

BS in Computer Engineering 4-Year Sample Plan (120 Units)

YEAR 1			
Semester 1	Unit	Semester 2	Unit
Engr 10, Introduction to Engineering	3	CmpE 30, Programming Concepts & Methodology	3
Math 30, Calculus I	3	Math 31, Calculus II	4
Math 42, Discrete Mathematics	3	Physics 50, Mechanics	4
Communications (GE Area A1)	3	English 1B, Composition II (GE Area C2)	3
English 1A, Composition (GE Area A2)	3		
Total	15	Total	14

YEAR 2			
Semester 3	Unit	Semester 4	Unit
Math 32, Calculus III	3	Math 123 Differential Equations & Linear Algebra	3
Phys 51, Electricity and Magnetism	4	EE 97, Intro Electrical Engineering Laboratory	1
CmpE 50, Object-Oriented Concepts & Methodology	3	EE 98, Introduction to Circuit Analysis	3
American Studies 1A (GE Areas C1, D2)	6	CmpE 126, Algorithms & Data Structure Design	3
		American Studies 1B (GE Areas C2, D3)	6
Total	16	Total	16

YEAR 3			
Semester 5	Unit	Semester 6	Unit
ISE 130, Engineering Probability and Statistics	3	CmpE 125, Digital Design II	3
CmpE 102, Assembly Language Programming	3	CmpE 127, Microprocessor Design	3
CmpE 110, Electronics for Computing Systems	3	CmpE 130, Advanced Algorithm Design	3
CmpE 124, Digital Design I	3	CmpE 131, Software Engineering I	3
Engr 100W, Engineering Report (Areas R, Z)	3	CMPE 142, Operating Systems Design	3
Total	15	Total	15

YEAR 4			
Semester 7	Unit	Semester 8	Unit
Biol 10, The Living World	3	CmpE 146, Real-Time Embedded System Co-Design	3
CmpE 140, Computer Architecture and Design	3	Technical Electives	3
CmpE 148, Computer Network	3	Technical Electives	3
CmpE 152, Compiler Design	3	Technical Electives	1
CmpE 195A, Senior Design Project I	2	CmpE 195B, Senior Design Project II	3
Engr 195A (GE Areas S, V)	1	Engr 195B (GE Areas S, V)	1
Total	15	Total	14

OVERALL 120