

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

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**Professor:** T. Datta

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

**Internet:** LonCapa

**Contact:** [datta@sc.edu](mailto: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

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