



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 college entrance requirements.

	GRADE	English	Math	Science	Social Studies/ Sciences	SD Required Electives	Career & Technical Education Courses	SAMPLE Career Options Relating to This Pathway		
Interest Inventory Administered and Plan of Study Initiated for all Students										
SECONDARY	9	* English I	* Algebra I	* Physical Science	* World History * Geography	* PE/Health * Fine Art Elective	Computer Applications Foundations of CTE Intro to Information Technology	<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 II	* Geometry	* Biology I		2 units total - any combination of: * World Language or	Computer Programming and/or Visual Basic Programming and/or			
	Academic/Career Advisement Provided - College Placement Assessments									
	11	* English III	* Algebra II	* Chemistry	* American History	* Computer Studies or Approved Career & Technical Education	Web Programming and/or C++ Programming and/or Java Programming and or Database Programming and/or Entrepreneurship			
	12	* English IV	Calculus Trigonometry	Physics College Science Elective	* U.S. Government * Psychology	* Personal Finance or * Economics	Information Systems Analysis & Design and/or Cabling *Capstone Experience			
The general course identified in this Program of Study are those required as part of S.D. Advanced Pathway to Graduation.										
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									

Blue Text - College Level - Dual Credit

Red Text - Courses can be articulated to Postsecondary Education

Underlined Text - Industry Certification Available

*** Classes available through Virtual School**
