

# Construction Engineering Checksheet

Name: \_\_\_\_\_  
Student ID#: \_\_\_\_\_

Common First Year (CFY)	Term(s)	Course #	Course Title	Hrs	Prerequisites	
Fall		ENGR 1300	Exploring Engineering and Technology*	2	Only 2 attempts allowed	
		ENGR 1301	Foundations of Math & Science for Engineering*	3	Only 2 attempts allowed	
		MATH 1241	Calculus*	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	<a href="https://sg.charlotte.edu/charlotte-core/general-education-curriculum/">https://sg.charlotte.edu/charlotte-core/general-education-curriculum/</a>
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Find Amer Demo 1575)	3	Only 2 attempts allowed	<a href="https://sg.charlotte.edu/charlotte-core/general-education-curriculum/">https://sg.charlotte.edu/charlotte-core/general-education-curriculum/</a>
<b>Total:</b>				<b>14</b>		
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
	<b>Total:</b>				<b>16</b>	

Second Year	Term(s)	Course #	Course Title	Hrs	Prerequisites	
Fall		MATH 2241	Calculus III*	3	Only 2 attempts allowed	MATH 1242
		CHEM 1352	General Chemistry for Engineers*	4	Only 2 attempts allowed	ENGR 1301 or CHEM 1251 w/grade of C or higher
		ETCE 1222	Construction Materials	3	Only 2 attempts allowed	
		CEGR 2101	Civil Engineering Drawing*	2	Only 2 attempts allowed	ENGR 1303 w/grade of C or higher
		MEGR 2141	Eng Mechanics I (Statics)*	3	Only 2 attempts allowed	PHYS 2101 & MATH 1242 w/grade of C or higher
<b>Total:</b>				<b>15</b>		
Spring		ETCE 1211	Construction Surveying	3	Only 2 attempts allowed	MATH 1103 or higher math, [ETCE 1104]   ETCE 1211L
		ETCE 1211L	Construction Surveying I Lab	1	Only 2 attempts allowed	MATH 1103   ETCE 1211
		ETCE 2163L	Construction Materials & Structures Lab	1	Only 2 attempts allowed	ETCE 1222, [ETGR 2102]
		CEGR 2102	Eng Economic Analysis*	3	Only 2 attempts allowed	ENGR 1302 w/grade of C or higher
		PHYS 2102/CHEM 1252	Physics II/General Chemistry II	3	Only 2 attempts allowed	PHYS 2101 w/grade of C or higher, MATH 1242 / CHEM 1251
		MATH 2171	Differential Equations*	3	Only 2 attempts allowed	MATH 1242 w/grade of C or higher
		MEGR 2144	Solid Mechanics*	3	Only 2 attempts allowed	MEGR 2141 w/grade of C or higher
<b>Total:</b>				<b>17</b>		

Third Year	Term(s)	Course #	Course Title	Hrs	Prerequisites	
Fall		CMET 2221	Construction Means & Methods	3	Only 2 attempts allowed	[PHYS 1101], CMET 2105
		CMET 2105	Plan Reading	2	Only 2 attempts allowed	ETCE 1222, [CMET 1400, MATH 1103], CMET 2221, & CMET 2105L
		CMET 2105L	Plan Reading Lab	1	Only 2 attempts allowed	CMET 2105, CMET 2221
		CEGR 3122	Structural Analysis*	3	Only 2 attempts allowed	MATH 2171 & MEGR 2144 both w/grade of C or higher
		CEGR 3143	Hydraulics & Hydrology*	3	Only 2 attempts allowed	MATH 2171 & MEGR 2141 both w/grade of C or higher
		CEGR 3258	Geotechnical Lab	2	Only 2 attempts allowed	CEGR 3278
		CEGR 3278	Geotechnical Engineering*	3	Only 2 attempts allowed	MATH 2171 & MEGR 2144 both w/grade of C or higher
<b>Total:</b>				<b>17</b>		
Spring		CMET 3123	Cost Estimating 1	3	Only 2 attempts allowed	CMET 2105, CMET 2105L, CMET 2221
		STAT 3128	Prob & Stat	3	Only 2 attempts allowed	MATH 2241
		CMET 1680	Construction Safety	1	Only 2 attempts allowed	
		ACCT 2121	Principles of Accounting I	3	Only 2 attempts allowed	MATH 1120, MATH 1241, MATH 1242, STAT 1220, STAT 1221, STAT 1222, or STAT 2122
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Find Amer Demo 1575)	3	Only 2 attempts allowed	<a href="https://sg.charlotte.edu/charlotte-core/general-education-curriculum/">https://sg.charlotte.edu/charlotte-core/general-education-curriculum/</a>
		XXXX XXXX	ETCE/CEGR/CMET Elective	3	Only 2 attempts allowed	See Degree Works for options
<b>Total:</b>				<b>16</b>		

Fourth Year	Term(s)	Course #	Course Title	Hrs	Prerequisites/Corequisites/Restrictions	
Summer		CNGR 3001	Construction Internship	1		Required Summer Prior to Dec/May Graduation
<b>Total:</b>				<b>1</b>		
Fall		CNGR 3290	Temporary Structures in Construction	3	Only 2 attempts allowed	CEGR 3122
		CMET 3224	Construction Project Administration	3	Only 2 attempts allowed	Junior or Senior standing or AAS degree
		CMET 3126	Project Planning and Scheduling	3	Only 2 attempts allowed	CMET 3123
		Design Elective	(Steel, Reinforced Concrete, or Highway Design)	3	Only 2 attempts allowed	
		ENGR 3295	Multidisciplinary Professional Development	1	Only 2 attempts allowed	Junior or Senior standing
<b>Total:</b>				<b>13</b>		
Spring		CNGR 4272	Capstone Project	3	Only 2 attempts allowed	CNGR 3290, CMET 3123, CMET 3126, and St. Standing
		XXXX XXXX	ETCE/CEGR/CMET Elective	3	Only 2 attempts allowed	See Degree Works for options
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Find Amer Demo 1575)	3	Only 2 attempts allowed	<a href="https://sg.charlotte.edu/charlotte-core/general-education-curriculum/">https://sg.charlotte.edu/charlotte-core/general-education-curriculum/</a>
		CTCM 2530	General Education-Interdisciplinary Critical Thinking	3	Only 2 attempts allowed	WRDS 1103 or WRDS 1104
<b>Total:</b>				<b>12</b>		

\* = grade of C or better is required for degree progression  
 © = 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