

General Physics -II
PHYS 202
University of South Carolina
Main Campus
Session: 01/09-04/23, 2012

Professor: T. Datta

Office: PSC 501/502 (777-7669) 12:300-1:30 pm MW or by appointment

Internet: LonCapa

Contact: datta@sc.edu (NB: grades will be discussed only in person but not by email/phone)

Class: PSC 002, 10:10 am-11:00 am, MWF

Preq: C or better in 201

Recitations: PSC 208 (time per section)

Text Book: Jones & Childers

Topics: Ch. 16-30 will be covered

Course Description:

- This is an algebra based, introductory mechanics and thermal physics course.
- University policies regarding attendance will be applicable.
- The student will need the math competence at the level of the text book.
- The student will be expected to solve problems on their own from the text book.
- Students knowledge and skills have to be demonstrated in quizzes and tests as well as in class presentations
- Participation in class discussions and in questions & answers sessions will be required.
- Effort by student is expected but not graded.

Learning outcome & goals: After successfully completing Phys 201 the student will learn how to critically analyze the basic principles, solve problems and compute numerical answers.

Home work: Algebra based qualitative & quantitative problems via LONCAPA .

In class work: Question & answers, working out examples and several pop quizzes.

Tests & Exams: 3, 1-hr tests, quizzes + Final (ID s may be checked @ tests).

Grading: To pass this course the student will have to show satisfactory performance in all the components of the course, viz in class, home work, and testing. Grade will be based on tests (4x10= 40%), Electronic HW 40 % + Quiz & in-class work 20%

Scale: Standard 10 pt, viz., 100-90% = A, 89-80% = B, etc.

- Through out the session test dates will be chosen in class after open discussions.
- Attendance may be taken at random for record keeping. More than Three unexcused absences may cause loss of grade.
- Makeup tests only with written medical or family excuses.
- Requests for incomplete grade “I” has to be made in writing and conditions negotiated should be written down and agree upon. Verbal will not be enough.
- Discussions of grades by person only, no email/electronic.
- Request for recommendation letters has to be supported with Students resume.

Tentative Spring 2012 Calendar for Phys 202

Notice: For all USC academic dates consult the registrar’s website
<http://registrar.sc.edu/html/calendar5yr/5YrCalendar3.stm>

Test dates: Jan 23, Test#1; Feb 27, T#2; Apr.16, T#3

Final Exam: 9:00 am, in class, 1 May 2012

- Last W” date Jan 13
- Jan 16 no classes
- Last “WF” date Feb 27
- Mar 4-11 no classes
- Reading Day Apr 24

Week:	Chapters:	Comments:
#1- 09 Jan	16	Electric charges & field
#2- 16 Jan	17	Potential & capacitance
#3- 23 Jan	18	Current & resistance
#4- 30 Jan	19	Magnetism
#5- 06 Feb	20	Elect Induction
#6- 13 Feb	21	AC
#7- 20 Feb	22	Geo Optics
#8- 27 Feb	23	Opt instruments
#9- 05 Mar	X	Spring break
#10- 12 Mar	24	Wave Optics
#11- 19 Mar	25	Relativity
#12- 26 Mar	26	Atomic structure
#13- 02 Apr	27	Quantum
#14- 09 Apr	28	Quantum mech
#15- 16 Apr	29 & 30	Lasers & Nucleus
#16- 23 Apr	X	Finals prep