

FLORIDA INTERNATIONAL UNIVERSITY
Department of Physics

Schedule for Intermediate Electromagnetism I - Fall, 2018

Instructor Dr. Richard A. Bone

Below are the chapter-sections corresponding to each lecture from Electromagnetic Fields, 2nd edition by Wangsness. Some will be covered in greater depth than others. They represent your reading assignments and should be used to complement and upgrade your lecture notes.

You have already proven your ability to handle physics and you know how important a role problem solving plays. Homework problems will be assigned in class and collected for grading one week later. Individual assistance will be available during office hours which, generally, will be Mondays, Wednesdays and Fridays, 9:30 a.m. to 12:00 pm and Tuesdays and Thursdays, 1:30 to 5:00 p.m. You should find me in my office CP 213 or lab CP 276.

This is a 3 credit course. You should therefore schedule at least 6 hours per week for homework and self-study outside the classroom.

The final exam will contain 2 sections, one covering coursework since EXAM 2, the other on earlier material. The relative weighting of the 3 exams and homework will be as follows:

HOMEWORK - 14%, EXAMS 1 and 2 - 25% each, FINAL EXAM - 36%

Your overall score will be converted to a letter grade according to the following approximate scheme: >85% = A, A-; 75-84% = B+, B, B-; 58-74% = C+, C

Make-up exams and/or incompletes will only be given in extreme cases involving **serious** medical problems, death in family, etc, not because your car breaks down, or you are not prepared for the exam, or you have a work/vacation conflict. Written verification will be required. Any make-up exams will be scheduled for after the final, assuming you get passing grades on the other exams.

Student Learning Outcome The successful student will be one who has developed a strong, conceptual understanding of the material described in the reading assignments below. A strong conceptual understanding is gained through regular, on-time class attendance, questioning your instructor in class and during office hours, and paying particular attention to homework. Confidence that you have a deep understanding of physics is achieved through homework problem-solving. Always work from first principles. There are so few of these principles that there's not much to memorize. If you find yourself simply hunting for an equation that contains the variables in the problem, you will likely fail the exams. The successful student will be one who, confronted with an original problem, is able to apply the basic laws of physics in order to find a solution. Do not make use of unscrupulous websites that sell solutions and leave you unprepared for exams.

Cell phone policy Cell phones must be switched off during class. Texting or leaving class to make or receive calls is not permitted.

<u>Date</u>	<u>Chapter-section</u>	
Aug	20	1-1 to 8
	22	1-9 to 13
	27	1-14,15
	29	1-16,17
Sept	5	1-18 to 20
	10	2-1 to 5
	12	3-1 to 4; 4-1,2
	17	4-3; 5-1
	19	5-2,3
	24	EXAM 1
	26	5-4
Oct	1	6-1
	3	6-2,3
	8	7-1 to 3
	10	7-4; 8-1
	15	8-1
	17	8-2,3
	22	8-4
	24	EXAM 2
	29	9-1 to 5
	31	10-1 to 3
Nov	5	10-4 to 6
	7	10-7 to 9
	14	11-1,2
	19	11-2,3
	21	11-5
	26	11-5,6
	28	12-1 to 6
Dec	3-8	FINAL EXAM

(Oct 31 is DR/WI deadline)