
Course Information

General

Lectures : Mondays, 4:00–4:50 pm, 216 NSC
Websites : Wiley: <http://edugen.wiley.com/edugen/class/cls13736/>
UBlearns: <http://ublearns.buffalo.edu/>
Instructor : Richard J. Gonsalves
Office : 323 Fronczak Hall
Office Hours : Tu-Th 11:00–12:00, or by appointment
Phone : (716) 645-2017 ext. 191
Email : phygons@buffalo.edu

Syllabus

Preparation for PHY 107 - PHY 108 or PHY 101 - PHY 102. Covers mostly Newtonian mechanics, emphasizing problem solving and math skills useful for physics. Reviews algebra, geometry, and trigonometry as applied to physics.

Textbook

The required textbook package for this course is “Physics” by Cutnell and Johnson, Sixth (Custom) Edition, Chapters 1-5, with eGrade Plus (Wiley, 2005). Make sure your package includes the textbook and the student access card for eGrade Plus. Please visit Wiley website and register for the online homework assignments using the registration code on your student access card.

Requirements

There will be one eGrade homework assignment each week to be completed online by the specified deadline. Each assignment will consist of approximately 6 problems. You will receive 50% credit for completing allowed tries, and the remaining 50% will be determined by your eGrade score.

There will be brief in-class tests approximately every other lecture. Each test will last approximately 10-15 minutes. Tests will be closed-book and based on completed homework assignment topics. There will be no final exam for this course.

Credit will be given for class participation. On test days you will receive participation credit for handing in your test. On non-test days you will receive credit for handing in a minute paper, which requires responses on a sheet of paper to be completed in less than 2-3 minutes.

Grades

Numerical grades will be assigned as follows:

Requirement Category	Percentage of Grade
Online Homework	60%
In-class Tests	30%
Class Participation	10%

In each requirement category, your lowest score will be dropped. Your final letter grade will then be assigned according to the following numerical cutoffs:

A	A-	B+	B	B-	C+	C	C-	D+	D	F
85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	0%

You will not be competing with other students: it is possible for everyone to get an A.

Study Assignments

Following is an approximate schedule of topics to help you prepare for each week's lecture and homework assignment. Please read the material before you come to class.

Week of	Textbook Sections	Topics
August 29	1.1-1.4	Units, Trigonometry
Labor Day (no class)	1.5-1.6	Scalars, vector addition/subtraction
September 12	1.7-1.8	Vector components
September 29	2.1-2.3	Displacement, velocity, acceleration
September 26	2.4-2.5	Constant acceleration, applications
October 3	3.1-3.2	Kinematics in two dimensions
October 10	3.3	Projectile motion
October 17	4.1-4.3	Force, mass, Newton's laws
October 24	4.4-4.5	Force vectors, Newton's third law
October 31	4.6-4.10	Types of forces
November 7	4.11	Equilibrium applications
November 14	4.12	Nonequilibrium applications
November 21	5.1-5.3	Uniform circular motion
November 28	5.3-5.4	Banked curves, satellite motion
December 5	5.6-5.7	More applications of circular motion

Academic Integrity

You are encouraged to form study groups and/or discuss concepts and problems with your fellow students. However, all submissions on tests and homework must be your own work. Please review <http://undergrad-catalog.buffalo.edu/undergraduateeducation/studentrights/integrity.shtml> and <http://www.ub-judiciary.buffalo.edu/art3a.shtml>.

Students with Disabilities

If you have a disability, (physical or psychological) and require reasonable accommodations to enable you to participate in this course, such as note takers, readers, or extended time on exams and assignments, please contact the Office of Disability Services, 25 Capen Hall, 645-2608, and see me during the first two weeks of class. ODS will provide you with information and review appropriate arrangements for reasonable accommodations.