Computer Science

AS (60 SCH*)
*Semester Credit Hour

7/2023

First Semester - 15 SCH

COSC 1301 - Introduction to Computing
EDUC/PSYC 1300 - Learning Framework
ENGL 1301 - Composition I
HIST 1301 - United States History I
MATH 1314 - College Algebra

Second Semester - 15 SCH

DRAM 1310 - Introduction to Theater
ENGL 1302 - Composition II
HIST 1302 - United States History II
MATH 2312 - Pre-Calculus Math
SPCH 1321 - Business & Professional Communication

Third Semester - 17 SCH

COSC 1336 - Programming Fundamentals I
MATH 2413 - Calculus I
ECON 2302 - Principles of Microeconomics
GOVT 2305 - Federal Government
PHYS 2425 - University Physics I

Fourth Semester - 13 SCH

COSC 1337 – 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

Additional Education Opportunities

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

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.

Career Opportunities

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