ELECTRICAL ENGINEERING

2020 – 2021 Curriculum (updated May 2020)

Student: _____
Date: _____
CUID: _____
Advisor: _____

FRESHMAN YEAR

_____ 4 CH 1010 General Chemistry
_____ 3 ENGL 1030 Composition and Rhetoric
_____ 2 ENGR 1020 Engineering Disciplines and Skills
_____ 4 MATH 1060 Calculus of One Variable I
_____ 3 Gen Ed_____
16

_____ 4 CH 1020 General Chemistry
_____ 3 ENGR 1410 Programming and Problem Solving
_____ 4 MATH 1080 Calculus of One Variable II
_____ 3 PHYS 1220 Physics with Calculus I
_____ 3 Gen Ed_____
17

SOPHOMORE YEAR

_____ 3 CPSC 1110 Introduction to Programming in C
_____ 3 ECE 2010 Logic and Computing Devices
_____ 3 ECE 2020 Electric Circuit I
_____ 1 ECE 2090 Logic and Computing Devices Lab.
_____ 1 ECE 2110 Electrical Engineering Lab. I
_____ 4 MATH 2060 Calculus of Several Variables
_____ 3 PHYS 2210 Physics with Calculus II
18

_____ 1 ECE 2120 Electrical Engineering Lab. II
_____ 3 ECE 2620 Electrical Circuits II
_____ 3 ECE 2720 Computer Organization
_____ 1 ECE 2730 Computer Organization Laboratory
_____ 4 MATH 2080 Int. to Ordinary Differential Equations
_____ 3 Gen Ed _____
15

JUNIOR YEAR

_____ 1 ECE 3110 Electrical Engineering Lab. III
_____ 3 ECE 3200 Electronics I
_____ 3 ECE 3300 Signals, Systems, and Transforms
_____ 3 ECE 3600 Electric Power Engineering
_____ 3 ECE 3800 Electromagnetics
_____ 3 Advanced Mathematics Requirement _____
16

_____ 1 ECE 3120 Electrical Engineering Lab. IV
_____ 3 ECE 3170 Random Signal Analysis
_____ 3 ECE 3210 Electronics II
_____ 3 ECE 3710 Microcontroller Interfacing
_____ 1 ECE 3720 Microcontroller Interfacing Lab.
_____ 3 ECE 3810 Field, Waves, and Circuits
_____ 3 ENGL 3140 Technical Writing
17

SENIOR YEAR

_____ 3 COMM 1500 Intro. to Human Comm. *OR*
3 COMM 2500 Public Speaking
_____ 3 ECE 4090 Intro. to Linear Control Systems
_____ 3 ECE 4270 Communications Systems
_____ 2 ECE 4950 Integrated System Design I
_____ 3 Electrical Engr. Technical Requirement _____
14

_____ 2 ECE 4960 Integrated System Design II
_____ 3 Gen Ed _____
_____ 3 Electrical Engr. Technical Requirement _____
_____ 3 Electrical Engr. Technical Requirement _____
_____ 3 Special Requirement _____
14

127 Total Semester Hours

General Education Requirements						
LIT	Non-Lit	SS1	SS2	ENGR 5th	CCA	STS

Comments: _____

Change of Major Checklist	
Required	Completed
CH 1010	
ENGL 1030	
ENGR 1020	
ENGR 1410	
MATH 1060	
PHYS 1220	
GPA = 2.0; C or better required in each class	

Students should always refer to the Academic Catalog for course descriptions and for course pre-requisites, corequisites, and concurrent enrollment requirements. Academic Catalog can be found here: https://www.clemson.edu/registrar/academic-catalogs/