

**PHYS 1444-002**  
**Fall 2012**

**Mo We Fr 10:00am to 10:50 am**  
**SH 103**

**Instructor:** Professor Ali R. Koymen  
**Office Location:** 132A Science Hall  
**Office Hours:** Monday and Wednesday 2:00 to 3:00 pm or by appointment  
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**Web page:** <http://www.uta.edu/physics/main/faculty/koymen/index.html>

**Link to Additional Course info:** [www.masteringphysics.com](http://www.masteringphysics.com)

**Course Prerequisites:** PHYS 1443 and MATH 2425 (or concurrent enrollment) you must also be enrolled in the lab.

**Required Reading/Materials:** Physics for Scientists and Engineers (4<sup>th</sup> edition), Volume II, Giancoli, Pearson/Prentice Hall (2008)

**Course Description:** Second part of two course sequence of introductory, calculus based university level physics.

**Course Learning Goals/Objectives:** The goal of the course is to provide a strong background in fundamental concepts in physics pertaining to electricity, magnetism, circuit theory, light and optics. The course will also emphasize training in analysis using physical principles and problems solving skills.

**Attendance Policy:** Attending the lectures is essential for understanding the course content.

**Drop Policy:** Last day to drop is Oct. 31, 2012. If you dropped for non-payment of tuition, you may secure an enrollment loan through the Bursar's Office. You may not continue to attend class until your enrollment loan has been applied to outstanding fees.

**Tentative Lecture/Topic Schedule (course content):** Heavy emphasis will be placed on Chapters 21-32 of the textbook. Selected topics in Chapters 33-36 will be surveyed.

## Specific Course Requirements with descriptions

**Quizzes (number and type):** There will be **eight in class quizzes** that will involve solving one problem in approximately ten minutes. The quizzes will be 10% of your final grade.

**Examinations (number and type):** We will have **two in class tests** and a comprehensive final. The tests will be given after approximately every four or five chapters. All the tests will be curved linearly.

**Final Examination: Final Exam comprehensive.** The Final Exam is on December 10, Monday, 2012, 8:00 am to 10:30 am (in this room)

**Other Graded Assignments (Homework/Projects/Labs/Research Papers):** Problem sets will be assigned (usually one a chapter) on the web and solutions will be required at the given date and hour. Homework will be graded electronically and will be 15% of your final grade.

**Missed exams, quizzes and makeup work:** No make-up exams will be given except for extreme emergencies.

**Grading Format Weighing/point value of assignments and examinations:** Grades will be calculated according to the formula: term average= 17.5%, (T1 + T2) + 15% (Lab) + 25% (Final) + 10% (Quizzes) + 15% (HW)

90-100 A, 80-89 B, 65-79 C, 50-64 D, 49< F

### **Americans with Disabilities Act:**

The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 - The Rehabilitation Act of 1973 as amended. With the passage of federal legislation entitled *Americans with Disabilities Act (ADA)*, pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty of their need for accommodation and in providing authorized documentation through designated administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability). Also, you may visit the Office for Students with Disabilities in room 102 of University Hall or call them at (817) 272-3364.

**Academic Integrity:**

It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University.

"Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, and the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Series 50101, Section 2.2)

**Student Support Services Available:**

The University of Texas at Arlington supports a variety of student success programs to help you connect with the University and achieve academic success. These programs include learning assistance, developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107 for more information and appropriate referrals.

**Final Review Week:**

A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabi. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. Classes are held as scheduled during this week and lectures and presentations may be given.

**E-Culture Policy:**

The University of Texas at Arlington has adopted the University email address as an official means of communication with students. Through the use of email, UT-Arlington is able to provide students with relevant and timely information, designed to facilitate student success. In particular, important information concerning registration, financial aid, payment of bills, and graduation may be sent to students through email.

All students are assigned an email account and information about activating and using it is available at [www.uta.edu/email](http://www.uta.edu/email). New students (first semester at UTA) are able to activate their email account 24 hours after registering for courses. There is no additional

charge to students for using this account, and it remains active as long as a student is enrolled at UT-Arlington. Students are responsible for checking their email regularly.

**Grade replacement:**

If you are retaking this course in order to replace a previous grade, you must complete the necessary form by census day (September 10). The forms required are located at the Bursar's Office in Davis Hall. If you do not complete the forms by census day, the University will not honor the replacement.

**Library Information:**

Antoinette Nelson is the Physics Librarian. She can be reached at (817) 272-7433 and by email at [nelsona@uta.edu](mailto:nelsona@uta.edu). Other physics information is found on the web site [www.uta.edu/library/research/rt-phys.html](http://www.uta.edu/library/research/rt-phys.html)