



### Career and Technical Education Instructional Program Information

<b>Program Name: Software and App Design</b>	<b>CIP CODE: 11.0202.00</b>
--	-----------------------------

**Description:** The **Software and App Design** program is designed to prepare students for employment/postsecondary education related to the design, development, installation, implementation, use and management of computers. The program prepares students for employment in various positions such as: Help Desk Technician/Manager, Information Architect, IT Designer, PC Technician, Program Analyst Systems Analyst, Systems Operations Specialist, Technical Sales Representative, and Technical Support Technician/Manager. An integrated approach of teaching and learning is provided as students enhance their technical knowledge and skills that are associated with functions within Software Development occupations. In addition to the occupation related skills, students completing this program will also develop advanced critical thinking, applied academic, interpersonal relations, life management, business, economic, and leadership skills. as well as, required workplace employability skills. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experiences, and the Career and Technical Student Organization, FBLA and/or SkillUSA.

GPS Comprehensive High School Sites Offering the Instructional Program:				
Campo Verde HS	Desert Ridge HS	Gilbert HS	Highland HS	Mesquite HS
Yes	Yes	Yes	Yes	N/A

**Program Technical Standards and Measurement Criteria:**  
<https://www.azed.gov/cte/sd/>

Program Information:		
Career and Technical Student Organization Affiliation	Carnegie Units Required (Number of Credits to Complete Program)	Non-Traditional Designation (Gender comprise less than 25% of the individuals employed in the workforce.)
<a href="#">FBLA</a> or <a href="#">SkillsUSA</a>	2	N/A

<b>Course Offerings:</b>		
<b>Sequence of Instruction</b>	<b>Course Code (CIP)</b>	<b>Gilbert Schools Course Title</b>
Game Dev. - 1	11.0202.13	BT155 GAME DEVELOPMENT I
Game Dev. - 2	11.0202.40	BT156 GAME DEVELOPMENT II
Game Dev. - 3	11.0202.45	BT157 GAME DEVELOPMENT III
Programing - 1	11.0202.13	BT150 COMPUTER PROGRAMMING I
Programing - 1	11.0202.40	BT151 COMPUTER PROGRAMMING II
AP Computer Science- 1	11.0202.13	BT199 AP COMPUTER SCIENCE PRINCIPLES
AP Computer Science- 2	11.0202.40	BT200 AP COMPUTER SCIENCE
AP Computer Science – 3	11.0202.45	BT206 HONORS ROBOTICS
All Areas	11.0202.77	CT361 SOFTWARE & APP DESGIN INTERNSHIP

<b>Student Industry Certification(s):</b>	
<b>Certification Title</b>	<b>Link to Certification Information</b>
Information Technology Specialist: Java, HTML & CSS, JavaScript, Python, or HTML 5 App Developer (A-F CCRI eligible)	<a href="#">Information Technology Specialist</a>

<b>Teacher Certification(s) Requirements:</b>	
<b>Certification Title</b>	<b>Link to Certification Information</b>
Career and Technical Education Industrial and Emerging Technologies OR Career and Technical Education Business and Marketing	<a href="https://www.azed.gov/cte/certification">https://www.azed.gov/cte/certification</a>