

PHYS 100
Introductory Physics
Spring 2010

Instructor:	Dr. Thomas Herring	Phone:	445-4277
Office:	CED 310	Email:	herrin32@wnc.edu
Office Hours:	M 1:30 - 3:30 pm T 5:00 - 6:00 pm W 1:30 - 3:30 pm Th 5:00 - 6:00 pm		
Text:	Conceptual Physics , Hewitt, 11 th Ed. (Addison Wesley 2009)		
Prerequisites:	Math 120, Math 126 or higher		
Meeting Times:	M, W 2:30– 3:45 pm		
Grading:	Tests (3)	40%	
	Final Exam	20%	
	Homework	20%	
	Quizzes	20%	

95% – 100%	A	73% - 75%	C
90% - 94%	A-	70% - 72%	C-
86% - 89%	B+	66% - 69%	D+
83% - 85%	B	63% - 65%	D
80% - 82%	B-	60% - 62%	D-
76% - 79%	C+	Below 60%	F

Note that there is no "W" grade on the scale. A "W" will only be given when requested by a student due to extreme circumstances and at the discretion of the instructor.

Tests: There will be 2 tests; both of them closed book. Students are allowed one 8.5" x 11" sheet of paper for notes and formulas. Construction of this sheet is an excellent way to study for the tests.

Final Exam: The final exam will be comprehensive. The percentage score on the final can replace the lower of the 2 regular test scores if it is greater than the lowest test score. Students will be allowed two 8.5" x 11" sheets of paper for notes and formulas.

Homework: Homework assignments will be assigned problems from the textbook. Assignments are due once per week on Thursday at 6:00 pm. Homework should be neatly written or typed and can be handed in either to me (in class or the box outside my office) or electronically via email. Please write your name, your course number (PHYS 100) and the assignment number (i.e HW #01) at the top of your assignment. The lowest homework score will be dropped. Each problem will be graded as follows.

No attempt / Completely wrong – 0 pts.

Reasonable attempt – 1 pt.

Correct solution – 2pts.

Quizzes: Quizzes will be given in class approximately once per week (we won't have quizzes on test weeks). They will consist of a mixture of multiple choice and short answer questions and should take 10 minutes or so to complete. The final quiz score for the semester will be recorded based on class participation. This score is a determined based upon a student's level of participation in class discussions and interaction with other students.

Makeup Policy: If you make me aware of any conflicts **in advance** it should be easy to arrange makeup times for tests. There is no makeup available for homework or quizzes since solutions will be made available after the due date.

Extra Credit: There is no extra credit available.

Dishonesty in Class: I don't anticipate any problems but here's the policy anyway. Any dishonesty/cheating will result in an F in the course.

Class Conduct: Please be respectful of the learning environment, your fellow students, the instructor, and any visitors. This includes entering and leaving the room quietly (especially if arriving late or leaving early), silencing cell phones during class (just leave the room if you **need** to take the call), and engaging in side conversations not relevant to the course material.

Disability Statement: WNC supports providing equal access for students with disabilities. Susan Trist (DSS Coordinator) is available to discuss appropriate academic accommodations that students may require. Please meet with me and contact Susan (445-3278) if you might require any accommodation.

I: Catalog Course Description

Introduces students to a broad range of concepts in physics from basic classical mechanics to modern physics. Students will conduct at least four experiments with many demonstrations performed throughout the course.

II: Course Objectives

Upon successful completion of PHYS 100, the student will perform with a minimum accuracy of 80 percent, the following objective:

- List the components of the scientific method in detail and apply this skill to experiments.
- Explain the conceptual basis of a wide range of physical phenomenon in mechanics, properties of matter, heat, electricity and magnetism, light, and modern physics.
- Perform at least 4 basic hands-on experiments in the laboratory.

III: Course Linkage

Linkage of course to educational program mission and at least one educational program outcome.

General Education Mission: PHYS 100 is a general education class that promotes the development of knowledge, skills, and attitudes that will benefit students in their personal and professional endeavors.

General Education Student Learning Outcome: Students who successfully complete PHYS 100 satisfy the general education learning outcome of having problem solving, creative, and critical thinking skills. In addition, students will understand the methods of science and the role of science and technology in the modern world.

Program Mission for AA/AS degree: PHYS 100 satisfies the A.A./A.S. degree mission by providing academic knowledge and skills for successful transfer to meet higher educational goals.

Program Student Learning Outcomes for AA/AS degree: Students who successfully complete PHYS 100 will know the subject matter appropriate to the emphasis of the degree.