



### **Text and Other Required Materials**

-The text is “University Physics”, 15th ed., Young and Freedman, Chapter 21-32 see Canvas for registration to Pearson’s online homework. Look for bundled access, including a copy of the text, access to the electronic version of the text, and access for homework and pre-lectures. You may purchase the text separate from the web access for homework and pre-lectures, but there is a price break for purchasing the bundle.

-iClickers will be used in this class. Details for using the student app are available on the class webpage at <http://physics207.physics.tamu.edu>.

-You should also have a non-programmable scientific calculator capable of calculating arithmetic and trigonometric functions for homework, recitations and exams. Programmable calculators will not be allowed on exams. The use of non-approved calculators on an exam will result in a zero for that exam.

-You are expected to regularly check Canvas for announcements and access materials as well as access MasteringPhysics. MasteringPhysics is not designed to work well on phones and as such you should have regular and frequent access to a computer with an internet connection.

### **Pre-Requisites**

(PHYS 218 or 206) and (MATH 152 or 172).

You must have a working knowledge of plane geometry, trigonometry, and algebra, as well as derivatives and integrals, and be proficient in using vectors (addition, subtraction, dot and cross products).

### **Pre-Lectures**

PHYS 207 lectures try to follow a “flipped course” model, and as part of that we are using a pre-lecture system hosted on the Pearson site. See the homework description on Canvas for instructions on accessing our Pearson course. You are required to view the prelectures (narrated slides including a few online questions) ahead of the lectures, and these also include assignments to see if you have gained a basic understanding. The in-class lecture can then be more focused on problem-solving.

### **Lectures and Clickers**

In-class conceptual testing and polling will be done via iClickers. Grade credit for this will be based on participation and correct answers (total of 5%). Most of these questions will be designed to start our discussion of a topic or check to see how well the class understands something we have been working on. Some questions will be over topics not yet discussed in class to make sure you are keeping up with your reading. Credit for such questions will be awarded to everyone who registers a correct response.

### **Exams**

There will be 4 common evening exams (3 “midterms” and one “comprehensive”). The midterm exams are on the extra Monday evening sessions included in the course schedule when you registered; they start at 7:30 pm for the midterms and 4:10 pm for the comprehensive exam on Friday December 2nd. There will be no regularly scheduled final exam. Each of the 3 midterms exams is scheduled for 90 min., the comprehensive for 120 min. Exams generally consist of problems similar in content and difficulty to the problems of the homework and as discussed in class and recitation. Formula sheets will be provided for each exam; example formula sheets are available on the PHYS 207 course website for your reference (<http://physics207.physics.tamu.edu>). You are encouraged to download/print out a copy of the formula sheet for your own use during homework and recitation.

## **Absences**

If you miss an exam due to an university-excused absence as outlined in the University Regulations (see below), you should try to contact your instructor prior to the exam, but no later than the lecture following the missed exam. With an official excuse, the course policy for an absence is to base your midterm-exam average on the remaining completed midterm exams (which increases their individual weight accordingly). A missed comprehensive exam requires a make-up exam. Note: Few conditions qualify as an excused absence, so you must avoid missing exams except for extremely serious circumstances. See Student Rule 7 for details <https://student-rules.tamu.edu/rule07/>

## **Identification**

You **MUST** bring your TAMU student ID with you to all exams for identification purposes.

## **Course Grade**

The overall course grade is composed as follows:

- 3 midterm exams. The midterm exam average will count for 45%.
- Comprehensive exam 30%
- Recitation participation 5%
- Online homework 10%
- Pre-lectures 5%
- iClicker 5%

In addition, if your comprehensive exam score is better than your worst midterm exam score, that lowest midterm score will be replaced with the comprehensive score. Exam scores of a zero due to an unexcused absence, use of programmable calculators or other forms of cheating will not be eligible for replacement. There will not be makeup midterm exams for excused absences. The average of the completed exams will still count for a total of 45% of the overall grade.

## **Grading Scale**

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

## **Recitation**

Along with the lecture portion of the course, we will meet weekly for an 80-minute recitation section. The purpose of these recitation meetings is to give you an opportunity to ask questions about the material covered in recent lectures and prepare to answer the assigned homework questions. Each recitation session will cover representative problems from the chapter being studied. Students are expected to bring a device capable of accessing pdf files from the internet for recitation. You can find these problems posted on the class website at <http://physics207.physics.tamu.edu/Recitations/rec.html>.

## **Homework assignments**

Homework assignments are hosted (in addition to the Pre-lectures) in MyLab and Mastering in Canvas. You are responsible for completing the assigned HW problems and understanding how to solve similar problems. See instructions on Canvas.

The homework assignments for the chapters covered on an exam are due by 11:59 pm in the several evenings leading up to the exam, for example Ch 21 on Thursday, Ch 22 on Friday and Ch 23 on

Saturday for an exam on Monday. Students are given significant flexibility to complete these assignments however it cannot be stressed enough that they should be completed at a similar pace to the chapters covered in class. Do not wait until the day they are due to begin them. While the HW grade credit is only 10%, thoroughly working through and understanding the problems is pivotal to succeeding in this course. Late submissions are **not** accepted, except by extenuating circumstances, but if you feel that you are a part of a situation that deserves further scrutiny, contact your instructor.

Incorrect solution attempts are typically penalized by 3%, depending on the problem type. More details on the grading policy for individual problems are given on the HW website.

There are three naming conventions in Mastering Physics:

Chapter ## Assignment – these are what are considered for the 10% homework grade.

Prelecture Ch. ## -- these are what are considered for the 5% Pre-lecture grade.

Chapter ## Extra Practice – These are extra problems that are available for all students. These will not be considered for a grade for any student.

### Webpages

o Canvas – main course website for your class (will have lecture notes, grades and HW access)

o [physics207.physics.tamu.edu](http://physics207.physics.tamu.edu) – common course website for all sections using the “Physics for Scientist and Engineers” textbook

o <https://mlm.pearson.com/northamerica/masteringphysics/> – Mastering Physics by Pearson for homework submission and pre-lecture materials. Register through the link provided on your Canvas class webpage.

### Course Schedule

The course will proceed in the following order. The material covered on each exam will follow the notation below. Should a situation arise that requires a modification to what is given below, all students will be notified through Canvas and/or email as well as in class (if able).

- Chapter 21 – Electric Charge and Electric Field
- Chapter 22 – Gauss’s Law
- Chapter 23 – Electric Potential
- **Exam 1 on 9/26 covering Chapters 21-23**
- Chapter 24 – Capacitance and Dielectrics
- Chapter 25 – Current, Resistance, and Electromotive Force
- Chapter 26 – Direct-Current Circuits
- **Exam 2 on 10/24 covering Chapters 24-26**
- Chapter 27 – Magnetic Field and Magnetic Forces
- Chapter 28 – Sources of Magnetic Field
- Chapter 29 – Electromagnetic Induction
- Chapter 30 – Inductance
- **Exam 3 on 11/21 covering Chapters 27-30**
- Chapter 31 – Alternating Current
- Chapter 32 – Electromagnetic Waves
- **Comprehensive Exam on 12/2 covering Chapters 21-32**

## University Policies

### Attendance Policy

The university views class attendance and participation as an individual student responsibility. Students are expected to attend class and to complete all assignments.

Please refer to [Student Rule 7](#) in its entirety for information about excused absences, including definitions, and related documentation and timelines.

### Makeup Work Policy

Students will be excused from attending class on the day of a graded activity or when attendance contributes to a student's grade, for the reasons stated in Student Rule 7, or other reason deemed appropriate by the instructor.

Please refer to [Student Rule 7](#) in its entirety for information about makeup work, including definitions, and related documentation and timelines.

Absences related to Title IX of the Education Amendments of 1972 may necessitate a period of more than 30 days for make-up work, and the timeframe for make-up work should be agreed upon by the student and instructor" ([Student Rule 7, Section 7.4.1](#)).

"The instructor is under no obligation to provide an opportunity for the student to make up work missed because of an unexcused absence" ([Student Rule 7, Section 7.4.2](#)).

Students who request an excused absence are expected to uphold the Aggie Honor Code and Student Conduct Code. (See [Student Rule 24](#).)

### Academic Integrity Statement and Policy

"An Aggie does not lie, cheat or steal, or tolerate those who do."

"Texas A&M University students are responsible for authenticating all work submitted to an instructor. If asked, students must be able to produce proof that the item submitted is indeed the work of that student. Students must keep appropriate records at all times. The inability to authenticate one's work, should the instructor request it, may be sufficient grounds to initiate an academic misconduct case" ([Section 20.1.2.3, Student Rule 20](#)).

*You can learn more about the Aggie Honor System Office Rules and Procedures, academic integrity, and your rights and responsibilities at [aggiehonor.tamu.edu](http://aggiehonor.tamu.edu).*

### Americans with Disabilities Act (ADA) Policy

Texas A&M University is committed to providing equitable access to learning opportunities for all students. If you experience barriers to your education due to a disability or think you may have a disability, please contact the Disability Resources office on your campus (resources listed below) Disabilities may include, but are not limited to attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability related needs with Disability Resources and their instructors as soon as possible.

*Disability Resources is located in the Student Services Building or at (979) 845-1637 or visit [disability.tamu.edu](http://disability.tamu.edu).*

## Title IX and Statement on Limits to Confidentiality

Texas A&M University is committed to fostering a learning environment that is safe and productive for all. University policies and federal and state laws prohibit gender-based discrimination and sexual harassment, including sexual assault, sexual exploitation, domestic violence, dating violence, and stalking.

With the exception of some medical and mental health providers, all university employees (including full and part-time faculty, staff, paid graduate assistants, student workers, etc.) are Mandatory Reporters and must report to the Title IX Office if the employee experiences, observes, or becomes aware of an incident that meets the following conditions (see [University Rule 08.01.01.M1](#)):

- The incident is reasonably believed to be discrimination or harassment.
- The incident is alleged to have been committed by or against a person who, at the time of the incident, was (1) a student enrolled at the University or (2) an employee of the University.

Mandatory Reporters must file a report regardless of how the information comes to their attention – including but not limited to face-to-face conversations, a written class assignment or paper, class discussion, email, text, or social media post. Although Mandatory Reporters must file a report, in most instances, a person who is subjected to the alleged conduct will be able to control how the report is handled, including whether or not to pursue a formal investigation. The University's goal is to make sure you are aware of the range of options available to you and to ensure access to the resources you need.

*Students wishing to discuss concerns in a confidential setting are encouraged to make an appointment with [Counseling and Psychological Services \(CAPS\)](#).*

*Students can learn more about filing a report, accessing supportive resources, and navigating the Title IX investigation and resolution process on the University's [Title IX webpage](#).*

## Statement on Mental Health and Wellness

Texas A&M University recognizes that mental health and wellness are critical factors that influence a student's academic success and overall wellbeing. Students are encouraged to engage in healthy self-care by utilizing available resources and services on your campus

*Students who need someone to talk to can contact Counseling & Psychological Services (CAPS) or call the TAMU Helpline (979-845-2700) from 4:00 p.m. to 8:00 a.m. weekdays and 24 hours on weekends. 24-hour emergency help is also available through the National Suicide Prevention Hotline (800-273-8255) or at [suicidepreventionlifeline.org](http://suicidepreventionlifeline.org).*

## COVID-19 Safety and Aggies

To help protect Aggieland and stop the spread of COVID-19, Texas A&M University urges students to be vaccinated and to wear masks in classrooms and all other academic facilities on campus, including labs. Doing so exemplifies the Aggie Core Values of respect, leadership, integrity, and selfless service by putting community concerns above individual preferences. COVID-19 vaccines and masking — regardless of vaccination status — have been shown to be safe and effective at reducing spread to others, infection, hospitalization, and death.