



# Physics

AS (60 SCH\*)

\*Semester Credit Hour

7/2023

## First Semester - 17 SCH

ENGL 1301 - Composition I  
MATH 2413 - Calculus I  
HIST 1301 - United States History I  
CHEM 1411 - General Chemistry I  
EDUC/PSYC 1300 - Learning Framework

## Second Semester - 16 SCH

ENGL 1302 - Composition II  
MUSI 1306 - Music Appreciation  
HIST 1302 - United States History II  
MATH 2414 - Calculus II  
ECON 2301 - Principles of Macroeconomics

## Third Semester - 14 SCH

MATH 2415 - Calculus III  
COSM 1336 - Programming Fundamentals I  
GOVT 2305 - Federal Government  
PHYS 2425 - University Physics I

## Fourth Semester - 13 SCH

MATH 2320 - Differential Equations  
HIST 2321 - World Civilizations I  
GOVT 2306 - Texas Government  
PHYS 2426 - University Physics II

## Marketable Skills

- Using scientific rules and methods to solve problems.
- Understanding physical principles, laws, interrelationships, and applications for dealing with fluid, material and atmospheric dynamics and mechanical, electrical, atomic, and subatomic structures and processes.
- Knowledge of the physical principles and skills necessary to solve engineering and technology problems, and to design and produce technical goods and services.
- Application of critical thinking, logic, and scientific reasoning to solve emerging problems in new areas such as developing new energy sources, biophysics systems and technology, sports medicine, and environmental control changes.
- Developing skills to develop and enhance a career in teaching, research, technology, engineering, and physics-related areas in the future.

## Program Outcomes

- Demonstrate mastery of the processes of science, the scientific method and established scientific knowledge.
- Demonstrate knowledge of basic terminology and understanding of major physical science concepts.
- Use appropriate laboratory techniques and equipment safely and proficiently.

## High School Endorsements

STEM

## Expected Salary

**Texas wage data:** workers on average earn \$111,300; 10% of workers earn \$49,620 or less; 10% of workers earn \$195,320 or more. **US wage data:** workers on average earn \$129,850; 10% of workers earn \$67,450 or less; 10% of workers earn \$208,000 or more.

## Transfer Path/Requirements

For Texas A&M-Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M-Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Physics major, 11 advanced courses are required by TAMU-Commerce: PHYS 412 (Electricity and Magnetism) plus 10 courses in quantum mechanics, waves and motion, astronomy, and mathematical/computational physics.
- Required support courses include differential equations and Calculus 3.

## Career Opportunities

**BS Minimum:** Physical Scientist Assistant; Radiologic Technologist; Magnetic Resonance Imaging Technologist; Nuclear Medicine Technologist; Physics Teacher (secondary). **MS Minimum:** Physicist; Astronomer; Physics Teacher (Postsecondary); Atmospheric / Space Scientist; Materials Scientist; Physical Scientist.