

Here a square bracket means that the end point is included in the range, and a round bracket (parenthesis) means the end point is not included in the range. Actual grade ranges may end up having lower cutoffs, depending on the overall level of performance.

100%-final option: The comprehensive final exam is your opportunity to demonstrate that you have broadly and coherently mastered the course material. This is, after all, the main goal of the course. Therefore, if (a) you have not missed any midterm exams, (b) your total midterm exam grade is at the passing level, (c) your homework grade is also at the passing level, and (d) your final exam score *exceeds* your overall score, then your final exam score will *replace* your overall score in determining your letter grade.

Regrade requests: Any requests for a regrade of an assignment or an exam must be made no later than one week after the item is returned. Keep in mind that for a regrade I will look at the entire assignment/exam, not just one problem, and may raise *or* lower your score. Arithmetic errors in adding up points will be handled separately.

Borderline grades: Like any other measurement, grades possess a degree of uncertainty. Therefore, factors such as participation, improvement, and effort *may* help borderline grades. (Lobbying, however, will not.) There is no extra credit in this course.

'Incomplete' grades: According to UGA policy, a grade of Incomplete “indicates that a student was doing satisfactory work but, for non-academic reasons beyond his/her control, was unable to meet the full requirements of the course. An Incomplete should not ordinarily be given unless the student has completed a substantial part of the course. The instructor of the course should indicate to the student the deadline for completing the work in the course. No more than three semesters (counting summer school as one semester) may be allowed to complete the work in the course, but the instructor may specify an earlier deadline. If an I is not satisfactorily removed after three semesters (counting summer school as one semester), the symbol I will be changed to the grade F (or U for a course graded S/U) by the Registrar.” I will adhere to this policy for this course.

Course withdrawal: Make sure you are familiar with the UGA policy on withdrawal from courses. You can find it online at the following URL:

http://bulletin.uga.edu/Bulletin_Files/acad/Courses.html

The withdrawal deadline for this semester is October 22. For withdrawals before the deadline, I will generally enter a grade of WP even for technically failing grades, *if* I judge that you have made a sincere effort in the class. It is possible to earn a grade of WF before the deadline; don't assume otherwise. Withdrawals after the deadline must be WF, unless the Office of the Vice President for Student Affairs permits a hardship withdrawal from all courses. See the above web page for further details.

Any student who is showing serious neglect for this course (*e.g.*, failing to turn in homework or turning it in late, rarely or never attending class, etc.) may be asked to withdraw. A student missing 4 consecutive classes without adequate prior explanation will be considered eligible for an instructor-initiated withdrawal from the course. All such cases will be brought to the attention of the student's academic advisor.

Exams

Number and rules: There will be three midterm exams and a *cumulative* final exam. They will all be closed-book and closed-notes. However, I may provide you with a sheet containing useful or difficult formulas. You may use a scientific calculator on exams *for arithmetic only*, not for algebra, calculus, graphing, or information storage; all programs and memory registers must be cleared. Unless told otherwise, you must show work on each exam problem in order to receive full credit.

Timing: Midterm exams will be two hours long and will be held in the evening (or some other suitable time) in order to give you extra time to complete them. The specific dates and times have not yet been determined. I will give further information on each exam before the exam date. Exam solutions will be posted to the course web site after each midterm has been graded.

Make-up exams: If you need to miss an exam for a *legitimate and documentable* reason, you must contact me before the exam if at all possible, or else as soon as possible after the exam. Make-up exams will be given *only* for legitimate, documentable reasons and *only* if you notify me in a timely fashion. If you are uncertain as to what constitutes a legitimate and documentable reason for missing an exam, please ask me.

Final exam schedule: Thursday, December 10, 12:00-3:00 PM in Room 327.

Homework

Reading Assignments:

- **Rationale:** The textbook for this course is very well written and easy to read. Your time spent in class will be much more meaningful and beneficial if you read the relevant sections of the textbook *in advance*.
- **Schedule:** A tentative schedule of reading assignments is included at the end of this document. Depending on the pacing of the class, the reading schedule may change from time to time. The *official* reading assignment for each class can be found on the course website, where the up-to-date schedule will be posted.
- **Expectations:** You are expected to come to *every* class having completed that day's reading assignment. I intend to start each class with the question, "Are there any questions about today's reading assignment?" If no one asks questions, I may call on individuals; so come prepared. This is part of what I mean by "participation" in the section above on "Borderline grades."

Problem Sets:

- **Logistics:** In general, weekly problem sets will be due at 4:00 PM every Friday. The pace of the class and changes to the schedule may necessitate different due dates, which will be announced in class and posted on the course website. Your write-ups should be either handed to me or placed in my mailbox in the departmental main of-

office (Room 201). *Do not* slide assignments under my office door. Detailed homework solutions will be posted to the course website after the homework is due.

- **Write-up format:** The following rules must be adhered to for all write-ups handed in for credit: (a) Use letter-size (8½"×11") paper, not legal-size paper. (b) Do not hand in papers with "fringe" from spiral notebooks. (c) Staple your pages *in order* in the upper left corner. A stapler is available in the main office. Do not use paper clips, bent-over corners, etc. (d) Write your name clearly in the upper right corner of the top page. (e) On the last page of your write-up, list all classmates you worked with. (f) Write legibly so that the grader can read your work easily.
- **Grading:** Problem sets will be graded by a graduate student assigned as the grader for this course (I will grade exams) and returned to you in a timely fashion. Disputes about the grading should be directed to me, and I will act as the final arbiter. Homework problems will be graded not only for correctness of the end result, but also on process. Be sure to express, clearly and legibly, the reasoning for your solutions.
- **Dropping lowest two:** All problem sets will be weighted equally; however, your lowest two scores will be dropped when calculating your homework average for semester grades. This policy compensates for the unavoidable circumstances that may prevent you from submitting homework on time (*e.g.*, illness, scheduled event, emergency, etc.) *Late problem sets will not be accepted or excused.*
- **Teamwork vs. plagiarism:** Teamwork can be a very good way of learning, so I encourage you to interact with your classmates on homework. That is in fact one of the purposes of the optional weekly clinics. However, do not mistake teamwork for plagiarism; it is unacceptable, for example, to divvy up the problems and then swap solutions. The work you hand in *must be your own*, not copied, reworded, or paraphrased from someone else's work. I will choose problems from a variety of sources, including my own imagination. It is likely that solutions for many of the assigned problems can be found on the internet or other sources. I know this, and now you do too. It is unacceptable for you to solve homework problems by "mining" for existing solutions; this constitutes a form of plagiarism. Remember, the only way you will learn the subject is by sweating through problems on your own and/or with your study team.
- **Final comment:** Working physics problems is *by far* the best way to learn physics, so it is important that you make every effort to do an honest and thorough job.

PHYS 6201/Honors Credit Project

Who: Graduate students in this course are enrolled in PHYS 6201. Undergraduates in the Honors Program wishing to receive honors credit for this course must transfer into PHYS 6201. (See your undergraduate major advisor.)

What: Students enrolled in PHYS 6201 will have an additional term project. Each student will study an article of their choice (but with my advice and consent) on some aspect of Electromagnetism, taken from the last 25 years of *The American Journal of Physics* (AJP). This excellent journal is available both electronically and in print through the

UGA Library. The goal in studying the article will be to understand it thoroughly and deeply and to see how it connects with the material of this course. Each student will then write a brief term paper on his/her chosen article. The paper should be written at a level accessible to students in PHYS 4201. Further details on the length, format, and content of the term paper will be provided separately in the coming weeks. I will evaluate your term paper based on content, appropriateness of level, and writing style.

When: The following deadlines are in effect:

- Proposing an AJP article for your term project: Friday, October 9
- Obtaining final approval on your choice of article: Friday, October 23
- Submitting your term paper: Friday, November 20

Effect on grade: Your preliminary semester letter grade will be determined as per the section “Grading Policy” above. If your term paper is judged to be outstanding, then your final grade will be one step higher than your preliminary grade (*e.g.*, B becomes B+, B+ becomes A–, A becomes A with a special gift from me). If your term paper is judged to be acceptable but not outstanding, then your final grade will be the same as your preliminary grade. If your term paper is judged to be poor, then your final grade will be one step lower than your preliminary grade (*e.g.*, A– becomes B+, B+ becomes B, etc.). Finally, if you fail to submit a term paper by the deadline, then your final grade will be two steps lower than your preliminary grade (*e.g.*, A– becomes B, B+ becomes B–, etc.)

Academic Honesty

The University of Georgia has a comprehensive policy on academic honesty known as *A Culture of Honesty*. This policy not only describes required and prohibited conduct, as pertains to academic honesty, but also provides a detailed procedure for resolving matters of alleged academic dishonesty, including a description of consequences for honesty violations. The complete policy can be found online at <http://www.uga.edu/honesty/>. All students are responsible for knowing, understanding, and abiding by this policy. If you have any questions about the appropriateness of your work in this course, you are obligated to ask me for clarification.

I take issues of academic honesty very seriously, and it is my responsibility to uphold the University’s policy. This means, among other things, that I will not hesitate to report my suspicions of dishonesty (*e.g.*, plagiarism, unauthorized assistance, etc.) to the Office of the Vice President for Instruction. This extends not only to exams but also to homework and (for PHYS 6201 students) term papers.

Tentative Schedule of Reading Assignments

[*Note:* Since the schedule may change somewhat due to pacing and other issues, the *official*, up-to-date schedule of reading assignments will be on the course website.]

Date	Reading Assignment
M 8/17	pp. ix-xv; § 1.1 (all)
W 8/19	§ 1.2 (all); Syllabus
F 8/21	§ 1.3.1-4
M 8/24	§ 1.3.5-6; § 1.4 (all)
W 8/26	Appendix A; § 1.5.1-2
F 8/28	§ 1.5.3; § 1.6 (all)
M 8/31	§ 2.1 (all); § 2.2.1-2
W 9/2	§ 2.2.3-4; § 2.3.1-3
F 9/4	§ 2.3.4-5; § 2.4.1-3
M 9/7	Labor Day – No class
W 9/9	§ 2.4.4; § 2.5.1-2
F 9/11	§ 2.5.3-4
M 9/14	Review for Exam 1
W 9/16	Exam 1 [†]
F 9/18	§ 3.1.1-5
M 9/21	§ 3.1.6; § 3.2 (all)
W 9/23	§ 3.3.1
F 9/25	§ 3.3.2
M 9/28	§ 3.4 (all)
W 9/30	No reading assignment
F 10/2	§ 4.1 (all); § 4.2.1
M 10/5	§ 4.2.2-3; § 4.3 (all)
W 10/7	§ 4.4.1-2
F 10/9	§ 4.4.3-5
M 10/12	Review for Exam 2
W 10/14	Exam 2 [†]

Date	Reading Assignment
F 10/16	§ 5.1 (all)
M 10/19	§ 5.2 (all)
W 10/21	§ 5.3.1-3
F 10/23	§ 5.3.4; § 5.4 (all)
M 10/26	§ 6.1 (all); § 6.2.1
W 10/28	§ 6.2.2-3
F 10/30	Fall Break – No class
M 11/2	§ 6.3 (all); § 6.4.1
W 11/4	§ 6.4.2
F 11/6	No reading assignment
M 11/9	Review for Exam 3
W 11/11	Exam 3 [†]
F 11/13	§ 7.1.1-2
M 11/16	§ 7.1.3; § 7.2.1
W 11/18	§ 7.2.2-3
F 11/20	§ 7.2.4
M 11/23	Thanksgiving Break
W 11/25	Thanksgiving Break
F 11/27	Thanksgiving Break
M 11/30	§ 7.3.1-2
W 12/2	§ 7.3.3-6
F 12/4	No reading assignment
M 12/7	No reading assignment
Tu 12/8	Review for Final Exam
Th 12/10	Final Exam, 12:00-3:00
Enjoy your Winter Break!	

[†] These are approximate exam dates. Exact dates and times for Exams 1-3 will be determined later, in order to arrange 2-hour time slots outside of our regular class period.