4-Year Course Plan with Study Abroad for Computer Science & Engineering under Core 2009 (For Students Beginning Fall 2012)

	Fall	Winter	Spring
	University Core (Critical Thinking & Writing 1)	University Core (Critical Thinking & Writing 2)	COEN 19 - Discrete Math
nan	MATH 11 - Calculus I	MATH 12 - Calculus II	MATH 13 - Calculus III
Freshman	CHEM 11 - Chemistry I	PHYS 31 - Physics I	PHYS 32 - Physics II
ш	COEN 10 - Introduction to Programming ¹	COEN 11 - Advanced Programming	COEN 12 - Data Structures
	ENGR 1 - Introduction to Engineering (2 units)		

	Fall	Winter	Spring
ىۋ	University Core (Cultures & Ideas 1)	University Core (Cultures & Ideas 2)	University Core (Religion, Theology & Culture 1)
Sophomore	MATH 14 - Calculus IV	AMTH 106 - Differential Equations	MATH 53 - Linear Algebra
	PHYS 33 - Physics III	AMTH 108 - Probability and Statistics	ELEN 50 - Electric Circuits
	COEN 21 - Logic Design	COEN 70 - Advanced Data Structures	COEN 20 – Embedded Systems

Junior	Fall	Winter	Spring		
	Study Abroad (8 units minimum)	University Core	University Core		
		COEN 171 - Programming Languages	ELEN 153 - Digital IC Design		
		COEN 146 – Networks	COEN 179 - Algorithms		
		Computer Engineering Elective	Computer Engineering Elective		

	Fall	Winter	Spring
	University Core	University Core	University Core
or	COEN 177 - Operating Systems	Computer Engineering Elective	Free Elective
Senior	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 - Applied Engr. Communications I (2 units)	ENGL 182A - Applied Engr. Communications IIA (1 unit)	ENGL 182B - Applied Engr. Communications IIB (1 unit)

Ī	Humanities & Social Science	Math & Science	Fnaineerina	Other
L	Humanities & Social Science	Math & Science	Linginicaling	Other

'Students 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 freshman year.

Last Updated: March 24, 2014