COMPUTER ENGINEERING

Courses highlighted below are available at University of North Georgia

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 Computer Engineering[2]
_____ 3 ECE 2020 Electric Circuit I[2]	_____ 3 ECE 2620 Electrical Circuits II[2]
_____ 1 ECE 2090 Logic and Computing Devices Lab.	_____ 3 ECE 2720 Computer Organization[2]
_____ 1 ECE 2110 Electrical Engineering Lab. I[2]	_____ 1 ECE 2730 Computer Organization Laboratory
_____ 4 MATH 2060 Calculus of Several Variables[2]	_____ 4 MATH 2080 Int. to Ordinary Differential Eqtns[2]
_____ 3 PHYS 2210 Physics with Calculus II[2]	15
17	

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_ 3 COMM 2500 Public Speaking	_____ 2 ECE 4960 Integrated System Design II
_____ 3 ECE 4090 Intro. to Linear Control Systems[2]	_____ 3 Gen Ed[3] _____
_____ 2 ECE 4950 Integrated System Design I[2]	_____ 6 Computer Engr. Technical Requirement[4] _____
_____ 3 ENGL 3140 Technical Writing	_____ 3 Special Requirement[5] _____
_____ 6 Computer Engr. Technical Requirement[4] _____	14
17	

127 Total Semester Hours

Footnotes:

All Clemson engineering students begin in our General Engineering program and move into their specified major once the 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.

[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 Requirements.

[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.

*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: