

## Tentative Syllabus for Physics 1402

### COLLEGE PHYSICS II

Spring 2013

<b>Catalog Description:</b>	College Physics Four semester hours (3 lecture, 1 lab) including one two-hour laboratory period per week
<b>Supplemental Description:</b>	This is algebra based physics course. It covers the topics of electric charges, fields, electric potential, capacitance, resistance, circuits and magnets.
<b>Textbook:</b>	College Physics J. D. Wilson, A. J. Buffa, and B. Lou Addison Wesley Seventh Edition, 2010
<b>Lab Manual:</b>	Physics department assembled manual
<b>Lecture Time and Place:</b>	MWF, 8 – 8:50 AM, Room: STC-127
<b>Labs, time, location:</b>	PHYS 1402L-01L, M 1:00 PM – 2:50 PM    STC 107 PHYS 1402L-02L, T 1:00 PM – 2:50 PM    STC 107 PHYS 1402L-03L, W 6:00 PM – 8:00 PM    STC 107
<b>Instructor:</b>	Dr. A. R. Chourasia Office:        STC-232 (STC-113) Phone:        886-5485; 886-5491; Fax: 886-5480 e-mail: <a href="mailto:Anil.Chourasia@tamuc.edu">Anil.Chourasia@tamuc.edu</a>
<b>Office Hours:</b>	2 – 4 pm OR by appointment
<b>Goals of the Course:</b>	Students will gain qualitative knowledge of Electric forces and fields, capacitors and their functions, resistors and their functions, circuits, magnets and magnetic fields, and magnetic induction. They will work on standard quantitative physics problems on the topics of the course. Students will verify, and explore many of these concepts in the laboratory. Laboratory instruction will consist of taking measurements, interacting with computer simulations, analyzing data and writing brief reports describing the experiments.

## **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.  
**You must pass the lab to pass this course**

**Lecture Grade:** The lecture portion of the grade is determined from homework, exams, pop quizzes, and the final exam as outlined below.

- Homework and attendance                    15 %  
(Late Homework penalty 10% each day)
  - Quiz after each chapter  
All quizzes combined will be  
Equivalent to One Test                    15 %
  - Two Exams                                    15 % each
  - Final exam (comprehensive)                15 %
- \* Extra Credit: Enrollment in PHYS 202-001                5%
- |                                |   |
|--------------------------------|---|
| 90 and above:                  | A |
| 80 and above but less than 90: | B |
| 70 and above but less than 80: | C |
| 60 and above but less than 70: | D |
| Less than 60:                  | F |

Missing an exam without first making arrangements for make-up with the instructor (excused absence cleared before the exam) will automatically consume the failing grade. Missing other class periods will result in penalties as described under the attendance section below.

Any decision to curve the grade will be taken at the end of the semester  
**Five unexcused absences will automatically result in a failing grade**

## **Lecture and Test (Tentative)**

Chapter 15	Electric Charge, Force, and Fields
Chapter 16	Electric Potential, Energy, and Capacitance
	TEST 1
Chapter 17	Electric Current and Resistance
Chapter 18	Basic Electric Circuits
	TEST 2
Chapter 19	Magnetism
Chapter 20	Electromagnetic Induction and Waves

**Final Exam is on Monday, May 6 at 8:00 AM**

**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 judgment on how to handle the situation. Possible reasons for 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".

**Students with Disabilities:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services  
Texas A&M University-Commerce  
Halladay Student Services Building  
Room 303 A/D  
Phone (903) 886-5150 or (903) 886-5835  
Fax (903) 468-8148  
[StudentDisabilityServices@tamu-commerce.edu](mailto:StudentDisabilityServices@tamu-commerce.edu)

**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.