

PHY 1003, Introduction to Physics
Spring 2009
Howell Hall 203
MWF 9:00 - 9:50 a.m.
Instructor: Dr. Baha Jassemnejad

COURSE DESCRIPTION

PHY 1003, Introduction to Physics, is a standard introductory course taught for students who desire a one-semester course in Conceptual Physics. The course is designed as a survey course in the fundamental of mechanics, thermophysics, electricity, magnetism, sound, and optics.

COURSE OBJECTIVE

The main objective of this course is: to instill in students an appreciation for the concepts of physics as it not only underlies the development of technology but also describes the natural phenomena they experience and observe daily.

PREREQUISITES

2 years of high school algebra

TEXT

Conceptual Physics Fundamentals, Hewitt, Pearson Addison Wesley publishing Company, 2008.

HOMEWORK

A homework set will be assigned roughly once each week and/or as needed.

TESTS

Up to four tests and as needed pop quizzes will be administered during the course of the semester. **Make-up tests and quizzes will not be administered.**

FINAL EXAM

The final exam will be administered on Wednesday May 6 from 9:00 a.m. - 10:50 a.m.

FINAL GRADE

The final grade will be determined using the following weights for each component of your performance.

Test#1 - Test#4	60%
Quizzes	20%
Final exam	20%

If P is the percentage of total points that you have earned during the semester, your letter grade will be assigned according to the usual scheme:

$P \geq 90\%$	A
$80\% \leq P < 90\%$	B
$70\% \leq P < 80\%$	C
$60\% \leq P < 70\%$	D
$P < 60\%$	F

Attendance, use of electronics and conduct Policy:

To avoid distraction that ultimately impedes student's learning, students are expected to observe the following during class:

- Be punctual (i.e. late arrivals after 9:00 will not be permitted into class).
- Do not use cell phone in any forms including text messaging (i.e. turn off cell phone prior to entering into class).
- DO not use lap tops and other electronics.
- Do not sleep.
- Do not study and/or do homework for other courses.

INSTRUCTOR'S CONTACT INFORMATION

Office Howell H221B

Office Hours: MWF 10:00 - 10:50 a.m.

Telephone 974-5461

Fax 974-3812

Email bjassemnejad@uco.edu

ADA STATEMENT

"The University of Central Oklahoma complies with Section 504 of the Rehabilitation Act of 1973 and the American with Disabilities Act of 1990. Students with disabilities who need special accommodations must make their requests by contacting the assistant director of Disability Support Services, Kimberly Fields at 974-2549. The office is located in the Nigh University Center, Room 309. Students should also notify the instructor of special accommodation needs by the end of the first week of class."

Student Information Sheet:

<http://www.busn.ucok.edu/academicaffairs/FORMS/StudentINFOSheetSyllabusSPRING04.pdf>

Tentative Topics

Mon. Jan 12	Introduction and Ch.1 About Science
Wed. Jan 14	Ch.2 Atoms
Fri. Jan 16	Ch.3 Equilibrium and Linear Motion
Mon. Jan 19	No Class
Wed. Jan 21	Ch.3 Equilibrium and Linear Motion
Fri. Jan 23	Ch.4 Newton's Laws of Motion (Ch3)
Mon. Jan 26	Ch.4 Newton's Laws of Motion
Wed. Jan 28	Ch.4 Newton's Laws of Motion
Fri. Jan 30	Ch.4 Newton's Laws of Motion
Mon. Feb 2	Ch.4 Newton's Laws of Motion
Wed. Feb 4	Review
Fri. Feb 6	Test #1
Mon. Feb 9	Ch.5 Momentum and Energy
Wed. Feb 11	Ch.5 Momentum and Energy
Fri. Feb 13	Ch.5 Momentum and Energy
Mon. Feb 16	Ch.5 Momentum and Energy
Wed. Feb 18	Ch.6 Gravity, Projectiles, and Satellites
Fri. Feb 20	Ch.6 Gravity, Projectiles, and Satellites
Mon. Feb 23	Ch.6 Gravity, Projectiles, and Satellites
Wed. Feb 25	Ch.7 Fluid Mechanics
Fri. Feb 27	Ch.7 Fluid Mechanics
Mon. Mar 2	Ch.7 Fluid Mechanics
Wed. Mar 4	Review
Fri. Mar 6	Test #2
Mon. Mar 9	Ch.8 Temperature, Heat, and Thermodynamics
Wed. Mar 11	Ch.8 Temperature, Heat, and Thermodynamics
Fri. Mar 13	Ch. 8/Ch.9 Heat Transfer and Change of Phase
Mon. Mar 16	No Class
Wed. Mar 18	No Class
Fri. Mar 20	No Class
Mon. Mar 23	Ch.9 Heat Transfer and Change of Phase
Wed. Mar 25	Ch.9 Heat Transfer and Change of Phase
Fri. Mar 27	Ch.9 Heat Transfer and Change of Phase
Mon. Mar 30	Ch.9 Heat Transfer and Change of Phase /Review
Wed. April 1	Test#3
Fri. April 3	Ch.10 Static and Current Electricity

Mon. April 6	Ch.10 Static and Current Electricity
Wed. April 8	Ch.10 Static and Current Electricity
Fri. April 10	Ch.10/Ch.11 Magnetism and Electromagnetic Induction
Mon. April 13	Ch.11 Magnetism and Electromagnetic Induction
Wed. April 15	Ch.11 Magnetism and Electromagnetic Induction
Fri. April 17	Ch.11 Magnetism and Electromagnetic Induction/Review
Mon. April 20	Test#4
Wed. April 22	Special topics
Fri. April 24	Special topics
Mon. April 27	Special topics
Wed. April 29	Special topics
Fri. May 1	Special topics