

Industry Sector: INFORMATION TECHNOLOGY

Pathway: AS Degree: Post-Secondary Studies: Emphasis in Computer Science



Level	Grade	English Language Arts	Math	Social Studies	Science	Career Technical Education Course	Other Required Courses or Recommended Electives		Sample Occupations relating to this pathway (Including SOC Code)	
SECO NDAR	9	English	Algebra I	Social Science	Science		Physical Education		Occupations requiring a high school diploma <ul style="list-style-type: none"> • Most all ROP concentrations • Book writer • Musician • Artist 	
	10	English	Math	World History	Science		Physical Education	Visual/Performing Arts or Foreign Language		
POSTSECONDARY	11	English		US History						
	12	English (Recommended)		Civics and American Government		Introduction to Programming				
(High School courses listed above are the Minimum State requirements)										
POSTSECONDARY	13	As Degree Suggested Course Sequence Years 1 & 2								Occupations requiring some post-secondary <ul style="list-style-type: none"> • Web Site Maintainer • QA Tester Occupations requiring a 2 year Degree <ul style="list-style-type: none"> • Computer Programmer • Database Specialist • Web Server programmer Occupations requiring a BA/BS Degree <ul style="list-style-type: none"> • Software Designer • Software Project Manager Industry recognized certifications, licenses, credentials or apprenticeships related to this pathway. <ul style="list-style-type: none"> • Oracle Certified Associate SE7 • Oracle Certified Professional SE7
		Fall Year 1		Spring Year 1		Fall Year 2		Spring Year 2		
	14	CCTPG9 Operating Systems – Windows – Unix/Linux (4)		CCTPG22 Programming Concepts & Methodology I (4)		CCTPG24 Programming Concepts & Methodology II (4)				
		Complete 7 units from: CHEM 2A/2AL General Chemistry I (5) or CHEM 2B/2BL General Chemistry II (5) or MATH2 Statistics (4) or Math 18A Calculus I (5) or Math 18B Calculus II (5) or PHYCS 5A Intro to Physics I (4) or PHYCS 5B Intro Physics II (4)		Complete 7 units from: CHEM 2A/2AL General Chemistry I (5) or CHEM 2B/2BL General Chemistry II (5) or MATH2 Statistics (4) or Math 18A Calculus I (5) or Math 18B Calculus II (5) or PHYCS 5A Intro to Physics I (4) or PHYCS 5B Intro Physics II (4)		Complete 7 units from: CHEM 2A/2AL General Chemistry I (5) or CHEM 2B/2BL General Chemistry II (5) or MATH2 Statistics (4) or Math 18A Calculus I (5) or Math 18B Calculus II (5) or PHYCS 5A Intro to Physics I (4) or PHYCS 5B Intro Physics II (4)		Complete 7 units from: CHEM 2A/2AL General Chemistry I (5) or CHEM 2B/2BL General Chemistry II (5) or MATH2 Statistics (4) or Math 18A Calculus I (5) or Math 18B Calculus II (5) or PHYCS 5A Intro to Physics I (4) or PHYCS 5B Intro Physics II (4)		
		GE (4)		GE (3)		GE (3)		GE (3)		
		GE (3)				Physical Education Activity Course (1)		Physical Education Activity Course (1)		
GE requirements – One each from the following areas: (A.1 or A.3, A.2, B.1 or B.2, Math 104, C.1 or C.2, one course from DO-D9, one course E, plus 1 Physical Education activity courses and one additional unit of activity.)										

Smith/Ellis 2016-2017