



Integrated Program of Study Course Grid
Information and Communication Technology Sector
*Software and Systems Development Pathway**



Grade	CTE/VAPA Courses	Social Science	English Language Arts	Math	Science Integrated	Misc. Required Courses	World Language	Early College Credit Options	College Courses	Work-Based Learning
8	Exploratory CTE	History	Language Arts	Math 8 or Algebra I (UC)	Physical Science	PE	World Language HS Credit (optional)	CCC: Information Technology Programs	Fall	Guest Speakers, Workplace Tours
									Spring	
									Summer	
9	Visual or Performing Art		English 9 or English 9 H (UC)	Algebra I or Geometry H (UC)	Biology (UC)	Health & PE-1	World Language (UC) (Required)	Cypress College: Computer Information Systems Programs	Fall	Guest Speakers, Workplace Tours
									Spring	
									Summer	
10	Intro to Computer Science (UC) Introductory CTE	World History or AP World History (UC)	English 10 or English 10 H (UC)	Geometry or Algebra II/Trig (UC)	Chemistry or Anatomy & Physiology (UC)	PE-2	World Language (UC) (Required)	FC: Computer Information Systems Programs	Fall	Guest Speakers, Workplace Tours
									Spring	
									Summer	
11	AP Comp Sci Principles (UC) Concentrator CTE	US History or AP US History (UC)	English 11 or AP English Language (UC)	Algebra II or Pre-Calculus (UC)	Physics or Anatomy & Physiology (UC)		World Language (UC) (Elective)	IVC: Computer Information Management Programs	Fall	Guest Speakers, Workplace Tours, Job Shadowing
									Spring	
									Summer	
12	AP Comp Sci A (UC) Capstone CTE	Government/ Economics or AP Govt/Econ (UC)	ERWC, Literature, or AP English Literature (UC)	Pre-Calculus, Finite, or AP Statistics or Calculus (UC)	AP Physics or AP Biology or AP Chemistry (UC)		AP World Language (UC) (Elective)	OCC: Computer Information Systems Programs	Fall	Guest Speakers, Workplace Tours, Job Shadowing, Internships
									Spring	
									Summer	

Potential Certifications, Certificates, Degrees	High School Industry Certifications		Community College Programs/Certificates		UC/CSU Degree Programs	
	Oracle Certified Associate		Computer Science		CSU Information Technology	
	CompTIA Network+		C++ Programming		CSU Computer Technology	
			Information Management and Technology		UC Computer Science or Computer Engineering	
Potential Employment/Salary (median salary in OC)	Help Desk Clerk - \$56K		Information Tech. Project Manager - \$80K		Computer and Information Research Scientist - \$129K	
	Data Warehousing Specialist - \$94K		Computer Programmer - \$94K		Computer and Information Systems Manager - \$161K	
	Video Game Designer - \$74K		Computer Systems Analyst - \$102K		Computer Network Architect - \$113K	