

Physics 1443, Spring 2015
1443-003 Room Science Hall 103 TR 2:00-3:20 pm

Instructor: Haleh Hadavand, hadavand@uta.edu

Office Hours: Tues 3:30-4:30pm Thurs 1-2pm, others by appointment (336 Physics CPB)

Textbook: *Physics for Scientists and Engineers* by Douglas C. Giancoli

1. Grades will be weighted as follows:

Homework	30%
Lab	15%
Quizzes	10%
3 Exams	25% (best 2 grades used)
Final	20%

The grades for the Homework and Exams will be “curved”.

2. Tentative TEST DATES.

Exam #1	Thursday	Feb 19th
Exam #2	Thursday	March 26th
Exam #3	Thursday	April 23rd
Final	Tuesday	May 12th 2-4:30 pm

Note: The Exam dates may slightly change.

3. Material Covered:

Chapters 1 - 4: Estimate, measurements, One dimensional motion, vector and two dimensional motion Optical Instruments

Chapters 4 - 6: Two dimensional motion, Newton's Laws of Motion, Uniform circular motion, Further application of Newton's Laws

Chapters 6 - 7: Further application of Newton's Laws, Work and Kinetic Energy

Chapters 7 - 9: Work and Kinetic Energy, Potential Energy, Energy Conservation, Linear Momentum and Collisions

Chapters 9 - 10: Linear Momentum and Collisions, Rotation

Chapters 11 - 13: Rolling, torque and angular momentum, Equilibrium and elasticity, Gravitation

Chapters 13 - 15: Gravitation, Fluids, Oscillations

Chapters 15 - 17: Oscillations, Waves

Chapters 18 - 20: Temperature, Thermodynamic Laws, Kinetic Theory of Gases, Entropy and the 2nd law of thermodynamics

4. Homework: There will be one homework per week, typically due at 1:30 pm on Tuesdays. Advice: The homework is the most important learning tool in this class. Exam questions will be derived directly from the homework. Reading the book and following lecture is a means of helping you with the homework. There is always a strong correlation between the amount of individual effort put into homework and performance in tests and class.

All homework will be distributed and submitted via the UT Quest Homework system (<https://quest.cns.utexas.edu/>). In order to use this system, you will need to hold a UT Electron Identification account (UT EID). If you do not have a UT EID, follow the “Getting Started” link from the Quest homepage, and click the “I need a UT EID” link. Be sure to write down your assigned UT EID. Once you have a UT EID, login to the Quest system and enroll in the class using the unique class ID 144300315. Your enrollment will need to be validated by the instructor, which might take 24 hours.

Please read the contents of the “Help” page in order to familiarize yourself with the system. Note that the homework system will deduct scores if you input incorrect answers, so your score will be 0 if you try too many times. Solutions will be available on Quest after the due date.

Your first homework assignment, which is due by 1:30 pm on Tuesday January 27th, is to obtain a UT EID and submit solutions to one very basic problem.

5. Important dates

02/04/15	Census Date (Last date to add)
04/03/15	Last Day to Drop
05/08/15	Last Day of Classes
05/12/15	Final

7. **Make-up** final will not be given except in EXTREME circumstances. If you miss the mid-term that grade will be dropped. Best grade out of two exams used.

8. **Drop Policy:** Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering.

Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://web.uta.edu/aao/fao/>).

9. **Americans with Disabilities Act:** The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

10. **Academic Integrity:** Students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University.

11. **Student Support Services:** UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University

College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at www.uta.edu/resources.

12. Lab Safety Training: Students registered for this course must complete all required lab safety training prior to entering the lab and undertaking any activities. Once completed, Lab Safety Training is valid for the remainder of the same academic year (i.e., through the following August) and must be completed anew in subsequent years. There are no exceptions to this University policy. Failure to complete the required training will preclude participation in any lab activities, including those for which a grade is assigned.

13. Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

14. Student Feedback Survey: At the end of each term, students enrolled in classes categorized as “lecture,” “seminar,” or “laboratory” shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

15. 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 syllabus*. 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. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

16. Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, which is located through the double doors right outside of classroom. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.