

Computer Engineering Curriculum					
First Year see Common First-Year Curriculum in Engineering*					
Third Semester		Credits	Fourth Semester		Credits
ES 250	Electrical Science	3	EE 211	ECE Lab I	3
ES 262	Intro to Digital Design	3	EE 221	Linear Circuits	3
ES 264	Intro to Object Oriented Programming and Software Design	3	EE 260	Embedded Systems	3
MA 232	Differential Equations	3		KA/UC Elective (EC)	3
	KA/ UC Elective	3	MA 231	Calculus III	3
Total		15	Total		15
Fifth Semester		Credits	Sixth Semester		Credits
EE 321	Systems and Signal Processing	3	EE 316	Computer Engineering Junior Lab	3
EE 341	Microelectronics	3	EE 466	Computer Architecture	3
EE 363	Software Components and Generic Programming	3	MA 211	Foundations	3
EE 365	Advanced Digital Circuit Design	3		ES or Science Elective	3
STAT 383	Probability and Statistics	3	EE361	Fundamentals of Software Engineering	3
Total		15	Total		15
Seventh Semester		Credits	Eighth Semester		Credits
EE 416	Computer Engineering Senior Lab	3		Professional Electives ³	6
EE 462	Software Systems Architecture	3		KA/ UC Elective ¹	3
EE 464	Digital Systems Design	3		Free Electives ⁴	6
ES 499	Professional Experience	0			
	CS Elective ²	3			
	KA/ UC Elective ¹	3			
Total		15	Total		15

*Computer Engineering students should select CS 141 from the available list of Second Semester Science/CS elective courses numbered CM 132/ BY 160/ CS 141.

¹There are a total of five courses which must be taken to cover at least four knowledge areas. At least one of these courses must be a University Course. University courses are interdisciplinary courses that cover two or more knowledge areas. One of the knowledge area electives must be an economics course, EC 350 is recommended, and one must be ES 110.

²The Computer Science Elective must be selected from computer science courses numbered 300 or higher or CS 242.

³The Professional Electives are ECE courses numbers 300 or higher, or other engineering course if approved by the ECE Department.