

Computer Engineering – Electronic Systems - FRESHMEN

Year 1 Fall Semester			
Year 1 Fall Semester	Credits	Year 1 Spring Semester	Credits
CMSC 201 Computer Science I	4	CMSC 202 Computer Science II	4
PHYS 121 Physics I	4	MATH 152 Calculus and Analytic Geometry II	4
MATH 151 Calculus and Analytic Geometry I	4	CMPE 212 Prin. Of Digital Design	4
ENGL 100 Composition	3	ENES 101 Introduction to Engineering	3
Total	15	Total	15
Benchmark Requirements - TBD		Benchmark Requirements TBD	
University Requirements: ENGL 100 or equivalent and a credit-bearing math course to be completed within the first year of academic study.			
Year 2 Fall Semester			
Year 2 Fall Semester	Credits	Year 2 Spring Semester	Credits
AH GEP	3	CMPE 306 Basic Circuit Theory (Lab)	4
AH GEP	3	MATH 225 Intro. to Differential Equations	3
MATH 251 Multivariable Calculus	4	CMPE 310 Systems Design and Prog.	4
PHYS 122 Physics II	4	CMSC 341 Data Structures	3
CMSC 203 Discrete Structures	3	Total	14
Total	17	Total	14
Benchmark Requirements – TBD		Benchmark Requirements - None	
Year 3 Fall Semester			
Year 3 Fall Semester	Credits	Year 3 Spring Semester	Credits
AH GEP	3	CMPE 320 Prob. & Random Processes	3
Science Elective (Major)	4	CMSC 421 Operating Systems	3
CMPE 314 Electronic Circuits	4	CMPE 415 FPGA Arch. & Applications	3
CMPE 311 C Prog. & Embedded Systems	3	CMPE 349 Intro. to Prof. Practice, WI	2
MATH 221 Linear Algebra	3	SS GEP	3
Total	17	PHED	1.5
Benchmark Requirements - None		Total	15.5
		Benchmark Requirements -None	
Year 4 Fall Semester			
Year 4 Fall Semester	Credits	Year 4 Spring Semester	Credits
CMPE 315 Prin. Of VLSI	4	CMPE 451 Capstone II	2
CMSC 411 Computer Architecture	3	CMPE Elective List A/B	3
CMPE 450 Capstone I	2	CMPE Elective List A	3
CMPE Elective List A	3	Language 201 GEP	4
SS GEP	3	Culture GEP	3
SS GEP	3	PHED	1.5
Total	18	Total	16.5
Benchmark Requirements – TBD		Total credits (including PHED)	128

