

Electrical Engineering Checksheet

Name: _____
 Student ID#: _____

Common First Year (CFY)	Term(s)	Course #	Course Title	Hrs	Attempts		Prerequisites
					1	2	
Fall		ENGR 1300	Exploring Engineering and Technology w/Success*	2		Only 2 attempts allowed	
		ENGR 1301	Foundations of Math & Science for Engineering*	3		Only 2 attempts allowed	
		MATH 1241	Calculus I*	3		Only 2 attempts allowed	Math Placement Level 4/MATH 1103
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512) End Amer Demo 1575)	3		Only 2 attempts allowed	https://age.charlotte.edu/charlotte-core/general-education-curriculum/
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512) End Amer Demo 1575)	3		Only 2 attempts allowed	https://age.charlotte.edu/charlotte-core/general-education-curriculum/
		Total:			14		
Spring		ENGR 1302	Logic and Computational Problem Solving*	3		Only 2 attempts allowed	
		ENGR 1303	Engr Visual & Graphical Communication*	3		Only 2 attempts allowed	
		MATH 1242	Calculus II*	3		Only 2 attempts allowed	MATH 1241
		PHYS 2101	Physics I*	3		Only 2 attempts allowed	MATH 1241, PHYS 2101L
		PHYS 2101L	Physics I Lab*	1		Only 2 attempts allowed	PHYS 2101
		WRDS 1103/1104	Writing & Inquiry in Academic Contexts*	3		Only 2 attempts allowed	Note: WRDS 1104 is 4 credit hours
	Total:			16			

Second Year	Term(s)	Course #	Course Title	Hrs	Attempts		Prerequisites
					1	2	
Fall		ECGR 2111	Network Theory I*	3		Only 2 attempts allowed	MATH 2171
		ECGR 2181	Logic System Design*	3		Only 2 attempts allowed	ENGR 1302, ECGR 2103, or ITSC 1212 w/grade of C or higher
		ECGR 2181L	Logic System Design Lab	1		Only 2 attempts allowed	ECGR 2181
		MATH 2171	Differential Equations*	3		Only 2 attempts allowed	MATH 1242 w/grade of C or higher
		PHYS 2102	Physics II	3		Only 2 attempts allowed	MATH 1242, PHYS 2101 w/grade of C or higher
		MATH 2164	Matrices and Linear Algebra	3		Only 2 attempts allowed	MATH 1241 w/grade of C or higher
	Total:			16			
Spring		ECGR 2112	Network Theory II*	3		Only 2 attempts allowed	ECGR 2111, MATH 2171, PHYS 2102 w/grade of C or higher <i>ECGR 2254</i>
		ECGR 2112L	Network Theory II Lab	1		Only 2 attempts allowed	ECGR 2112
		ECGR 2254	Analytical Foundations of EEGR & CPGR*	3		Only 2 attempts allowed	MATH 2171 & MATH 2164 w/grade of C or higher
		MATH 2241	Calculus III*	3		Only 2 attempts allowed	MATH 1242 w/grade of C or higher
		ECGR 2105	Computer Programming*	3		Only 2 attempts allowed	ENGR 1302, ECGR 2103, or ITSC 1212 w/grade of C or higher
		CTCM 2530	Critical Thinking and Comm	3		Only 2 attempts allowed	WRDS 1103 or 1104 & Sophomore Standing
	Total:			16			

Third Year	Term(s)	Course #	Course Title	Hrs	Attempts		Prerequisites
					1	2	
Fall		ECGR 3111	Signals and Systems*	3		Only 2 attempts allowed	ECGR 2112 & ECGR 2254 w/grade of C or higher
		ECGR 3120	Electromagnetic Fields & Waves	3		Only 2 attempts allowed	ECGR 2112 & MATH 2241 w/grade of C or higher
		ECGR 3130	Fundamentals of Electronics & Semiconductors*	3		Only 2 attempts allowed	ECGR 2112 w/grade of C or higher
		ECGR 3130L	Electronics Lab	1		Only 2 attempts allowed	ECGR 3130
		STAT 3128	Probability & Statistics for Engineers	3		Only 2 attempts allowed	MATH 2241 w/grade of C or higher
		ENGR 3295	Professional Development	1		Only 2 attempts allowed	Junior Standing
	Total:			14			
Spring		ECGR 3157	ECE Junior Design*	3		Only 2 attempts allowed	ECGR 3111 and ECGR 3130 or ECGR 3131
		ECGR 3142	Electrical Energy Conversion	3		Only 2 attempts allowed	ECGR 3120 or ECGR 3121 w/ grade of C or higher
		ECGR 3142L	Electrical Energy Conversion Lab	1		Only 2 attempts allowed	ECGR 3142
		ECGR 3112	System Analysis II	3		Only 2 attempts allowed	ECGR 3111 w/grade of C or higher
		PHYS 3141	Introduction to Modern Physics	3		Only 2 attempts allowed	PHYS 2101 and MATH 1241 w/grade of C or higher <i>MATH 1242</i>
		XXXX XXXX	Other Technical Elective (OTE)	3		Only 2 attempts allowed	See Degree Works for options
	Total:			16			

Fourth Year	Term(s)	Course #	Course Title	Hrs	Attempts		Prerequisites
					1	2	
Fall		ECGR 4241	Electrical Engineering Senior Design I	2		Only 2 attempts allowed	ECGR 3111, ECGR 3157 & ECGR 3120 or ECGR 3121, & ECGR 3130 or ECGR 3131 all w/grade of C or higher
		ECGR 4XXX	Technical Elective	3		Only 2 attempts allowed	
		ECGR 4XXX	Technical Elective	3		Only 2 attempts allowed	
		ECGR 4XXX	Technical Elective	3		Only 2 attempts allowed	
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512) End Amer Demo 1575)	3		Only 2 attempts allowed	
		Total:			14		
Spring		ECGR 4242	Electrical Engineering Senior Design II	2		Only 2 attempts allowed	ECGR 4241 w/grade of C or higher
		XXXX XXXX	Other Technical Elective (OTE)	3		Only 2 attempts allowed	See Degree Works for options
		ECGR 4XXX	Technical Elective	3		Only 2 attempts allowed	
		ECGR 4XXX	Technical Elective	3		Only 2 attempts allowed	Junior Standing
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512) End Amer Demo 1575)	3		Only 2 attempts allowed	https://age.charlotte.edu/charlotte-core/general-education-curriculum/
		Total:			14		

* = grade of C or better is required for degree progression
 Courses in *italics* can be taken as a pre or co-requisite
 Course in **bold** must be taken as a co-requisite