

**Physics 1443-001**  
**General Technical Physics I**  
**Summer 2020**

**Time: Monday, Tuesday, Wednesday and Thursday, 10:30 AM - 12:30 PM**  
**Main Text Book: "Physics for Scientists and Engineers", 4<sup>th</sup> edition by GIANCOLI**

---

**Instructor: Prof. M. N. Huda**

Office Hours: 3 to 4 PM Tuesdays and Wednesdays, or by appointment.

Office: CPB, Room 339

Tel: (817) 272-1097

E-mail: huda@uta.edu

**Medium of Instruction:** Due to COVID-19 situation, the on-campus classes are suspended for the time. The course will be taught by using online platforms, such as CANVAS and Microsoft Team. Login to CANVAS for detail course related information

**Other useful books:**

Feynman Lectures in Physics Part 1

**Purpose of the course:** This is a calculus based introductory Physics course. We will introduce kinematics, Newton's laws of motion, concept of conservation of energy and momentum, wave motion, ideal gas law and introductory thermodynamics. Depending on the availability of time we may discuss some advanced topics in the last one or two classes.

**Content of the course:** The goal is mainly to cover selected topics from chapters 1 to 20 from the textbook.

**Home Work:** Problems will be assigned and graded on the Web. We will be using the *Quest* Homework system (maintained by UT System). Homework will be assigned two or more times in a week. Due to the nature of the short duration of the semester, some of the homework problems may be assigned in advanced before they are discussed in the class. One lowest grade will be dropped from the Homework those are assigned during the period of the course.

Each student must obtain or use an existing *Quest* access code and/or password, and sign up for the course using this Course Unique Number 33959 (**Please cross check with the instructor's name**).

**Physics Lab:** For details on the lab associated with this course please visit:

<https://www.uta.edu/physics/labs/>

**Attendance:** Attendance is required and graded. Absences should be discussed with the instructor - preferably, before they occur.

**Quizzes:** There will be several in class quizzes distributed over the course period. They will not be announced beforehand. If a student attends all the classes, they should be able to get all the quizzes. In that case, if a student return all the quizzes on class, and has an average grade 90% or above in the quizzes, the student will get a 5% extra credit.

**Exams:** There will be four exams: all exams will be of equal weight.

*First mid-term exam date: 06/16/20120*

Second mid-term exam date: 06/23/2020

Third mid-term exam date: 06/01/2020

The Final exam: 07/09/2019.

**There will be no make-up exam.**

Students must take the exams in class on the days listed above. **There will be no make-up exam.** Missing an exam will need pre-approval from the instructor. **If you miss any exam without pre-approval from the instructor, you'll get an F in the course. (Note: pre-approval does not imply a make-up exam).**

**Grading policy:**

Letter grades will be assigned using the following guideline:

A: 90- 100

B: 75- 90

C: 60- 75

D: 50- 60

F: 0- 50

W: Drop by **June 24, 2019.**

**Note: If you fail in Lab, you fail in the whole course.**

**Total grading: 100% = Exams (4 x 15%=60%) + HW (5%) + Lab (15%) + Quizzes (15%) + Attendance (5%)**

**Email policy:** All electronic communications with the instructor regarding the course purpose must be done via your "mavs.uta.edu" email. If you sent me email from any other domain it may not reach me, so I may not reply.

**Note:**

**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://wweb.uta.edu/aao/fao/>).

**Disability Accommodations:** UT 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)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. 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 disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the **Office for Students with Disabilities (OSD)**. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

**The Office for Students with Disabilities, (OSD)** [www.uta.edu/disability](http://www.uta.edu/disability) or calling 817-272-3364.

**Counseling and Psychological Services, (CAPS)** [www.uta.edu/caps/](http://www.uta.edu/caps/) or calling 817-272-3671.

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](http://www.uta.edu/disability) or by calling the Office for Students with Disabilities at (817) 272-3364.

**Title IX:** *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit [uta.edu/eos](http://uta.edu/eos). For information regarding Title IX, visit [www.uta.edu/titleIX](http://www.uta.edu/titleIX).*

**Academic Integrity:** Students enrolled all UT Arlington courses 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.

**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.

**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>.

**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.

**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 you will find by turning right upon exiting from this class room. 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 individuals with disabilities.

**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](mailto:resources@uta.edu), or view the information at <http://www.uta.edu/universitycollege/resources/index.php>

**The English Writing Center (411LIBR):** Hours are 9 am to 8 pm Mondays-Thursdays, 9 am to 3 pm Fridays and Noon to 5 pm Saturdays and Sundays. Walk In *Quick Hits* sessions during all open hours Mon-Thurs. Register and make appointments online at <http://uta.mywconline.com>. Classroom Visits, Workshops, and advanced services for graduate students and faculty are also available. Please see [www.uta.edu/owl](http://www.uta.edu/owl) for detailed information.

**Please note:**

*As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. –Muhammad N. Huda.*