Engineering (Online)

Associate of Science

2025-2026

Division of Business, Engineering, Architecture and Technology

The Associate of Science in Engineering degree plan is designed for students who seek to further their educational and professional career goals in the field of civil or mechanical engineering. Graduates from the program can choose to pursue a bachelor's degree in any of the engineering specializations.

Recommended Course Sequence

General Education/Core Curriculum Courses	Credits	Suggested Semester
ARCH 1301* Architectural History I	3	Fall/Year 1
ENGR 1201* Introduction to Engineering	2	Fall/Year 1
ENGL 1301* Composition I	3	Fall/Year 1
MATH 1314* College Algebra	3	Fall/Year 1
HIST 1301* United States History I	3	Fall/Year 1
MATH 2413* Calculus I	4	Fall/Year 1
HIST 1302* United States History II	3	Spring/Year 1
PHYS 2325* University Physics I	3	Spring/Year 1
PHYS 2125* University Physics I Lab	1	Spring/Year 1
ENGL 2311* Technical and Business Writing	3	Fall/Year 2
GOVT 2305* Federal Government	3	Fall/Year 2
ECON 2301* Principles of Macroeconomics	3	Fall/Year 2
PHYS 2326* University Physics II	3	Fall/Year 2
PHYS 2126* University Physics II Lab	1	Fall/Year 2
GOVT 2306* Texas Government	3	Spring/Year 2
XXXX X3XX† Language, Philosophy & Culture Elective	3	Spring/Year 2
Program Courses	**Credits**	**Suggested Semester**
ENGR 1304* Engineering Graphics I	3	Spring/Year 1
MATH 2414* Calculus II	4	Spring/Year 1
ENGR 2301* Engineering Mechanics: Statics	3	Fall/Year 2
ENGR 2308* Engineering Economics	3	Spring/Year 2
ENGR 2302* Engineering Mechanics: Dynamics	3	Spring/Year 2
ENGR 2332* Mechanics of Materials	3	Spring/Year 2
Total Credit Hours for Graduation	**60**	

*Grade of "C" or better is required for graduation.
†Students may take any course within this category of the TSC General Education Core Curriculum.

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. Understand and comply with the professional responsibilities and the ethical canons vital to the practice of engineering.
2. Conduct experiments and communicate effectively scientific results, mathematical solutions, and engineering principles.
3. Work in teams and demonstrate proper and safe us of instrumentation and software in performing laboratory experiments.

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.