Programming and Software Development

Fundamentals of Computer Science

AP Computer Science Principles OR
AP Computer Science A OR
Computer Science I

AP Computer Science Principles OR
AP Computer Science A OR
Computer Science II

Computer Science II OR
Practicum in Information Technology

Computer Network Architect	$111, 633	1,454	9%
Software Developer, Systems Software	$103, 334	2985	25%

Oracle Certified Association JAVA

Certified Computing Professional

Computer Programming/Programmer General

Mangement Information Systems, General

Cloud Technology Associate Certification

Computer Software Engineer

MTA Java

AEM 6 Developer

Computer Science

Certifed Software Analyst

Information Science/Studies

*Includes Level I and Level II Certificates

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

Exploration Activities:

Join TSA
Participate in a coding club at school.

Work Based Learning Activities:

Obtain an industry based certification.

Successful completion of the Programming and Software Development program of study will fulfill requirements of a Business and Industry or STEM Endorsement. Approved Statewide Program of Study - September 2019 - Modified by Weslaco ISD Career & Technical Education

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Fundamentals of Computer Science	03580140 (.5 to 1 credit)	None	9-12
Computer Programming I	13027600 (1 credit)	None	10-12
AP Computer Science Principles	A3580300 (1 credit)	None	9-12
Computer Science I	03580200 (.5 to 1 credit)	PREQ: Algebra I	9-12
Introduction to C# Programming Applications	N1302812 (1 credit)	None	11-12
AP Computer Science A	A3580110 (1 credit) A3580120 (1 credit)	None	9-12
Mobile App Development	03580390 (.5 to 1 credit)	PREQ: Algebra I	11-12
Computer Programming II	13027700 (1 credit)	None	11-12
Computer Science II	03580300 (1 credit)	PREQ: Algebra I, Computer Science I, or Fundamentals of Computer Science	11-12
Computer Science III	03580350 (1 credit)	PREQ: Computer Science II, AP Computer Science A	12
Practicum in Information Technology	13028000 (2 credit) 13028005 (3 credit) 13028010 (2 credit) 13028015 (3 credit)	PREQ: Two high school information technology courses	12
Practicum in A/V Production	13008700 (2 credit) 13008705 (3 credit) 13008710 (2 credit) 13008715 (3 credit)	PREQ: Audio/Video Production II Lab	11-12
Practicum in STEM	13037400 (2 credit) 13037405 (3 credit) 13037410 (2 credit) 13037415 (3 credit)	PREQ: Algebra I and Geometry	12
Career Preparation I	12701300 (2 credit) 12701305 (3 credit)	None	11-12

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CAREER CLUSTER, PLEASE CONTACT:

https://tea.texas.gov/cte