

## SYLLABUS PHYS 1404: General Physics II (Dr. Huang), Summer II 2011

<b>Time/Place:</b>	M-F 8:00-9:50 am / Science Building, Room 7	
<b>Instructor:</b>	Prof. J. Huang (Phone: 742-4780, Email: juyang.huang@ttu.edu)	
<b>Office hours:</b>	M-F 10:00-10:50 am, and by appointment, Science Building, Room 35	
<b>Textbook:</b>	D.C. Giancoli, Physics, 6 <sup>th</sup> Edition, Chapters. 16-32 (some materials omitted)	
<b>Grading:</b>	Lab & recitation grade	20%
	3 exams (20% each)	60%
	Final	40%
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	Total:	100% (drop the lowest exam or ½ final)

**Grade Scale:** 100-A-86-B-74-C-62-D-50-F-0.

**Learning Outcomes:** Students should be able to state and understand physical concepts in electromagnetism, optics, and modern physics, and be able to apply these principles to solving problems, both familiar and unfamiliar, in these areas of physics.

**Outcome assessment:** The expected course outcomes will be assessed through quizzes, labs, exams, as well as in-class discussion. The exams will provide a mixture of relatively familiar and unfamiliar problems, which will test the students' abilities to apply reasoning based on the conceptual aspects of the material to their solution.

**Homework:** Textbook homework problems will be assigned for each chapter. Although the homework will not be collected or graded, variations of some of the assigned problems will be selected for the examinations and final. Doing homework is extremely important for you to practice the problem solving skills and to check whether or not you really understand the important concepts. Doing homework on your own is the most effective way to improve your course grade, however group work is also allowed.

**Conceptual Questions:** Conceptual questions for each chapter will be posted at our class website. The answers usually can be found either in my lecture notes or in the textbook. You should work on these questions while you review the lectures, before doing your homework. 15% of the problems in exams will be these conceptual questions.

**Exams:** There will be three in-class 50-minute exams, and a comprehensive final (see class Calendar). The exams cover fundamental concepts and quantitative problems, related to the homework and lectures. The exams are closed book. You may bring a calculator to the examinations and a single 3x5 equation card. *No make-up examinations will be given. In the case of a serious emergency, please see the instructor to discuss how the final grade will be determined.*

**Class Website:** (<http://www.phys.ttu.edu/~huang24/Teaching/Phys1404>): It contains a lot important materials: homework assignments, lecture notes, conceptual questions, and a sample final.

**VERY IMPORTANT:** Experience shows that you should **work at least 5 hours on this course outside of class every day in studying your notes and doing the homework**. Failure to do so will almost surely result in a grade of **D** or **F**. This is the most important recommendation we make to you. Take notes in class, pay attention, and participate by asking and answering questions.

**Disability:** Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as soon as possible to make any necessary arrangements. Students should present appropriate verification from Student Disability Services during the instructor's office hours. Please note instructors are not allowed to provide classroom accommodations to a student until appropriate verification from Student Disability Services has been provided. For additional information, you may contact the Student Disability Services office in 335 West Hall or 806-742-2405.

**Academic dishonesty** will not be tolerated and will be treated according to the Student Handbook rules.