

SD Program of Study

Programming and Software Development

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as postsecondary entrance requirements.

	GRADE	English	Math	Science	Social Studies/ Sciences	SD Required Electives	Career & Technical Education Courses	SAMPLE Career Options Relating to This Pathway
Personal Learning Plan (PLP) initiated for all students, career and academic advisement and appropriate assessments.								
SECONDARY	9	* English I (01001)	* Algebra I (02052)	* Physical Science (03159)	* World History-Overview (04051) * World Geography (04001)	* PE/Health * Fine Art Elective	Computer Applications (10004) Foundations of CTE (22150) Intro to Information Technology (10009)	<ul style="list-style-type: none"> ▶ Applications Analyst ▶ Applications Engineer ▶ Business Analyst ▶ Computer Engineer ▶ Data Modeler ▶ Game Developer ▶ Operating System Designer/Engineer ▶ Program Manager ▶ Programmer ▶ Programmer Analyst ▶ Project Lead ▶ Software Applications Specialist ▶ Software Applications Tester ▶ Software Design Engineer ▶ Systems Administrator ▶ Systems Analyst ▶ Test Engineer ▶ Tester
	10	*English/Literature II (01051) *Speech (01151)	* Geometry (02072)	* Biology (03051)		1 unit total - any combination of: * World Language or	Computer Programming (10152) and/or Visual Basic Programming (10153) and/or	
	11	*English/Comp III (01102) *American Literature (01054)	* Algebra II (02056)	* Chemistry (03101)	* American History-Comprehensive (04101)	* Capstone Service Learning or Approved Career & Technical Education	Web Programming (10161) and/or C++ Programming (10154) and/or Java Programming (10155) and or Database Programming (10053) and/or Entrepreneurship (12053)	
	12	* English IV (01004)	Calculus (02121) Trigonometry (02103)	Physics (03151) College Science Elective	* U.S. Government-Comprehensive (04151) * Psychology (04254)	* Personal Finance (22210) or *Economics (04201)	Information Systems Analysis & Design (10051) Capstone Experience	
POSTSECONDARY	Year 13	Written and Oral Communications	College Level Math	Natural Sciences	Social Studies/ Sciences	Computer Literacy		
	Year 14	Written Communications	Information Literacy			Wellness for Life Arts & Humanities		
	Year 15							
	Year 16							
CAREER CLUSTER CERTIFICATES	A+/CompTIA Certification Examination (A+ Essentials) C-Tech Home Professionals C-Tech Network Cabling Specialists C-Tech Voice Communication Professionals Cisco Certified Entry Networking Technician (CCENT™) Cisco Certified Network Associate (CCNA™)							
Orange Text - College Level - Dual Credit						* Classes available through Virtual School		