is describes in the first six chapters of the textbook. Next semester, “EM2” covers the “dynamics” in Chapter 7 and beyond.

Attendance:

Attendance in class is definitely expected since material outside the textbook may be presented. You are responsible for all material covered in the text and in class. All of this material is relevant for any examination, unless otherwise stated.

Grading:

During the course and during the regular class meeting times, there will be six chapter tests (30 points each for about 50 minutes). The highest 5 grades on the chapter tests will be counted toward the final grade. At the end of the course, there will be one two-hour, final examination (100 points, two hours) that is scheduled by the registrar. In class, there will be 50 points acquired with the HITT System (Remote Response System). In other words, the total number of available points is 300. Attendance for all tests, HITT exercises, examinations, and lectures is expected. Some extra-credit points may be available, and these opportunities will be described during the course. The letter grade assignment based on percentage of points earned will be discussed in class. Finally, the UF grading policies can be found at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Homework Problems:

Homework will not be collected or graded. However, questions on HITT questions, tests, and the final examination will be based on these types of problems and similar ones. Regularly throughout the course, students are encouraged to communicate questions by email for an in-class “review” session.

Make-Up HITT, Test, and Exam Policy:

Only in the event of extraordinary circumstances will students be allowed to take a make-up HITT, test, or exam. The only way students will be allowed to take a make-up exercise is if they have a legitimate excuse, accompanied by some documentation from a medical doctor, an attorney, or a UF official. Notes from family members are not acceptable. When possible, the student should inform the Instructor in advance of absences from graded assignments.

Academic Honesty:

Each student is expected to generate graded work by an individual and original effort. It is understood that some students benefit from “group study”. However, all quizzes, tests, and the final examination will be individual efforts, using only the materials authorized by the Instructor. Any violation of this policy will be treated according to UF policy (e.g. usually a zero grade is given on the assignment). Please review the University Policies on Academic Honesty, and helpful links are: <http://www.dso.ufl.edu/scsr/> and <http://www.dso.ufl.edu/studenthandbook/studentrights.php>. Note that the process is one that involves the faculty member and the students:

“In adopting this Honor Code, the students of the University of Florida recognize that academic honesty and integrity are fundamental values of the University community. Students who enroll at the University commit to holding themselves and their peers to the high standard of honor required by the Honor Code. Any individual who becomes aware of a violation of the Honor Code is bound by honor to take corrective action. A student-run Honor Court and faculty support are crucial to the success of the Honor Code. The quality of a University of Florida education is dependent upon the community acceptance and enforcement of the Honor Code.”

Accommodations and Advising:

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. The Dean of Students Office maintains a webpage at <http://www.dso.ufl.edu/>.

Advising and Counseling:

If you have any questions about your path to a BA or BS or “minor” in Physics, please consult with one of the undergraduate advisors in the department, see: <http://www.phys.ufl.edu/academics/undergraduate/>. The Department takes part in “UFTeach”, a program designed to develop the next generation of Florida’s math and science teachers. For more details see <http://ufteach.clas.ufl.edu>. Due to the nature of the environment at the university, it is not uncommon for students to experience stressful situations, and “study harder” sometimes does not seem to work. If you find yourself in this situation, you are encouraged to seek confidential counseling, see: <http://www.counseling.ufl.edu/cwc/>.

Incomplete Policy:

A grade of incomplete is typically given to students who endure a situation in which they are incapable of completing the coursework. The I-grade is not to be given to students who are simply dissatisfied with their performance in the course. If you find you are in a situation that might qualify you for an I-grade in this course and you want to pursue this potential option, then you must contact me immediately and be sure to have the necessary documentation from a medical doctor or an attorney. Again, letters from family members are not acceptable. A letter of understanding indicating when and how the incomplete grade will be made up will eventually be drafted and signed by the student and the Instructor.

Final Exam and Special Notes about the Syllabus:

Please note that the dates for all HITT exercises, tests, and chapter starts are TENTATIVE. The schedule will be finalized during the course and will be announced in class and posted to the “*in vivo*” schedule, see <http://www.phys.ufl.edu/~meisel/PHY3323-Spring-2012.html>. The Final Exam is NOT tentative and is: **Final Exam (Group 2C): Wednesday, 02 May, 12:30 to 2:30 pm, NPB 1002, and the Final Exam covers material from the entire course.**

HITT Points:

During the class periods, the HITT System (Remote Response System) will be used to monitor the understanding of the topics being discussed. The HITT System may be used at any time during the class period. In some instances, the responses will not be graded as correct or incorrect, so the point is awarded for participation. For the other cases, the exercise will be graded in either a “2-1” (2 points for the correct response and 1 point for an incorrect response) or “5-2” (5 points for the correct response and 2 points for an incorrect response) formats. A total of 60 points will be available with the HITT System. To accommodate instances when technical issues might arise with a student’s transponder, only 50 points of the 60 total available points will count to the final grade. In most instances, the HITT exercises will be open book and “chat with a neighbor”; however, electronic devices linked to the web and calculators will NOT be permitted. The specific rules covering each exercise will be explained when the problem is presented.

HITT Remote Responder Required:

You need to have your own HITT remote transponder. Before purchasing a new one or borrowing an old one from a friend, please review the hardware requirements at: <http://www.phys.ufl.edu/~hitt/>.

HITT Registration Required:

You must correctly register your unit before Wednesday, 18 January. The registration web-based site is at: <http://www.phys.ufl.edu/~hitt/>. **YOU MUST USE YOUR UF EMAIL ADDRESS!**

HITT Comments:

You are responsible for having an operational and appropriately registered device. Testing will occur during classes prior to Wednesday, 18 January. On Wednesday, 18 January, the recording of the points will begin.

Teaching Assistants/Grading Assistant (TA/GA):

If a TA/GA is made available for this course, then the appropriate office hours and related details will be announced on the Course Webpage.

Comments on Materials Allowed for Quizzes, Tests, and Examinations:

Calculators will NOT be permitted for this course. The allowed formula sheet for each student will be the same, and it will nominally consist of the inside-front jacket (two pages) and the outside-back jacket (one page of constants and coordinates), see <http://www.phys.ufl.edu/~meisel/FS-3323.pdf>. For tests and the final exam, this allowed sheet will be distributed.

Comments on Knowing Your Grades:

It is expected that graded material will be returned to each student at the start of the first class period after which it was generated. Students should NOT mark on the graded sheets. The material and rubric will be reviewed in lecture. After the review, if a student has any question about the grading of the work, it should be returned to the Instructor. In a timely manner, the student should meet with the professor to review the grading. If a student decides that the work is correctly graded, then the student may keep the graded work. At that point, the student yields any opportunity to debate how the work was graded. The student should keep the hardcopy until the end of the semester in case there is any dispute about the total number of points earned during the course. The E-Learning system is used to electronically post the grades, <https://lss.at.ufl.edu/>. If you have any questions about your points on any material or for the course, please contact the Instructor.