

**Tentative Syllabus for Physics 1402  
College Physics  
Summer II 2014**

**Catalog Description:** 1402. *College Physics*. Four semester hours (3 lecture, 2 lab). Magnetism, electricity, sound, and light, including one two-hour laboratory period per week.

- Texts:**
1. College Physics  
by Wilson, Buffa, and Lou
  2. Departmental Laboratory Manual

**Lecture Time and Place:** **MTWR** 10:00-11:50AM Science Building Room 122

**Labs, time, location:**

Section 01	MTWR 8:00 am	Science Building Room 107
Section 02	MTWR noon	Science Building Room 107

**Instructor:** Charles Rogers Office S-238 & Lab S-108 Phone 886-8654/5486  
[charles\\_rogers@tamu-commerce.edu](mailto:charles_rogers@tamu-commerce.edu)

**Office Hours:** One half hour before and after all my classes and by appointment at other times. Typically, I am also available for help most afternoons.

**Course Schedule:**

<u>Date</u>	<u>Chapter and Topic</u>
7-9-12	Chap 15 – electrostatics and electric forces
7-10	Chap 15 – electric fields and Gauss' law
7-11	Chap 16 – electric potential and capacitance
7-13	Chap 16 – dielectrics and combinations of capacitors
7-16	Chap 17 – electric current, resistance, and Ohm's law
7-17	Chap 17 – DC circuits
7-18	Chap 18 – RC circuits
7-19	Chap 18 – ammeters and voltmeters
7-23	Chap 19 – magnetic fields
7-24	Chap 19 – magnetic force
7-25	Chap 20 – electromagnetic induction and electromagnetic waves
7-26	Chap 21 – AC circuits
7-30	Chap 22 – law of reflection and refraction
7-31	Chap 22 – TIR and fiber optics
8-1	Chap 23 – Mirrors and Lenses
8-2	Chap 23 – Gaussian lens equation and the lens maker's equation

8-6	Chap 24 – physical optics
8-7	Chap 24 – optical diffraction and scattering of light
8-8	Chap 25 – camera optics
8-9	Chap 25 – microscopes and telescopes

**Grading Procedure and Scale:**

**Lab Grade:** The laboratory grade counts 25% of the total class grade. The lab grading procedure will be discussed in lab.

**Lecture Grade:** The lecture portion of the grade (i.e. 75%) is determined from five weekly exams each worth 100 points. These exams will be given each Thursday. One exam grade can be dropped from consideration. Missing an exam without first making arrangements for make-up with the instructor (excused absence cleared before the exam) will automatically consume the dropped grade. Missing other class periods will result in penalties as described under the attendance section below.

**Course Grade:** The course grade is determined from the weighted average of the lecture and lab grades according to the schedule below. Grades will **not** automatically be rounded up.

90% and up	A
80% to 90%	B
70% to 80%	C
60% to 70%	D
less than 60%	F

**Attendance and Tardiness:** Students are expected to be on-time and present for all class meetings. Excused absences can be arranged prior to the class period being missed for appropriate activities as determined by the instructor. If an emergency results in an absence, the student should contact the instructor as soon as possible informing the instructor of the emergency and inquiring about ways to make up the missed class. The instructor will make judgements on how to handle the situation. Possible reasons for an excused absence are listed in the “ Student’s Guidebook” under class attendance policy. Attendance and tardy records will be maintained and both may result in deductions from your overall grade.

**Classroom Behavior:** Disorderly conduct which interferes with the normal classroom atmosphere will not be tolerated. The classroom instructor is the judge of such behavior and may instruct a disorderly student to leave the room with an unexcused absence or in more serious situations a student may be removed from the class with a failing grade.

**Cheating and other Breaches of Academic Conduct:** Academic cheating, plagiarism, and other forms of academic misconduct may result in removal of the student from class with a failing grade or may in extreme cases result in suspension or expulsion from the University as described in the “Code of Student Conduct” section of the “ Student’s Guidebook”.

**ADA Eligible Students:** ADA eligible students should make arrangements with the instructor in the first week of the semester about special arrangements needed for classroom or testing facilities and procedures to accommodate the disability.

**Evaluation of Instruction:** Students will be given opportunities to evaluate instruction near the end of the semester. The physics department utilizes a scantron graded questionnaire with statements regarding various elements of instruction and in addition utilizes an open ended form where students can make comments on all elements of the classroom. These comments are given to the instructor and department head soon after the grades are recorded. If students have concerns about the classroom experience during the semester they should inform the instructor of those concerns and failing a satisfactory response may, as a last resort, contact the physics department head with those concerns.