



# Computer Science

AS (60 SCH\*)

\*Semester Credit Hour

5/2024

## First Semester - 16 SCH

COSC 1301 - Introduction to Computing  
EDUC/PSYC 1300 - Learning Framework  
ENGL 1301 - Composition I  
HIST 1301 - United States History I  
MATH 2413 - Calculus I

## Second Semester - 16 SCH

DRAM 1310 - Introduction to Theater  
ENGL 1302 - Composition II  
HIST 1302 - United States History II  
MATH 2414 - Calculus II  
SPCH 1321 - Business & Professional Communication

## Third Semester - 14 SCH

COSC 1436 - Programming Fundamentals I  
ECON 2302 - Principles of Microeconomics  
GOVT 2305 - Federal Government  
PHYS 2425 - University Physics I

## Fourth Semester - 14 SCH

COSC 1437 - Programming Fundamentals II  
COMM 1307 - Introduction to Mass Communications  
GOVT 2306 - Texas Government  
PHYS 2426 - University Physics II

## Marketable Skills

Coordinate software or hardware installation; Monitor computer system performance to ensure proper operation; Test software performance; Troubleshoot issues with computer applications or systems; Modify software programs to improve performance; Test, maintain, and monitor computer programs and systems, including coordinating the installation of computer programs and systems; Troubleshoot program and system malfunctions to restore normal functions; Analyze business problems; Interact with computers; Process information; Communicate with supervisors, peers, or subordinates; Analyze data or information.

## Program Outcomes

- Analyze a problem definition to identify inputs, processes, and outputs required to present a viable solution.
- Utilize industry standard application software to produce personal, business, and academic reports and presentations.
- Demonstrate knowledge of computer Industry terminology and jargon.
- Recognize the interaction of stand-alone and network devices, operating systems, and applications.

## High School Endorsements

STEM

## Expected Salary

**Texas wage data:** workers on average earn \$97,240; 10% of workers earn \$58,140 or less; 10% of workers earn \$162,110.

## Additional Education Opportunities

Students should consider a BS and MS in Computer Information Systems, Computer Science, or Management Information Systems.

## Career Opportunities

Programming; Database Administrator; Systems Development/Analysis; Computer Support Specialist; Software Development; Web Developer; Computer Engineer.