Computer Science
Associate of Science

AS.COSC
2024-2025

Texas Southmost College
Division of Business, Engineering, Architecture, and Technology

The Associate of Science in Computer Science (AS.COSC) degree prepares professionals in the areas of software development. This degree is designed to lead students to transfer into a four-year university and obtain a Bachelor of Science in Computer Science or a Master of Science in Computer Science.

Recommended Course Sequence

FIRST YEAR – FALL SEMESTER	Credits	Core/Program
COSC 1436* Programming Fundamentals I	4	Program
MATH 2413* Calculus I	4	Core
ENGL 1301* Composition I	3	Core
HIST 1301* United States History I	3	Core
FIRST YEAR – SPRING SEMESTER	**Credits**	**Core/Program**
COSC 1437* Programming Fundamentals II	4	Program
MATH 2305* Discrete Mathematics	3	Program
ENGL 1302* Composition II	3	Core
HIST 1302* United States History II	3	Core
FIRST YEAR – SUMMER 1 SEMESTER	**Credits**	**Core/Program**
CHEM 1311‡ General Chemistry I OR BIOL 1306‡ Biology I for Science Majors	3	Core
CHEM 1111‡ General Chemistry I Lab OR BIOL 1106‡ Biology for Science Majors Laboratory I (lab)	1	Core
SECOND YEAR – FALL SEMESTER	**Credits**	**Core/Program**
COSC 2436* Programming Fundamentals III	4	Program
MATH 2414* Calculus II	4	Program
PHYS 2325* University Physics I	3	Core
PHYS 2125* University Physics I Lab	1	Core
GOVT 2305* Federal Government	3	Core
SECOND YEAR – SPRING SEMESTER	**Credits**	**Core/Program**
COSC 2425* Computer Organization	4	Program
PHYS 2326* University Physics II	3	Program
PHYS 2126* University Physics II Lab	1	Program
GOVT 2306* Texas Government	3	Core
XXXX X3XX*† Language, Philosophy & Culture Elective	3	Core
Total Credit Hours for Graduation	**60**	

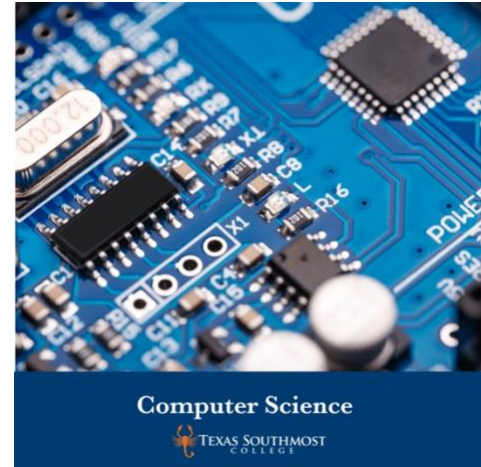Check course core designation at the [Class Availability website.](#)

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.

Computer Science
TEXAS SOUTHMOST COLLEGE

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 will be able to apply information structures to computer science applications.

2. Graduates will be able to explain data representation and the transformation of data.

3. Graduates will be able to identify the role of computer hardware in the processing of information.

4. Graduates will be able to apply their understanding of software and hardware structures in scientific or industrial applications.

---

*Grade of "C" or better is required for graduation.
†Students may take any course within this category of the TSC General Education Core Curriculum.
‡Students transferring to a 4-year university are recommended to take CHEM 1311* CHEM 1111* or BIOL 1306* BIOL 1106.
¶This degree is not Core Complete.