

PHYSICS 111 COURSE SYLLABUS

Course Information

Course Title: Introductory Physics

Fall Semester, 2000

Meeting Time: MWF 9:10-10:10

Meeting Place: FJA

Home page: www.physics.rhodes.edu/physics111

Instructor: Dr. Brent Hoffmeister

Office: 215 RT

Lab: 115A-E RT

Office Phone: X3913

Office Hours: 10:30-12:00 MW, 1:00-3:00 ThF, other times by appointment

Course Objectives

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

Text

Eugene Hecht, *Physics: Calculus*, 2nd Edition, Brooks/Cole, ISBN 0-534-36270-2

Course Requirements

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| 1. Four tests as scheduled on course calendar | 40% |
| 2. Homework as scheduled on course calendar | 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 receives approval from the instructor *before* missing an exam.

- 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	Reading	HW Due
Wed. Aug. 23	Ch. 1: Introduction		
Fri. Aug. 25	Ch. 2: Speed and Velocity (Class ends at 9:50)	2.1-2.5, 2.7	
Mon. Aug. 28	Ch. 2: Vector Addition	2.6, 2.8	
Wed. Aug. 30	Ch. 3: Acceleration	3.1-3.5	Ch. 2
Fri. Sep. 1	Ch. 3: Free Fall	3.7-3.8	
Mon. Sep. 4	(Labor Day Recess)		
Wed. Sep. 6	Ch. 3: Projectile Motion	3.9	
Fri. Sep. 8	Review		Ch. 3
Mon. Sep. 11	Test 1 (Ch. 1-3)		
Wed. Sep. 13	Ch. 4: Newton's Three Laws	4.1-4.4	
Fri. Sep. 15	Ch. 4: Some Particular Forces	4.5-4.9	
Mon. Sep. 18	Ch. 4: Applications of Newton's 2 nd Law		
Wed. Sep. 20	Ch. 5: Centripetal Force	5.1-5.2	Ch. 4
Fri. Sep. 22	Ch. 5: Law of Gravitation	5.3-5.4	
Mon. Sep. 25	(No Meeting)		
Wed. Sep. 27	Ch. 5: Orbital Motion	5.5-5.7	
Fri. Sep. 29	Ch. 6: Work	6.1	Ch. 5
Mon. Oct. 2	Ch. 6: Kinetic Energy	6.2	
Wed. Oct. 4	Ch. 6: Potential Energy	6.3	Ch. 6a
Fri. Oct. 6	Ch. 6: Conservation of Mechanical Energy	6.4-6.6	
Mon. Oct. 9	Review		Ch. 6b
Wed. Oct. 11	Test 2 (Ch. 4-6)		
Fri. Oct. 13	Ch. 7: Impulse and Momentum	7.1-7.3	
Mon. Oct. 16	(Fall Recess)		
Wed. Oct. 18	Ch. 7: Collisions in 1-D	7.4-7.5	
Fri. Oct. 20	Ch. 7: Collisions in 2-D		
Mon. Oct. 23	Ch. 8: Rotational Kinematics	8.1-8.4	Ch. 7
Wed. Oct. 25	Ch. 8: Torque	8.5-8.6	
Fri. Oct. 27	Ch. 8: Rotational Inertia	8.8	Ch. 8a
Mon. Oct. 30	Ch. 8: Rotational Kinetic Energy	8.9	
Wed. Nov. 1	Ch. 8: Conservation of Angular Momentum	8.10-8.11	
Fri. Nov. 3	Review		Ch. 8b
Mon. Nov. 6	Test 3 (Ch. 7-8)		
Wed. Nov. 8	Ch. 9: Fluid Statics	9.2, 9.4-9.6	
Fri. Nov. 10	Ch. 9: Fluid Dynamics	9.7-9.9	
Mon. Nov. 13	Ch. 10: Elasticity	10.1-10.4	Ch. 9
Wed. Nov. 15	Ch. 10: Simple Harmonic Motion	10.5-10.7	
Fri. Nov. 17	Ch. 10: Resonance	10.8	
Mon. Nov. 20	Review		Ch. 10
Wed. Nov. 22	(Thanksgiving Recess)		
Fri. Nov. 24	(Thanksgiving Recess)		
Mon. Nov. 27	Test 4 (Ch. 9-10)		

Wed. Nov. 29	Ch. 11: Mechanical Waves	11.1-11.3	
Fri. Dec. 1	Ch. 11: Sound Waves	11.4-11.8	
Mon. Dec. 4	Ch. 11 Wave Interference	11.9-11.10	
Wed. Dec. 6	Review		Ch. 11