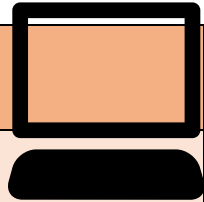




Career and Technical Education (CTE) Information Technology Cluster



Career Possibilities	<p>Computer Systems Engineer, Architect Computer User Support Specialist Multimedia Artist, Animator Software Engineer Radio, TV Broadcast Technician Web Developer Customer Service Representative Medical Transcriptionist Network Systems Analyst</p>	<p>Game Designer Programmer Webmaster Graphic Designer Telecommunications Equipment Installer Data Entry Specialist Computer Security Specialist Geographic Information Systems (GIS) Technician Internet Entrepreneur</p>
Year 1 Pathway Course	Complementary Pathway Courses * = course has a pre-requisite	
<p>Computer Programming (formerly Computer Science)</p> <p>This course features Java or Python and teaches problem solving and program designing.</p>	<p>Computer Information Systems (26614) & Computer Information Systems Advanced** (26649 (96649W)) Computer Programming Advanced* (26643) & Computer Science AP* (33185) Cybersecurity I: Cybersecurity Fundamentals DE (96659W) and/or Cybersecurity I: Networks (96653W) and/or Cybersecurity I: Operating Systems (96654W) Database Management I(26660) IB Information Technology in a Global Society (SL)(26616) Introduction to Information Technology (26116) Web Page Design & Multimedia (96646W) & Web Page Design & Multimedia Advanced*(26631)</p>	
<p>Introduction to Game Design (28461) This course features modeling, simulation, and game development using Unity.</p>	<p>Computer Programming (26638) & Computer Programming Advanced* (26643)</p>	
<p>Introduction to Information Technology (IT) (26116)</p> <p>This course focuses on setting up home networks, web-based applications, programming concepts and intro to cybersecurity.</p>	<p>Computer Information Systems (26614) & Computer Information Systems Advanced** (26649 (96649W)) Computer Programming & Computer Programming Advanced* (26643) Cyber: Cisco Networking Academy Level I, Part I(26542 (96542W)) Cybersecurity I: Cybersecurity Fundamentals DE (96659W) and/or Cybersecurity I: Networks (96653W) and/or Cybersecurity I: Operating Systems (96654W) Cybersecurity II Computer Software Network(96657W) and/or Cybersecurity II: Cybersecurity Software Operation*(26662) and/or Cybersecurity II: Computer Software Operations DE*(96657W) Database Management I(26660) IB Information Technology in a Global Society (SL)(26616) Web Page Design & Multimedia (96646W) & Web Page Design & Multimedia Advanced*(26631)</p>	

Year 1 Pathway Course	Complementary Pathway Courses * = course has a pre-requisite
<p>Web Page Design & Multimedia (26646) (Dual Enrollment option 96646W)</p> <p>This course focuses on designing and creating desktop-published projects, multimedia presentations/projects, and Web sites using industry- standard application software.</p>	<p>Accounting (26320) Computer Information Systems (26614) & Computer Information Systems Advanced* (26649) (96649W)) Computer Programming (6640) Computer Programming Advanced* (26643) & Computer Science Principles AP* (33186) Cybersecurity I: Cybersecurity Fundamentals DE (96659W) and/or Cybersecurity I: Networks (96653W) and/or Cybersecurity I: Operating Systems (96654W) IB Business and Management SL (36114) or IB Information Technology in a Global Society (SL)(26616) Introduction to Business & Marketing (26112) Introduction to Information Technology (26116) Web Page Design & Multimedia Advanced* (DE option) (26631)</p>
<p>Computer Information Systems (26614) (96614W)</p> <p>This course introduces computer concepts, operating systems, networks, telecommunications, and emerging technologies.</p>	<p>Accounting (26320) Computer Information Systems Advanced*(26649 (96649W)) Computer Programming (26638) & Computer Programming Advanced* (26643) Cybersecurity I: Cybersecurity Fundamentals DE (96659W) and/or Cybersecurity I: Networks (96653W) and/or Cybersecurity I: Operating Systems (96654W) Database Management I (26660) Entrepreneurship (29094) & Entrepreneurship Advanced DE*(99095W) IB Business and Management SL (36114) or IB Information Technology in a Global Society (SL) (26616) Introduction to Business & Marketing (26112) Introduction to Information Technology (26116) Web Page Design & Multimedia (96646W) & Web Page Design & Multimedia Advanced*(26631)</p>
<p>Cyber: Cisco Academy Level 1 Part I (26542) (DE 96542W)</p> <p>This course introduces skills needed to become network technicians, PC support specialists, information systems operators, and network security analyst.</p>	<p>Cyber: Cisco Academy Level 1 Part II (26543) (DE 96543W))</p>
<p>Cybersecurity Level 1: Cybersecurity Fundamentals (26659) (DE 96659W)</p> <p>This course introduces installation of operating systems and software, set up and management of accounts, and establishment and implementation of security plans.</p>	<p>Cybersecurity Network Systems (26667) (DE96667W)</p>
<p>Information Technology Cluster</p>	<p><i>The cluster focuses on career related to design, development, support, and management of hardware, software, multimedia, and system integration services. (Advance CTE)</i></p>
<p>APS Program of Studies: https://www.apsva.us/instruction/curriculum-instruction/program-of-studies/ CTE website: https://www.apsva.us/ctae/ (Cybersecurity levels 2 & 3 can be found in the APS Program of Studies)</p>	