



Science,
Technology,
Engineering &
Mathematics

2021 - 2022

Computer Application Design Academy

Science, Technology, Engineering & Mathematics Endorsement
Program of Study: Programming and Software Development
South Grand Prairie Early College High School

Grade	Required CTE Courses	Recommended CTE/CORE Electives <i>* CTE courses meeting High School Graduation requirements</i>	Potential Certification Opportunities
9th	Principles of Information Technology (1 Credit) Computer Science I (1 Credit)	<ul style="list-style-type: none"> * AP Computer Science A * Financial Mathematics * Advanced Animal Science * Advanced Plant and Soil Science * Anatomy and Physiology 	<ul style="list-style-type: none"> • OSHA 10 General • Cyber Safety • Customer Service • Employability
10th	Computer Science II (1 Credit)	<ul style="list-style-type: none"> * Engineering Design and Problem Solving * Food Science 	<ul style="list-style-type: none"> • CompTIA IT Fundamentals+ • Certified Internet Webmaster • IC3
	*COSC 1301 Introduction to Computing	Art 1 Advanced Art Art 2 Painting / Drawing / Ceramics Art 3 Painting / Drawing / Ceramics Art 4 Painting / Drawing / Ceramics AP Art 2D / AP Art 3D / AP Studio Art Band 1 Symphonic Band / Jazz Band / Wind Ensemble Ballet Folklorico 1 / 2 / 3 / 4 Dance 1 / 2 / 3 / 4 / Partners Dance / JV Drill / Drill Choir / Women's / Show / Vocal Ensemble Beginning Mariachi / Advanced Mariachi Orchestra / Philharmonic / Concert / Chamber / Symphonic Theatre 1 / 2 / 3 / 4 / Tech Theatre 1 / 2 / 3 / 4	
11th	Computer Science III (1 Credit)		<ul style="list-style-type: none"> • WOW, IC3 • C-Tech-Broadband, Copper, Fiber Optic, Telph1 and Vo1P, Audio/Video Systems • Microsoft Technology Associate Introduction to Programming Using Python
12th	Practicum in Information Technology (2 Credits)		<ul style="list-style-type: none"> • CompTIA A+ Certification • Career Essentials: Computer Maintenance Tech • C-Tech BICSI Level 1 Network Technician
	*COSC 1436 Programming Fundamentals		
Career and Technical Student Organizations (CTSO)		CTE Dual Credit Offerings	
Business Professionals of America DECA TSA		SkillsUSA Robotics ESports	

WHERE WILL YOU GO NEXT?

COMPUTER SCIENCE PATHWAY

