PHYSICS 302 COURSE SYLLABUS

Course Information

Course Title: Advanced Electromagnetic Theory — Spring Semester, 2000

Meeting Time: TuTh 9:40-11:10 — Meeting Place: FJ 102

Instructor: Brent Hoffmeister
Office: 215 RT
Lab: 115A-E RT
Office Phone: X3913
Office Hours: 10:30-12:00 MW, 1:00-3:00 TuTh, other times by appt.

Course Objectives

To provide students with a solid formal foundation in advanced electromagnetic theory.

Text

Robert H. Good, *Classical Electromagnetism,* Saunders College Publishing, ISBN 0-03-022353-9

Course Requirements

1. Three tests as scheduled on course calendar	45%
2. Homework	30%
3. Final exam	25%

Class attendance is required.

Grading Procedures

- All graded work will be assigned a numerical score. You may estimate the corresponding letter grade by computing a percentage score and comparing it with the table below:

  Percentage Score = (Your Score / Total Possible) * 100

Percentage Score	Approximate Letter Grade
90-100	A
80-89	B
70-79	C
60-69	D
Below 60	F

- Late homework assignments will be penalized by 10% of the total possible score per day that they are late.

- Make-up exams may be arranged on the condition that the student notifies the instructor in advance of missing an exam. Make-up exams will typically prove more difficult than the original.

- The conditions of the Honor Code described in the Rhodes College Student Hand Book apply to all assignments in this course unless specified otherwise by the instructor.

Course Calendar

Date	Subject	Problem Set Due
Thu. Jan. 13	Ch. 11 Maxwell's Equations with Materials	
Tue. Jan. 18	(No meeting)	
Thu. Jan. 20	Ch. 12 Boundary Value Problems	Ch. 11
Tue. Jan. 25	Ch. 12 Boundary Value Problems	
Thu. Jan. 27	Ch. 12 Boundary Value Problems	
Tue. Feb. 1	Ch. 12 Boundary Value Problems	
Thu. Feb. 3	Ch. 13 Circuits	Ch. 12
Tue. Feb. 8	**Test 1**	
Thu. Feb. 10	Ch. 13 Circuits	
Tue. Feb. 15	Ch. 13 Circuits	
Thu. Feb. 17	Ch. 13 Circuits	
Tue. Feb. 22	Ch. 14 Radiation	Ch. 13
Thu. Feb. 24	Ch. 14 Radiation	
Tue. Mar. 29	Ch. 14 Radiation	
Thu. Mar. 2	Ch. 14 Radiation	
Tue. Mar. 7	(Spring Recess)	
Thu. Mar. 9	(Spring Recess)	
Tue. Mar. 14	Ch. 14 Radiation	
Thu. Mar. 16	Ch. 15 Radiating Systems	Ch. 14
Tue. Mar. 21	**Test 2**	
Thu. Mar. 23	Ch. 15 Radiating Systems	
Tue. Mar. 28	Ch. 15 Radiating Systems	
Thu. Mar. 30	Ch.16 Radiation in Media	Ch. 15
Tue. Apr. 4	Ch.16 Radiation in Media	
Thu. Apr. 6	Ch.16 Radiation in Media	
Tue. Apr. 11	Ch.16 Radiation in Media	
Thu. Apr. 13	Ch. 18 Relativity in Electromagnetism	Ch. 16
Tue. Apr. 18	**Test 3**	
Thu. Apr. 20	(Easter Recess)	
Tue. Apr. 25	Ch. 18 Relativity in Electromagnetism	
Thu. Apr. 27	Ch. 18 Relativity in Electromagnetism	