Information and Technology: Programming and Software Development

Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Pathway Plan of Study (based on the Programming and Software Development Pathway of the Information Technology Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Programming and Software Development Pathway	SAMPLE Occupations Relating to This Pathway
		Interest Inventory Administered and Plan of Study Initiated for all Learners						► Applications Analyst
SECONDARY	9	English 9, 9B	Algebra 1, Geometry	Lab Physical Science	World History	Required: PE & Computer Concets Electives: Introduction to Business	Digital Media	► Applications Engineer ► Business Analyst ► Computer Engineer
	10	English 10, 10B Speech	Geometry, Tech Gemoetry, Algebra 2	Biology, Environmental Science	U.S. History	Required: PE & Health & Drivers Ed Electives: Introduction to Business, Business Law	Digial Media, WebPage I	► Data Modeler ► Game Developer ► Operating System Designer/ Engineer
	11	English 11, 11B	Algebra II, Math 11, College Algebra	Foundatin in Gov't		Required: P.E. & Consumer Ed Electives: Introduction to Business, Business Law	WebPage I, WebPage II, Computer Operations & Programming, Digital Media	► Program Manager ► Programmer ► Programmer Analyst
		College Placement Assessments-Academic/Career Advisement Provided						► Project Lead
	12	English 12, 12B				Required: P.E. Elective: Introduction to Business, Business Law	WebPage I, WebPage II, Computer Operations & Programming, Digital Media	► Software Applications Specialist ► Software Applications Tester ► Software Design Engineer ► Systems Administrator
		Articulation/Dual Credit Transcripted-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.						► Systems Analyst
POSTSECONDARY	Year 13	ENG101, ENG103 or ENG105, ENG110, SPH131	MTH120 or MTH160, MTH220			BUS170, PSY170 and SOC190	ATG110,BUS101,CIS102,CIS251,CIS254,PCT110, WEB101 CIS276,CIS277,CIS279,CIS180, CIS240 or CIS180,CIS181,CIS184, CIS276,CIS240 10 CIS elective credits	► Test Engineer ► Tester
	Year 14							
	Year 15							
	Year 16							