

UNIVERSITY OF ARKANSAS AT MONTICELLO
School of Mathematical and Natural Sciences

Course: Elements of Physics –PHYS 1003 – 3 Credit Hours

Time and Place:

Instructor Name:

Email Address:

Phone:

Office Location:

Office Hours:

Prerequisites: None.

Required Materials

- *The Physics of Everyday Phenomena* by Griffith and Brosing. 7th ed. (McGrawHill) 2009.
ISBN-13: 978-0-07-351220-4
- Scientific Calculator

Useful Websites

<http://phet.colorado.edu/en/simulations/category/physics>

<http://www.physicsclassroom.com>

<http://education-portal.com>

<http://hyperphysics.phy-astr.gsu.edu/hbase/hfi/ame.html>

<http://www.kltanacademy.org/science/physics>

Course Description

General Education course for the non-science major. A survey of the basic concepts of physics including mechanics, light, energy, electromagnetism, and waves.

Student Learning Outcomes

By the end of this course, you should be familiar with and solve basic quantitative and conceptual problems involving the following topics: -Motion, falling and projectile motion, Newton's Laws of Motion, Circular Motion, Energy and Oscillation, Momentum, Rotational Motion of Solid Objects, The Behavior of Fluids -Electrostatics, Electric Current, Magnets and Electromagnetism.-Mechanical Waves, Electromagnetic Waves, Light

Attendance Policy

Most students find that regular attendance and consistent effort are required for success in this course. I want you to come to class! If you miss a quiz, in-class assignment, or test, you may not make it up. With or without an excuse, a missed test will be replaced by your final exam and the final exam is mandatory. If you miss more than one test, the later one/one's must have been a preapproved absence or you must present documentation of a legitimate reason for your absence i.e. Dr's excuse. The documentation must be presented the first day of attendance after the absence. Otherwise you will be given a zero for the test score. If you are a member of an official UAM sponsored group (including the various athletic teams) and you need to miss a test, it is your responsibility to email me at least a week before the test you will miss. Other professional reasons for missing an exam, e.g. MCAT, interview, must be preapproved. By preapproved, I mean that you have informed me of your absence before the test has been given and we have made alternate testing arrangements. Test dates will be announced at least a week in advance by email only.

Grading:

Quizzes and homework assignments will count for 30% and tests will make up the remaining 70%. Each test will be worth 100 points. There are 7 tests total. Only the first missed test may be replaced by the final exam.

The final exam will be comprehensive and will be graded by adding the difference of the highest percentage score and 100% to all other exam scores below the highest score. The exam may not contain questions from all of the content covered in the course.

I will follow the grading scale below.

A: 90% B: 80 - 90% C: 70 - 79 % D: 60 - 69% F: <59%

Responsibilities

It is important to be on time for class. Handouts are distributed and announcements are made at the beginning of class. You are responsible for all information and instructions discussed in class whether or not you were present. Show up on time for tests. The later you arrive to take a test, the less time you will have. You are expected to read the material to be covered in class each day prior to class. It is also your responsibility to review the lecture notes and work on the problems that are assigned for every chapter. Physics is best learned by solving problems. Homework is typically due by the end of a test day for a given set of chapters. Late homework will not be accepted. If you insist on handing it in, it will not be graded nor returned. Plan your time adequately, and start working the homework in advance. You must try to recognize when you need help and be willing to ask for it, both in and out of class. Do not hesitate to drop by my office if you have any questions.

A professional attitude is to be maintained during your participation in class. Students with inappropriate behavior will be asked to leave the classroom. Cell phones and pagers must be silent during class.

Tentative Test Schedule

Test 1: Chapters
2 – 3
Test 2: Chapters
4 – 5
Test 3: Chapters
6 – 7
Test 4: Chapters
9 & 12
Test 5: Chapters
13 – 14
Test 6: Chapters
15 – 16

Final Exam: Comprehensive

Wed, January 24
Mon, February 10
Wed, February 26

Fri, March 14
Mon, April 7
Fri, April 25
Mon, May 5 8:00-10:00 a.m.

Dates of

Concern: January 8
(Wednesday) January
10 (Friday) January 20
(Monday) March 19
(Wednesday)
March 24- 28 (Monday-
Friday) April 7 (Monday)
April 18 (Friday)
April 29
(Tuesday) May 1
(Thursday)

First day of classes
Last day to register or add classes
Martin Luther King Holiday
Last day to drop a regular fall class. Grade will be W.
Classes closed-Spring Break
Preregistration for Summer and Fall 14 begins
Preregistration for Summer and Fall 14 ends
Last day of classes
Final Exam

Students with Disabilities

It is the policy of the University of Arkansas at Monticello to accommodate individuals with disabilities pursuant to federal law and the University's commitment to equal educational opportunities. It is the responsibility of the student to inform the instructor of any necessary accommodations at the beginning of the course. Any student requiring accommodations should contact the Office of Special Student Services located in Harris Hall Room 121; phone 870-460-1026; TDD 870-460-1626; Fax 870-460-1926; email: whitingm@uamont.edu

Student Conduct Statement

Students at the University of Arkansas at Monticello are expected to conduct themselves appropriately, keeping in mind that they are subject to the laws of the community and standards of society. The student must not conduct him/herself in a manner that disrupts the academic community or breaches the freedom of other students to progress academically.

Academic dishonesty:

1. Cheating: Students shall not give, receive, offer, or solicit information on examinations, quizzes, etc. This includes but is not limited to the following classes of dishonesty:
 - a. Copying from another student's paper;
 - b. Use during the examination of prepared materials, notes, or texts other than those specifically permitted by the instructor;
 - c. Collaboration with another student during the examination;
 - d. Buying, selling, stealing, soliciting, or transmitting an examination or any material purported to be the unreleased contents of coming examinations or the use of any such material;
 - e. Substituting for another person during an examination or allowing such substitutions for oneself.
2. Collusion: Collusion is defined as obtaining from another party, without specific approval in advance by the instructor, assistance in the production of work offered for credit to the extent that the work reflects the ideas of the party consulted rather than those of the person whose name is on the work submitted.
3. Duplicity: Duplicity is defined as offering for credit identical or substantially unchanged work in two or more courses, without specific advanced approval of the instructors involved.
4. Plagiarism: Plagiarism is defined as adopting and reproducing as one's own, to appropriate to one's use, and to incorporate in one's own work without acknowledgement the ideas or passages from the writings or works of others.

For any instance of academic dishonesty that is discovered by the instructor, whether the dishonesty is found to be cheating, collusion, duplicity, or plagiarism, the result for the student(s) involved will be immediate dismissal from the course and a grade off will be recorded.