

Sophomore-Start 4-Year Course Plan with Study Abroad for Computer Science & Engineering under Core 2009

Freshman	Fall	Winter	Spring
	University Core (Critical Thinking & Writing 1)	University Core (Critical Thinking & Writing 2)	University Core
	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 (Cultures & Ideas 1)	University Core (Cultures & Ideas 2)	University Core (Religion, Theology & Culture 1)
ENGR 1 - Introduction to Engineering (1 unit)			

Sophomore	Fall	Winter	Spring
	COEN 10 - Introduction to Programming ¹	COEN 11 - Advanced Programming	COEN 12 - Data Structures
	MATH 14 - Calculus IV	AMTH 106 - Differential Equations	MATH 53 - Linear Algebra
	PHYS 33 - Physics III	AMTH 108 - Probability and Statistics	COEN 19 - Discrete Math
COEN 21 - Logic Design	ELEN 50 - Electric Circuits	COEN 20 - Embedded Systems	

Junior	Fall	Winter	Spring
	Study Abroad (8 units minimum)	COEN 70 - Advanced Data Structures	University Core
		ELEN 115 - Electronic Circuits	ELEN 153 - Digital IC Design
		COEN 146 - Networks	COEN 179 - Algorithms
Computer Engineering Elective		Computer Engineering Elective	

Senior	Fall	Winter	Spring
	University Core	University Core	University Core
	COEN 177 - Operating Systems	Computer Engineering Elective	Free Elective
	COEN 174 - Software Engineering	COEN 175 - Compilers	COEN 122 - Computer Architecture
	COEN 194 - Senior Design I (2 units)	COEN 195 - Senior Design II (2 units)	COEN 196 - Senior Design III (2 units)
ENGL 181 - Technical Writing I (2 units)		ENGL 182 - Technical Writing II (1 unit)	

Humanities & Social Science
 Math & Science
 Engineering
 Other

¹Students with previous programming experience, as determined by advanced placement credit or the department's programming diagnostic exam, may replace COEN 10 with a free elective. Such students should take a University Core course instead of COEN 10 in their sophomore year.