

PHYSICS 112 COURSE SYLLABUS

Course Information

Course Title: Physics II Spring Semester, 2000
Meeting Time: MWF 9:10-10:10 Meeting Place: FJA
Home page: www.physics.rhodes.edu/physicsI&II
Instructor: Dr. Brent Hoffmeister
Office: 215 RT
Lab: 115A-E RT
Office Phone: 843-3913
Office Hours: 10:30-12:00 MWF, 1:00-3:00 TuTh, other times by appointment

Course Objectives

To provide students with a solid foundation in the fundamentals of classical physics, and an intuition for physical phenomena.

Text

Halliday, Resnick, and Walker, *Fundamentals of Physics*, Fifth Edition, John Wiley & Sons, Inc.

Course Requirements

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| 1. Four tests as scheduled on course calendar | 40% |
| 2. Homework as scheduled on course calendar (due at beginning of class) | 30% |
| 3. Final exam | 25% |
| 4. Class attendance and participation | 5% |

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:

$$\text{Percentage Score} = (\text{Your Score} / \text{Total Possible}) * 100$$

Percentage Score	Letter Grade	Percentage Score	Letter Grade	Percentage Score	Letter Grade
95-100	A	80-82	B-	67-69	D+
90-94	A-	77-79	C+	63-66	D
87-89	B+	73-76	C	60-63	D-
83-86	B	70-72	C-	Below 60	F

- Late homework assignments will be penalized by 10% of the total possible score per day (including weekends and holidays) 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 may 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 otherwise specified by the instructor.

Course Calendar

Date	Subject	Assignment Due
Wed. Jan. 12	Ch. 19: Temperature, Heat and the First Law	
Fri. Jan. 14	Ch. 19: Temperature, Heat and the First Law	
Mon. Jan. 17	(M.L.K. Observance Day)	
Wed. Jan. 19	(No meeting)	
Fri. Jan. 21	Ch. 20: Kinetic Theory of Gases	Ch. 19
Mon. Jan. 24	Ch. 20: Kinetic Theory of Gases	
Wed. Jan. 26	Review	Ch. 20
Fri. Jan. 28	Test 1	
Mon. Jan. 31	Ch. 22: Electric Charge	
Wed. Feb. 2	Ch. 23: Electric Fields	Ch. 22
Fri. Feb. 4	Ch. 23: Electric Fields	
Mon. Feb. 7	Ch. 24: Gauss' Law	Ch. 23
Wed. Feb. 9	Ch. 24: Gauss' Law	
Fri. Feb. 11	Ch. 25: Electric Potential	Ch. 24
Mon. Feb. 14	Ch. 25: Electric Potential	
Wed. Feb. 16	Ch. 26: Capacitors	Ch. 25
Fri. Feb. 18	Ch. 27: Current and Resistance	Ch. 26
Mon. Feb. 21	Review	Ch. 27
Wed. Feb. 23	Test 2	
Fri. Feb. 25	Ch. 28: Circuits	
Mon. Feb. 28	Ch. 28: Circuits	
Wed. Mar. 1	Ch. 29: Magnetic Fields	Ch. 28
Fri. Mar. 3	Ch. 29: Magnetic Fields	
Mon. Mar. 6	(Spring Recess)	
Wed. Mar. 8	(Spring Recess)	
Fri. Mar. 10	(Spring Recess)	
Mon. Mar. 13	Ch. 30: Magnetic Fields Due to Currents	Ch. 29
Wed. Mar. 15	Ch. 30: Magnetic Fields Due to Currents	
Fri. Mar. 17	Ch. 31: Induction and Inductance	Ch. 30
Mon. Mar. 20	Ch. 31: Induction and Inductance	
Wed. Mar. 22	Ch. 32: Magnetism of Matter	Ch. 31
Fri. Mar. 24	Review	Ch. 32
Mon. Mar. 27	Test 3	
Wed. Mar. 29	Ch. 34: Electromagnetic Waves	
Fri. Mar. 31	Ch. 34: Electromagnetic Waves	
Mon. Apr. 3	Ch. 35: Images	Ch. 34
Wed. Apr. 5	Ch. 35: Images	
Fri. Apr. 7	Ch. 36: Interference	Ch. 35
Mon. Apr. 10	Ch. 36: Interference	
Wed. Apr. 12	Ch. 37: Diffraction	Ch. 36
Fri. Apr. 14	Ch. 37: Diffraction	
Mon. Apr. 17	Review	Ch. 37

Wed. Apr. 19	Test 4	
Fri. Apr. 21	(Easter Recess)	
Mon. Apr. 24	Ch. 38: Relativity	
Wed. Apr. 26	Ch. 38: Relativity	
Fri. Apr. 28	Review	Ch. 38