

**Santa Clara University**  
**Sample Four-Year Plan w/ Study Abroad: 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	COEN 11 - Advanced Programming	COEN 12 - Data Structures
	ENGL 1 - English I	COEN 19 - Discrete Math	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 70 - Advanced Data Structures	COEN 20 - Embedded Systems
	University Core	University Core	University Core

Junior Year	Study Abroad: 8 units minimum	ELEN 115 - Electronics	ENGL 182 – Engineering Communications
		COEN 146 - Networks	COEN 179 - Algorithms
		Computer Engineering Elective	Computer Engineering Elective
		University Core	University Core

Senior Year	COEN 194 - Senior Design I	COEN 195 - Senior Design II	COEN 196 - Senior Design III
	COEN 177 - Operating Systems	COEN 175 - Compilers	COEN 122 - Computer Architecture
	COEN 174 - Software Engineering	ELEN 153 - Digital IC Design	University Core
	Computer Engineering Elective	University Core	Free Elective

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