

Computer Engineering Checksheet

Name: _____
 Student ID#: _____

	Term(s)	Course #	Course Title	Hrs		Prerequisites	
Common First Year (CFY)	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) Fad 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) Fad 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			Note: WRDS 1104 is 4 credit hours	
Total: 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						
	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						
	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 STAI 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
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) Fad Amer Demo 1575)	3		Only 2 attempts allowed	
	Total: 14						
	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) Fad 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 **pr** or **co**-requisite
 Course in **bold** must be taken as a co-requisite