

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

	Fall	Winter	Spring
Freshman	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)		

	Fall	Winter	Spring
Sophomore	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

	Fall	Winter	Spring
Junior	University Core	COEN 70 - Advanced Data Structures	University Core
	Free Elective	ELEN 115 - Electronic Circuits	ELEN 153 - Digital IC Design
	COEN 177 - Operating Systems	COEN 146 - Networks	COEN 179 - Algorithms
	Computer Engineering Elective	Computer Engineering Elective	Computer Engineering Elective

	Fall	Winter	Spring
Senior	University Core	University Core	Educational Enrichment Elective
	Educational Enrichment Elective	Educational Enrichment Elective	Educational Enrichment 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.