



Science
Associate of Science
Pre-Engineering/Physics Track

AS.SCIE
2023-2024

Texas Southmost College
Division of Arts and Sciences

This degree plan is designed for students who seek to transfer into bachelor degree programs in engineering or physics.

Recommended Course Sequence

Core Courses	Credits	Suggested Semester/Year
ENGL 1301* Composition I	3	Fall/Year 1
HIST 1301 United States History I OR HIST 2327‡ Mexican American History I (to the United States-Mexico War Era)	3	Fall/Year 1
MATH 2412* Pre-Calculus	4	Fall/Year 1
XXXX X3XX† Social & Behavioral Sciences Elective	3	Fall/Year 1
ENGL 1302* Composition II	3	Spring/Year 1
CHEM 1311* General Chemistry I	3	Spring/Year 1
CHEM 1111* General Chemistry I Lab	1	Spring/Year 1
HIST 1302 United States History II OR HIST 2327‡ Mexican American History I (to the United States-Mexico War Era)	3	Spring/Year 1
GOVT 2305* Federal Government	3	Summer/Year 1
X3XX* Component Area Option	3	Summer/Year 1
CHEM 1312* General Chemistry II	3	Fall/Year 2
CHEM 1112* General Chemistry II Lab	1	Fall/Year 2
XXXX X3XX† Language, Philosophy & Culture Elective	3	Fall/Year 2
GOVT 2306* Texas Government	3	Spring/Year 2
XXXX X3XX† Creative Arts Elective	3	Spring/Year 2
Program Courses	Credits	Suggested Semester/Year
MATH 2413* Calculus I	4	Spring/Year 1
MATH 2414* Calculus II	4	Fall/Year 2
PHYS 2325* University Physics I	3	Fall/Year 2
PHYS 2125* University Physics I Lab	1	Fall/Year 2
PHYS 2289* Academic Cooperative (Research & Design)	2	Spring/Year 2
PHYS 2326* University Physics II	3	Spring/Year 2
PHYS 2126* University Physics II Lab	1	Spring/Year 2
Total Credit Hours for Graduation	60	

Program Student Learning Outcomes

Program Student Learning Outcomes (PSLO) are statements that specify what students will know, be able to do or be able to demonstrate when they have completed the program.

1. Graduates of the AS Science Program will be able to explain the basic components of the theory of evolution by natural selection and describe how it has led to the unity and diversity of life.
2. Graduates of the AS Science Program will be able to apply major concepts and theories in Chemistry to describe or explain chemical phenomena.
3. Graduates of the AS Science Program will be able to apply the principles and concepts of classical mechanics to explain physical processes in the natural world.
4. Graduates of the AS Science Program will be able to demonstrate appropriate application of the scientific method.

Check course core designation at the [Class Availability website](#).

This information is provided as an example only. You will develop a personalized plan with your Success Coach and faculty advisor/mentor that reflects your goals and interests. You are required to meet with an advisor each semester to ensure you are on track for graduation. This document does not contain all the information you need to stay on track for graduation.

*Grade of "C" or better is required for graduation.

†Students may take any course within this category of the TSC General Education Core Curriculum.

‡Courses must be taken in sequence: United History I and United History II or Mexican American History I and Mexican American History II.