

Santa Clara University
Sample Four-Year Plan w/ Co-Op: B.S. in Computer Engineering

	Fall	Winter	Spring
Freshman Year	MATH 11 - Calculus I	MATH 12 - Calculus II	MATH 13 - Calculus III
	CHEM 11 – Chemistry I	PHYS 31 - Physics I	PHYS 32 - Physics II
	University Core	University Core	University Core
	ENGL 1 - English I	University Core	ENGL 2 - English II
	ENGR 1 - Introduction to Engineering (1 unit)		

Sophomore Year	MATH 21 - Calculus IV	AMTH 106 - Differential Equations	MATH 53 - Linear Algebra
	PHYS 33 - Physics III	AMTH 108 - Probability and Statistics	ELEN 50 - AC/DC Circuits
	COEN 21 - Logic Design	COEN 19 - Discrete Math	COEN 20 - Embedded Systems
	University Core	COEN 11 - Advanced Programming	COEN 12 - Data Structures

Junior Year	ELEN 115 - Electronics	ELEN 153 - Digital IC Design	Industry Co-Op: 6 months (Spring and Summer)
	COEN 177 - Operating Systems	COEN 146 - Networks	
	COEN 174 - Software Engineering	COEN 70 - Advanced Data Structures	
	University Core	Computer Engineering Elective	

Senior Year	COEN 194 - Senior Design I	COEN 195 - Senior Design II	COEN 196 - Senior Design III
	ENGL 182 – Engineering Communications	COEN 175 - Compilers	COEN 122 - Computer Architecture
	Computer Engineering Elective	Computer Engineering Elective	COEN 179 - Algorithms
	University Core	University Core	Free Elective

Students without previous programming experience should take COEN 10 (Introduction to Programming) in fall of their sophomore year instead of a University Core class.