

# Civil Engineering Checksheet

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

	Term(s)	Course #	Course Title	Hrs			Prerequisites		
Common First Year (CFY)	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)   Fnd Amer Demo 1575)	3		Only 2 attempts allowed	<a href="https://age.charlotte.edu/charlotte-core/general-education-curriculum/">https://age.charlotte.edu/charlotte-core/general-education-curriculum/</a>		
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512)   Fnd Amer Demo 1575)	3		Only 2 attempts allowed	<a href="https://age.charlotte.edu/charlotte-core/general-education-curriculum/">https://age.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	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		
		CEGR 2102	Eng Economic Analysis*	3		Only 2 attempts allowed	ENGR 1302 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		
		CTCM 2530	Critical Thinking and Comm	3		Only 2 attempts allowed	WRDS 1103/1104 and at least Sophomore Standing		
		<b>Total:</b>				<b>16</b>			
	Spring	MATH 2171	Differential Equations*	3		Only 2 attempts allowed	MATH 1242 w/grade of C or higher		
		CEGR 2101	Civil Engineering Drawing*	2		Only 2 attempts allowed	ENGR 1303 w/grade of C or higher		
		CEGR 2154	Design Project Lab*	2		Only 2 attempts allowed	ENGR 1300 and CEGR 2102 both w/grade of C or higher		
		PHYS 2102	Physics II	3		Only 2 attempts allowed	PHYS 2101 w/grade of C or higher		
		MEGR 2144	Solid Mechanics*	3		Only 2 attempts allowed	MEGR 2141 w/grade of C or higher		
		CEGR 3256	Structural Materials Lab*	1		Only 2 attempts allowed	MEGR 2141 w/grade of C or higher   MEGR 2144		
		<b>Total:</b>				<b>14</b>			
		Third Year	Fall	CEGR 3143	Hydraulics & Hydrology*	3		Only 2 attempts allowed	MATH 2171 & MEGR 2141 both w/grade of C or higher
	CEGR 3141			Intro to Environmental Eng*	3		Only 2 attempts allowed	MATH 2171, CHEM 1352, & MEGR 2141 all w/grade of C or higher	
	CEGR 3155			Environmental Lab	2		Only 2 attempts allowed	CEGR 3141	
CEGR 3278	Geotechnical Eng*			3		Only 2 attempts allowed	MATH 2171 & MEGR 2144 both w/grade of C or higher		
CEGR 3259	Geotech Lab			1		Only 2 attempts allowed	CEGR 3278		
CEGR 3122	Structural Analysis*			3		Only 2 attempts allowed	MATH 2171 & MEGR 2144 both w/grade of C or higher		
<b>Total:</b>				<b>15</b>					
Spring	CEGR 3161		Transportation Engineering*	3		Only 2 attempts allowed	MATH 2241, CEGR 2102, CEGR 2101, & MEGR 2141 all w/grade of C or higher		
	CEGR 3153		Transportation Lab	2		Only 2 attempts allowed	CEGR 3161		
	MEGR/CEGR Elective		ECGR 2161, MEGR 3111, MEGR 3121	3		Only 2 attempts allowed	Grade of C or higher: ECGR2161(PHYS 2102), MEGR3111 (MATH 1242 & PHYS 2101), MEGR3121 (MEGR 2141& MATH 1242)		
	CEGR 3111		Construction Engineering*	3		Only 2 attempts allowed	CEGR 3122, CEGR 3278, & CEGR 3255 all w/grade of C or higher		
	XXXX 15xx		Gen Ed Requirement (Theme 1501, 1502, 1511/1512)   Fnd Amer Demo 1575)	3		Only 2 attempts allowed	<a href="https://age.charlotte.edu/charlotte-core/general-education-curriculum/">https://age.charlotte.edu/charlotte-core/general-education-curriculum/</a>		
	CEGR Design Elective	Check Course Catalog for Prerequisites*	3		Only 2 attempts allowed	<a href="https://catalog.charlotte.edu/preview_program.php?catid=40&amp;prcid=1148">https://catalog.charlotte.edu/preview_program.php?catid=40&amp;prcid=1148</a>			
<b>Total:</b>				<b>17</b>					
Fourth Year	Fall	STAT 3128	Prob & Stat	3		Only 2 attempts allowed	MATH 2241		
		CEGR 3221 or 3225	Structural Steel Design I / Reinforced Concrete Design I	3		Only 2 attempts allowed	CEGR 3122 & CEGR 3255 w/grade of C or higher		
		CEGR Technical Elective	Check Course Catalog for Prerequisites*	3		Only 2 attempts allowed			
		CEGR Design Elective	Check Course Catalog for Prerequisites*	3		Only 2 attempts allowed			
		Science Elective	Biology/Geology/Earth Science	3		Only 2 attempts allowed	Will need to meet course prerequisite requirements. Check DegreeWorks for options		
	<b>Total:</b>				<b>15</b>				
	Spring	CEGR 3201	Systems and Design I	3		Only 2 attempts allowed	Senior Standing in CE		
		CEGR Elective	Check Course Catalog for Prerequisites*	3		Only 2 attempts allowed			
		CEGR Elective	Check Course Catalog for Prerequisites*	3		Only 2 attempts allowed			
		ENGR 3295	Professional Development	1		Only 2 attempts allowed	Junior Standing		
XXXX 15xx		Gen Ed Requirement (Theme 1501, 1502, 1511/1512)   Fnd Amer Demo 1575)	3		Only 2 attempts allowed	<a href="https://age.charlotte.edu/charlotte-core/general-education-curriculum/">https://age.charlotte.edu/charlotte-core/general-education-curriculum/</a>			
<b>Total:</b>				<b>13</b>					

\* = 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