

Computer Engineering Checksheet

The Academic Plan of Study is a guide. Always confer with your Academic Advisor for your semester course plans

	Term(s)	Course #	Course Title	Hrs			Prerequisites	
Common First Year (CFY)	Fall	ENGR 13xx	Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)*	2-3		Only 2 attempts allowed		
		ENGR 13xx	Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)*	2-3		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 Find Amer Demo 1575)	3		Only 2 attempts allowed	https://ge.charlotte.edu/charlotte-core-general-education-curriculum/	
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512 Find Amer Demo 1575)	3			https://ge.charlotte.edu/charlotte-core-general-education-curriculum/	
		Total: 14-15						
Common First Year (CFY)	Spring	ENGR 13xx	Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)*	2-3		Only 2 attempts allowed		
		ENGR 13xx	Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)*	2-3		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			Note: WRDS 1104 is 4 credit hours	
Total: 15-16								
Second Year	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							
	Second Year	Spring	ECGR 2112	Network Theory II*	3		Only 2 attempts allowed	ECGR 2111, MATH 2171, PHYS 2102 w/grade of C or higher ECGR 2254
			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 2165	Introduction to Discrete Structures	3		Only 2 attempts allowed	ENGR 1302, ECGR 2103, or ITSC 1212 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	Fall	ECGR 3111	Signals and Systems*	3		Only 2 attempts allowed	ECGR 2112 & ECGR 2254 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	
		ECGR 3180	Data Structures & Algorithms in C++	3		Only 2 attempts allowed	ECGR 2104 or ECGR 2105 w/grade of C or higher	
		ECGR 3101	Embedded Systems*	3		Only 2 attempts allowed	ECGR 2181 and ECGR 2104 or ECGR 2105	
		ECGR 3101L	Embedded Systems Lab	1		Only 2 attempts allowed	ECGR 3101	
	ENGR 3295	Professional Development	1		Only 2 attempts allowed	Junior Standing		
	Total: 15							
	Third Year	Spring	ECGR 3157	ECE Junior Design*	3		Only 2 attempts allowed	ECGR 3111 and ECGR 3130 or ECGR 3131
			ECGR 3123	Data Communications & Networking	3		Only 2 attempts allowed	ECGR 2111 and ECGR 2181
			ECGR 3183	Computer Organization	3		Only 2 attempts allowed	ECGR 2181 and ECGR 2104 or ECGR 2105
			STAT 2122 or STAT 3128	Introduction to Probability & Statistics or Probability & Statistics for Engineers	3		Only 2 attempts allowed	MATH 1242 w/grade of C or higher MATH 2241 w/grade of C or higher
XXXX XXXX			Other Technical Elective (OTE)	3		Only 2 attempts allowed	See Degree Works for options	
XXXX XXXX			Other Technical Elective (OTE)	3		Only 2 attempts allowed	See Degree Works for options	
Total: 15								
Fourth Year	Fall	ECGR 4251	Computer Engineering Senior Design I	2		Only 2 attempts allowed	ECGR 3101, ECGR 3111, ECGR 3157 & 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 Find Amer Demo 1575)	3		Only 2 attempts allowed		
	Total: 14							
	Fourth Year	Spring	ECGR 4252	Computer Engineering Senior Design II	2		Only 2 attempts allowed	ECGR 4251 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	See Degree Works for options
			ECGR 4XXX	Technical Elective	3		Only 2 attempts allowed	Junior Standing
XXXX 15xx			Gen Ed Requirement (Theme 1501, 1502, 1511/1512 Find Amer Demo 1575)	3		Only 2 attempts allowed	https://ge.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 req co-requisite
 Course in **bold** must be taken as a co requisite