

Welcome to General Physics I

Physics 201, section 501, Fall 2011

Tentative course schedule, syllabus, and list of assignments:

Meeting times:	Mon., Wed., Fri. 9:05--9:55am, PSC Bldg. Rm. 201 Wed. 3:35--4:25pm, PSC Bldg. Rm. 201
Professor:	M. N. Kunchur, Office: PSC 303
	Phone: 803 777 1907, Email: kunchur@sc.edu
	Homepage: http://www.physics.sc.edu/kunchur
Office hours:	You may drop by at anytime on Mon., Wed., or Fri. or call/email to make an appointment.
Course website:	http://wind.physics.sc.edu/p201 Backup server: http://frost.physics.sc.edu/p201/

Text: *Contemporary College Physics* by Edwin R. Jones and Richard L. Childers, Third Edition.

(Other editions of the book are okay. Clickers are not required.)

Learning outcomes:

Students will demonstrate knowledge of the definitions of scalar and vector physical quantities and know examples of each.

Students will demonstrate the ability to apply vectors and vector operations to solve problems in physics.

Students will demonstrate a knowledge of Newton's laws and be able to apply them to solve problems involving rigid bodies.

Students will be able to use the relationships between work, kinetic, and potential energies to solve problems.

Students will be able to apply the conservation of angular momentum to solve problems.

Students will be able state and apply the Law of Universal Gravitation to solve problems.

The approximate goal will be to cover parts of the material from the first 10 chapters of the text.

The text will not be followed exactly and some sections may be dropped or additional material outside the book covered. Also the style and treatment may be different from the book, so attendance at all classes is essential. If you do miss a class, please get notes from someone immediately—it may be difficult to learn the missed material just from reading the book. The quizzes, tests and final exam will be based on what is actually covered in class and the assigned homework.

Homework (HW) will consist of assignments from the back of each chapter plus other questions/problems given in class. You will usually have an in-class quiz (unless you have a test) upon completion of a chapter/chapter-group. This will check how well you have understood the HW as well as the general concepts and theory. This course will emphasize gaining a conceptual understanding of physics and a qualitative feel for the topics, besides being able to solve numerical problems. Accordingly the tests and quizzes will contain not only problems but also qualitative (essay type) questions and derivations. However, the questions will not be open ended (like "What's your philosophy of life?").

The overall grade will be based on quizzes (20%), 3 tests (50%), and a cumulative final exam (30%). Plus there

is a 2% bonus for participation in classroom discussions. You are advised to save all course material (especially the graded tests that you get back) until the course has ended and a final letter grade has been assigned. Quizzes and tests are closed-book. Usually no quizzes or tests are dropped!

Please note that there is **no CAPA**. The Wed. 3:35pm class is like any other class and requires mandatory attendance. Quizzes and tests are often given during this period.

You will need to bring a scientific calculator for the quizzes, tests, and final. Graphing calculators, cell-phones, PDA's, and other instruments with memories are not allowed.

Notes (usually brief outlines) and other materials and announcements will be posted on the course web site from time to time, so do keep an eye on that site.

The following grades boundaries will serve as a guide:

$0 \leq F < 50 \leq D < 56 \leq D+ < 63 \leq C < 70 \leq C+ < 76 \leq B < 83 \leq B+ < 90 \leq A \leq 100$

I may adjust these if the overall curve is much lower. Makeup exams will be given for exceptional situations such as valid medical excuses.

Please don't hesitate to ask questions at any time - either in class or in my office.

Dates for the tests and final

Test 1	Wed. Sept 14, 2011	9:05am
Test 2	Fri. Oct. 7, 2011	9:05am
Test 3	Fri. Nov. 4, 2011	9:05am
Final exam	Mon. Dec. 5, 2011	9am

~ GOOD LUCK ~