COMPUTER ENGINEERING

Courses highlightedbelow are available at North Greenville University Curriculum Example*

FRESHMAN YEAR					
4 CH 1010 General Chemistry	3 ENGR 1410 Programming and Problem Solving ^{1,2}				
3 ENGL 1030 Accelerated Composition	4 MATH 1080 Calculus of One Variable II ²				
2 ENGR 1020 Engineering Discipline and Skills ¹	3 PHYS 1220 Physics with Calculus I ²				
4 MATH 1060 Calculus of One Variable I ²	6 Gen Ed ³				
3 Gen Ed ³	16				
16					
SOPHOMORE YEAR					
3 CPSC 1110 Introduction to Programming in C ²	1 ECE 2120 Electrical Engineering Lab. II ²				
2 ECE 2010 Logic and Computing Devices ²	3 ECE 2220 Systems Programming Concepts for				
3 ECE 2020 Electric Circuit I ²	Computer Engineering ²				
1 ECE 2090 Logic and Computing Devices Lab.	3 ECE 2620 Electrical Circuits II ²				
1 ECE 2110 Electrical Engineering Lab. I ²	3 ECE 2720 Computer Organization ²				
4 MATH 2060 Calculus of Several Variables ²	1 ECE 2730 Computer Organization Laboratory				
3 PHYS 2210 Physics with Calculus II ²	4 MATH 2080 Int. to Ordinary Differential Eqtns ²				
17	15				
JUNIOR YEAR					
3 ECE 2230 Computer Systems Engineering ²	3 ECE 3170 Random Signal Analysis ²				
1 ECE 3110 Electrical Engineering Lab. III ²	3 ECE (CPSC) 3220 Intro. to Operating Systems ²				
3 ECE 3200 Electronics I ²	3 ECE 3270 Digital Computer Design ²				
3 ECE 3300 Signals, Systems, and Transforms ²	3 ECE (CPSC) 3520 Programming Systems ²				
3 ECE 3710 Microcontroller Interfacing ²	3 MATH 4190 Discrete Math. Structures I				
1 ECE 3720 Microcontroller Interfacing Lab.	15				
3 MATH 3110 Linear Algebra ²					
17					
SENIOR YEAR					
3 COMM 1500 Intro. to Human Comm. OR	2 ECE 4960 Integrated System Design II				
3 COMM 2500 Public Speaking	3 Gen Ed ³				
3 ECE 4090 Intro. to Linear Control Systems ²	6 Computer Engr. Technical Requirement ⁴				
2 ECE 4950 Integrated System Design I ²					
3 ENGL 3140 Technical Writing	3 Special Requirement ⁵				
6 Computer Engr. Technical Requirement ⁴	14				
17					

All Clemson engineering students begin in our General Engineering program and move into their specified major once the 127 Total Semester Hours Footnotes: departmental standards are completed. Clemson courses ENGL 1030, MATH 1060 and 1080, PHYS 1220, CH 1010, ENGR 1020

and ENGR 1410/or CHE 1300 must all be completed with a "C" or higher before declaring and starting courses in your engineering major.

^{*}See catalog for current curriculum at catalog.clemson.edu

General Education Requirements							
LIT	Non-Lit	SS1	SS2		CCA	STS	
			Other				
LIFE	Palmetto Fellows	Honors	Athlete	RiSE	ROTC	Med School	

Comments:

 $^{^{1}}$ ENGR 1070, ENGR 1080 and ENGR 1090 may be substituted for ENGR 1410; ENGR 1050 and ENGR 1060 may be substituted for ENGR 1020

² This course must be passed with a grade of C or better either to transfer into Computer Engineering from General Engineering or to satisfy later course prerequisites.

³ See General Education section. Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society

⁴ Twelve credits selected from BIOE 3700*, BIOE 4310*, BIOE 4350*, BIOE 4710*, ECE 3210*, ECE 4050+, ECE 4160*, ECE 4270, ECE 4300, ECE 4310, ECE 4380, ECE 4400, ECE 4420, ECE 4490, ECE 4550, ECE 4590*, ECE 4600, ECE 4670, ECE 4680, ECE 4730, ECE 4910+, ECE 4920+, ECE 4930+ and ECE 4990+. Three credits of this requirement must include ECE 4270, ECE 4300, or ECE 4400. A maximum of six credits of courses marked with an asterisk and a maximum of three credits of courses marked with a plus may be used to satisfy this requirement.

⁵ Three additional credits of university or college approved Arts and Humanities or Social Science courses; or ELE 3010 or ELE 4010; or any additional three-credit, 4000-level course from footnote 4 above; or any course selected from the following: ECE 4040, ECE 4060, ECE 4180, ECE 4190, ECE 4200, ECE 4220, ECE 4320, ECE 4360, ECE 4370, ECE 4460, ECE 4570, ECE 4610, or ME 3100; or one additional course selected from MATH 4120, MATH 4340, MATH 4350, MATH 4400, MATH 4410 or MATH 4530.