Computer Science I OR
AP Computer Science Principles
Level 2

AP Computer Science A OR
Computer Science II
Level 3

HIGH SCHOOL/
INDUSTRY
INDUSTRY
GERTIFICATION
certification

| CERTIFICATE/ |
| :---: |
| LICENSE* |
| Certified |
| Computing |
| Professional |



BACHELOR'S
MASTER'S/
DOCTORAL
PROFESSIONAL
DEGREE

Cloud Technology
Associate
Certification

AEM 6 Developer
Computer Science

Certifed
Software Analyst

## *Includes Level I and Level II Certificates

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


## WORK BASED LEARNING AND EXPANDED

 LEARNING OPPORTUNITIES
## Exploration Activities:

## Join TSA

Participate in a coding club at school.

## Work Based Learning Activities:

Obtain an industry based certification.

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 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

It is the policy of Weslaco ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

## 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) <br> 13028005 (3 credit) <br> 13028010 (2 credit) <br> 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) <br> 12701305 (3 credit) | None | 11-12 |

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

