

COMPUTER SCIENCE (Programming and Software Development)

COURSES



9th

Principles of Information Technology
OR
Computer Science I

10th

Computer Science II

11th

AP Computer Science A
OR
AP Computer Science Principles

12th

AP Computer Science A
OR
AP Computer Science Principles

Postsecondary Options

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Certified Computing Professional	Computer Programming/ Programmer Genera	Management Information Systems, General	Computer Software Engineer
	Cloud Technology Associate Certification	Computer Software Engineer		Computer Science
	AEM 6 Developer	Computer Science		Information Science/ Studies
	Certified Software Analyst		Information Science/ Studies	

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Software Developer, Systems Software	\$103,334	2,985	25%
Software Developers Applications	\$104,499	6,311	30%
Computer Programmers	\$79,893	1,454	9%

For more information on postsecondary options for this program of study, visit TXCTE.org.

The Programming and Software Development program of study explores the occupations and education opportunities associated with researching, designing, developing, and testing operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This program of study may also include exploration into creating, modifying, and testing the codes, forms, and script that allow computer applications to run.

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
UIL Academics

Work Based Learning Activities:
TBD



The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Successful completion of the Computer Science program of study will fulfill requirements of the Business and Industry and STEM endorsement if the math and science requirements are met.

