



**Physics and
Astronomy**

EAST TEXAS A&M

PHYS 420.01W: Quantum Mechanics

COURSE SYLLABUS: FALL 2026

INSTRUCTOR INFORMATION

Instructor: Dr. Kurtis A. Williams

Office Location: McFarland Science Building Room 106A

Office Hours:

- Tuesday 11am -- Noon,
- Wednesday 1pm -- 2pm
- Friday 2:30pm -- 3:30pm

University Email Address: Kurtis.Williams@etamu.edu

Preferred Form of Communication: **Email**

Communication Response Time: 1 business day

COURSE INFORMATION

THIS COURSE IS TAUGHT THROUGH THE TEXAS PHYSICS CONSORTIUM

The Texas Physics Consortium is a consortium of multiple physics programs across the state of Texas. East Texas A&M University is an affiliate member of this program. Per the agreement founding the consortium, all ETAMU students taking a course through the consortium are bound by the rules and procedures of the TPS for that course. Information about the TPC can be found through this website:

<https://www.tarleton.edu/tpc/> The Memorandum of Understanding discussing the structure of the TPC can be found at this link: [TPC MOU \(PDF\)](#)

TPC classes are run through synchronous online instruction, and all course materials are available through WTCClass, the West Texas A&M University course management system. ETAMU students are given a WTCClass account for the purposes of this program. WT Class can be accessed through the following link:

<https://login.wtamu.edu/cas/login>

The syllabus/schedule are subject to change.

The ETAMU instructor for the course is simply a local contact. They have no control over course policies, assignments, exams, or grading. Students who have a complaint concerning these policies should begin by contacting the TPC course instructor. If they are not satisfied with the results, they should then contact the TPC Chair, Dr. Daniel Marble, at marble@tarleton.edu. If students are still unsatisfied after pursuing these routes, they should contact the Department Head of the ETAMU Department of Physics and Astronomy, currently Dr. Kurtis Williams (Kurtis.Williams@etamu.edu).

The following pages are the TPC syllabus for this course and should be construed as the official course syllabus for the ETAMU section. All applicable ETAMU policies and procedures also apply.

The syllabus/schedule are subject to change.

Title	Quantum Mechanics I
Semester	Fall 2026
Course Number	PHYS 432, Section: 01
Classroom	Spearman Technology Building, Room 247
Lecture	MWF 10:00 AM – 10:50 AM
Instructor	Dr. Mark Harvey
Office	Spearman Technology Building, Room 205
Office Phone	713 313-1864
E-Mail	mark.harvey@tsu.edu
Home-Page	https://coset.tsu.edu/people/mark-harvey/
Textbook	Introduction to Quantum Mechanics, 3 rd Edition, Griffiths and Schroeter ISBN: 978-1-107-18963-8

Office Hours: MTWTH 1:00 PM – 2:30 PM

Course Lecture Format: Lectures will be conducted via Zoom.

<https://tsu-edu.zoom.us/j/84439887045?pwd=pyYxzBqfAis7ZUzAyCFYn6fNRMrtq.1>

Meeting ID: 844 3988 7045

Passcode: 368969

Course Objective: The objective of this quantum mechanics course is to introduce the student to the formal mathematical principles and physical concepts of non-relativistic quantum theory. We will begin our study with the wave function and one-dimensional potentials before proceeding with quantum formalism, three-dimensional systems, and multi-particle systems. The study of symmetries and conservation laws will be optional.

Homework: Approximately 4 – 7 problem sets will be assigned at the end of each chapter. All problem assignments from the textbook will be uploaded by the student to the WTCClass Canvas resource. This resource will make it more convenient to grade student homework.

Tentative Quantum Mechanics Lecture Topics:

Topic 1: Foundations and the Wave Function

Topic 2: One-Dimensional Quantum Systems

Topic 3: Mathematical Formalism

Topic 4: Three-Dimensional Systems and the Hydrogen Atom

Topic 5: Multi-Particle Systems

Topic 6: Symmetry Principles (Optional)

We'll use Canvas for communication throughout this semester. Please check your page frequently.

Exam Policy: A Midterm exam and a Final exam will be given. Exam questions will require demonstration of critical thinking skills. Partial credit will be awarded if there is sufficient evidence that the student has the right idea; however, they made a simple arithmetic/algebraic mistake.

Attendance Policy: Class attendance and punctuality are required. Attendance will be taken at the beginning of every class. Unexcused absences may result in a grade reduction of 1% per academic hour.

Important Dates:

First Day of this TPC Class	August 24, 2026
Midterm Week	October 3, 2026 – October 9, 2026
Last Day to Drop	November 6, 2026
Last Day of this TPC Class	December 4, 2026

Grading: The final grade is based on a midterm exam, final exam, homework assignments, and quizzes. The grading percentages for all assignments are listed in the table below:

1. Homework;	40%
2. Midterm;	25%
3. Final Exam;	25%
4. Quizzes	10%

Tests: The exam dates are shown below. All tests/exams are cumulative.

Midterm Exam Monday, October 5, 2026

Final Exam Period: December 5 – 10, 2026 (No Early Exams Given)

Grade Scale:	97-100	A+
	93-96	A
	90-92	A-
	87-89	B+
	83-86	B
	80-82	B-
	77-79	C+
	73-76	C
	70-72	C-
	67-69	D+
	63-66	D
	60-62	D-
	< 60	F

STUDENTS' RESPONSIBILITIES

- In the event of significant personal problems (i.e., medical, family, etc.), which might cause the student to miss many classes, the Dean of Students is available to counsel you on how to meet your academic responsibilities. It is your obligation to make these arrangements and not go to the instructor (particularly at the “last minute”).
- Excessive tardiness will not be permitted. Students who are not on time will not be allowed entry into the class. Also, cell phone and/or computer usage is NOT permitted during class time.
- Academic dishonesty will not be tolerated. If a student cheats, and this is proven beyond a doubt, he/she will be dropped from the course and sanctioned by the appropriate academic authorities.

Classroom Accommodations for Students with Disabilities

In accordance with the Americans with Disabilities Act (ADA), Texas Southern University (TSU) is committed to providing equitable access to learning opportunities to students with documented disabilities (e.g., mental health, attentional, learning, chronic health, sensory, or physical). For each class/term/semester where a student needs academic adjustments/accommodations, the qualified student must work with the Student Accessibility Services Office (SASO). Contact with the SASO should be made as soon as possible to ensure academic needs are met in a reasonable time. **Only the SASO can grant, modify, or withdraw academic adjustments/accommodations.**

If you have not yet established services through SASO but have a temporary health condition or permanent disability that requires accommodations, you are welcome to contact SASO by using the information listed on the following webpage: <https://www.tsu.edu/students-services/departments/disability-services/register-with-the-ods>. The SASO office offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions qualifying for accommodations/academic adjustments. Reasonable accommodations are established through an interactive process between you, your faculty, and SASO. Only those academic adjustments/reasonable accommodations granted by the SASO are recognized by TSU. TSU's policy and practice is to create an inclusive and accessible learning environment consistent with federal and state law.

Title IX/Pregnant and Parenting Students Syllabus Statement

Addressing Incidents of Title IX Sexual Harassment

In accordance with Title IX of the Education Amendments of 1972, Texas Southern University (TSU) prohibits unlawful sexual harassment against any participant in its education programs or activities. Title IX requires schools to take steps to prevent and remedy sexual harassment, hostile environment, including sexual violence, gender-based harassment, dating/domestic violence, and stalking. This prohibition against sexual harassment – including sexual violence – applies to TSU students, employees, and visitors to campus.

TSU's policy is to provide an educational, employment, and business environment free of sexual violence, unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment as prohibited by state and federal law. Incidents of Sexual Misconduct should be reported to the college Title IX Coordinator, as outlined in policy. Reports of alleged Title IX violations may be made by visiting: <https://app.smartsheet.com/b/form/4e1d5ba471ee442082f477910cb1b4c4>. Reports may also be made directly through email to TitleIX@TSU.edu.

Pregnant and parenting students should expect to obtain reasonable academic adjustments/accommodations based on their pregnant and parenting status to maintain access to the educational environment. These students should work with the Title IX Coordinator for appropriate academic adjustments/accommodations. TSU cannot grant retroactive adjustments, so reaching out early with requests is important. Discrimination against pregnant and parenting students is also prohibited under Title IX. For more pregnant and parenting information, please visit the Title IX webpage found at: <https://www.tsu.edu/about/administration/office-of-compliance/title-ix/>