

University Physics II, PHY 2326, Section 1

Class Room: RBN4034

Class Time: 9:00 AM Mon, Wed, Fri

Instructor: Jennifer Kreft Pearce

Office:RBN4046

Office Hours: Mon, Wed, and Fri 10-12; other times available by appointment

Email:jkreft@uttyler.edu or jennifer.kreft@gmail.com (best way to contact me)

Office Phone: 903-566-7117

Text: *Physics for Scientists and Engineers, 7th ed*, by Serway and Jewett

Suggested: *Tutorials in Introductory Physics*, by McDermott, Shaffer, et al.

Course description: This is an introductory, calculus based course focused on the physical principles associated with electricity, magnetism and optics.

Grading

Homework (10% of total grade): Homework will be assigned nearly every class period and will be graded on completeness rather than correctness. All work must be shown when completing problems. Although homework is not a large percentage of your total grade, it affords students a chance to practice doing problems very similar to those that will be found on tests. Thus it is essential to complete the homework in order to score well on exams. **Working in groups is encouraged**, but each student must hand in an assignment.

Tests (3 x 20% = 60% of total grade): There will be three opportunities to demonstrate the knowledge you have gained during the semester. Non-programmable calculators only may be used on the tests. You may bring one sheet of paper (notebook size, 8.5x11 inches) with equations, examples, etc. written on it to use during the test. Tentative dates: Sept. 25, Oct. 23, and Dec. 4. THESE WILL CHANGE!, but should give you an idea of spacing.

Final Opportunity (20% of total grade): A comprehensive final covering material from the entire semester will be given on the university appointed date and time (Friday, Dec. 18, 8:00-10:00AM). Students with an "A" average on the three previous tests only will be excused from the final.

Class Participation (10% of total grade): Participation in online discussions and activities related to this class is required. You are expected to contribute at least once per week to online discussions via Blackboard and 5 times in the semester to the class wiki (tylerphysics.netcipia.net).

Final Grades: Final letter grades will be assigned according to: [90%-100%]=A, [80%-90%]=B, [70%-80%]=C, [60%-70%]=D, and >60%=F.

Make-up work: No late work will be accepted. If you know you will miss a class, you must make arrangements in advance and complete all assignments by the due date. 10% of the homework sets will be dropped to allow for unexpected calamities.

Academic Integrity: ***Cheating will not be tolerated. During examinations, students must work alone and neither give help to others nor receive help from other students.*** Students also are expected to help enforce this code. Students are encouraged to obtain a copy of *A Student Guide to Conduct and Discipline at UT Tyler*, available in the Office of Student Affairs.

Student Learning Outcomes (Course Objectives)

1. Develop creative and critical thinking skills.
2. Enhance problem solving strategies and techniques for identifying critical information from among given facts.

3. Gain an in-depth, conceptual understanding of the physical principles involved in electricity, magnetism, optics, and waves.
4. Improve mathematical modeling abilities.
5. Appropriately reason, synthesize knowledge and/or evaluate sources of information necessary to solve problems and/or form perspectives on issues facing the larger community.

Topics will include, but are not limited to:

Vectors, Electric fields, Electric potentials, Circuits, Magnetic fields, Interaction of electric and magnetic fields, Light (EM) waves, Optics.

Tips for a Better Grade

1. Physics is learned by practice. Plan to spend a considerable amount of time on homework, reviewing notes, reading the text, etc.
2. Always attend class. Hearing the lectures and practicing problems in class are good ways to get practice.
3. Do all the Practice Test problems. Real test questions will look frighteningly similar.
4. Try not to fall behind. Physics is cumulative. If you must miss a few class periods for whatever reason, please make arrangements with me to make up the work before you fall too far behind.
5. You are responsible for all the material covered in both lectures and the textbook. You must read the chapters and ask questions if you do not understand the material.
6. Come to office hours and ask questions.
7. **NO EXTRA CREDIT WILL BE GIVEN UNDER ANY CIRCUMSTANCES.**

Last Day to drop without penalty: September 9, 2009.

Disability Statement: If you have a disability, including a learning disability, for which you request disability support services/accommodation, please contact Ida MacDonald in the Disability Support Services office so that the appropriate arrangements may be made. In accordance with federal law, a student requesting disability support services/accommodation must provide documentation of his/her disability to the Disability Support Services counselor. For more information, call or visit the Student Services Office located in the University Center, Room 282. The telephone number is 566-7079 (TDD 565-5579).

Social Security Statement: It is the policy of the University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number.

Note Regarding Student Absence due to Religious Observance: Students who anticipate being absent from class due to a religious observance are requested to inform the instructor by the second class meeting of such absences.

Grade Replacement: If you are repeating this course for a grade replacement, you must file an intent to receive grade forgiveness with the registrar by the 12th day of class (Sept. 9, 2009). Failure to file an intent to use grade forgiveness will result in both the original and repeated grade being used to calculate your overall grade point average. A student will receive grade forgiveness (grade replacement) for only three (undergraduate student) or two (graduate student) course repeats during his/her career at UT Tyler. (2006-08 Catalog, p. 35)