Indust	Industry Sector: Information & Communication Technologies (INF)							Pathway: Software & Systems Development-Systems Programming (174A)			
Torrance Unified School District (TUSD) Program of Study											
Site	Grade	English	Math	Social Studies	Science			d Courses or ed Electives	Career Technical Education Course	Occupations, Degrees, & Certificate Programs	
т	7	English 7	Math 7	Soc. St. 7	Science 7	Elective	PE			Occupations (High School Diploma)	
O R R A N C E U	8	English 8	Math 8	Soc. St. 8	Science 8		PE		PLTW Computer Science CSIM & AC	Military Communication Specialist     Occupations (Training/2-Yr Degree)     Computer User Support Specialist     Web Administrator     Cybersecurity Specialist/Auditor     IT Analyst Level 1     Occupations (4-Yr Degree/Higher)     Software Developer     Information Security Analyst     Computer Programmer     CIS Manager     Computer Systems Analyst     Computer Info Research Scientist     Info Technology Project     Managers     Fraud Examiner/Analyst	
	9	English 1	Algebra 1		Biology	World Lang	PE	Health/Comp Sci Discoveries			
	10	English 2	Geometry	*World History	Chemistry or Physics	World Lang	PE				
	11	English 3 or AP Comp	Algebra 2	*US History	(See CTE)	World Lang		Fine Arts	AP CSP		
N I F	12	*English 4 or AP Lit	Math Elective	Gov/Econ					Cybersecurity		
I E D	UC CSU	4 Yrs Req	3 Yrs Req 4 Yrs Rec	2 Yrs Req	2 Yrs Req 3 Yrs Rec	2 Yrs Req 3Yrs Rec		1 Yr Fine Arts Req 1 Yr Elective Req	CTE is not req for UC/CSU/TUSD		
	TUSD	4 Yrs Req	2 Yrs Req	2 Yrs Req & Econ/Gov	2 Yrs Req	1 Yr Lang or Fine Art Req	2 Yrs Req	1 Sem Health Req	These CTE courses meet the 3rdYr Science & Elective Req.		
	* Indicates a course that has the option of earning high school credit AND college credit through El Camino (see your high school counselor for details on dual enrollment & articulation)									Military Officer	
	General Education Requirements for ECC Majors						ECC Computer Info Systems AS Degree Requirements Degree Programs				
E		Required Categories for ECC AS Degree Natural Sciences (3 units)					AS Degree in CIS Required 9 Units CIS 13, 119, and 26 or 28 Required 17-20 w/in ONE of the following areas: Help Desk: Business 27,  Computer Science Certificate of Completion Required Courses Comp Sci 1, 2  Required 3 Courses From: Comp Sci 3, 12, 16, 30, 40 Math 210			Computer Information Systems     Computer Science/Programming     Information Technology     Computer Software Technology	
L		Social and Behavioral Sciences (3 units)							Required Courses		
C		Humanities (3 units) Language and Rationality (6 units)							Comp Sci 1, 2	Informatics	
A M		One course from each section: A & B								Computer/Software Engineer	
1	Health & PE (3 units)  • Exemption Options: Pass the Contemporary Health Waiver Exam or obtain					cam or obtain				Industry Certifications/Licenses Offered through Precision Exams	
N O	approval for the Petition for Military Service Credit.				60A, 60B; CIS 2, 11, 40 <u>Database:</u> CIS 18, 28, 29,		Exploring Computer Science				
	Mathematics  Option 1: Pass the Math Competency Test						Required: minimum grade of C or better in each course	Computer Science Principles			
C	15	<ul> <li>Option 2: Pass one approved Math class with a C or better</li> <li>Electives</li> <li>Additional units needed to total 60 units</li> <li>Courses cannot double count in multiple categories</li> </ul>					Networking: CIS 40, 137,			Offered through El Camino	
L								41, 142, 143 <u>mming:</u> CIS 16, 18,	Please Note: computer science courses are designed	<ul><li>Cisco Network Admin</li><li>Cloud Computing w/ Amazon</li></ul>	
E							80, 13	3, 134	primarily for students to	Computer Systems Apps	
G E							Mobile/Web Programming: CIS 84, 132, 133, 134, 136 Cybersecurity: Admin of		transfer to a 4-year institution.	<ul><li>Computer User Support Specialist</li><li>Cybersecurity</li></ul>	
_									Database Management		
								e 142; CIS 119, 120, 22, 137			
Please note, additional courses are needed to meet the <u>UC/CSU Transfer Requirements</u> . See your ECC counselor for details.									for details.		