

# Civil Engineering Technology 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
		ENGR 1302	Logic and Computational Problem Solving*	3		Only 2 attempts allowed
		MATH 1103	Pre-Calculus*	3		Only 2 attempts allowed
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Fnd Amer Demo 1575)	3		Math Placement Level 3/MATH 1100/MATH 1101 <a href="https://age.charlotte.edu/charlote-core-general-education-curriculum/">https://age.charlotte.edu/charlote-core-general-education-curriculum/</a>
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Fnd Amer Demo 1575)	3		
				<b>Total:</b>	<b>17</b>	
Spring		ENGR 1303	Engineer Visualization and Graphical Communication*	3		Only 2 attempts allowed
		STAT 1220	Elements of Statistics I	3		Only 2 attempts allowed
		MATH 1241	Calculus I*	3		Only 2 attempts allowed
		PHYS 2101	Physics I*	3		Only 2 attempts allowed
		PHYS 2101L	Physics I Lab*	1		Only 2 attempts allowed
		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		PHYS 2102	Physics II	3		PHYS 2101, <i>MATH 1242</i>
		ETGR 2101	Applied Mechanics I*	3		MATH 1103
		ETGR 2272	Engineering Analysis II (or MATH 1242)	3		ETGR 2171, MATH 1241 or MATH 1121
		ETCE 1104	Civil/Construction CAD Applications*	3		
		ETCE 1222	Construction Materials*	3		
		CMET 1680	Prof. Development I: Construction Safety*	1		
				<b>Total:</b>	<b>16</b>	
Spring		ETCE 2163L	Construction Materials and Structures Lab	1		ETCE 1222, ETGR 2101
		CMET 2221	Construction Means and Methods	3		PHYS 1101, <b>CMET 2105</b>
		ETCE 2410	Intro to Environmental Engineering Technology	3		MATH 1103 or higher, ETGR 2101*
		ETGR 2102	Applied Mechanics II	3		ETGR 2101*
		ETCE 1211	Construction Surveying I*	3		MATH 1103, ETCE 1104, <b>ETCE 1211L</b>
		ETCE 1211L	Construction Surveying I Lab*	1		<b>ETCE 1211</b>
		CMET 2105	Plan Reading	3		ETCE 1222, CMET 1400, MATH 1103, <b>CMET 2221</b> , <b>CMET 2105L</b>
		CMET 2105L	Plan Reading Lab	1		<b>CMET 2105</b> , <b>CMET 2221</b>
				<b>Total:</b>	<b>18</b>	

Third Year	Term(s)	Course #	Course Title	Hrs		Prerequisites
Fall		CMET 2135	Building Information Modeling	3		ETCE 1211L
		ETCE 3131	Soil Mechanics and Earthwork	3		ETGR 2102 or CMET 2175
		ETCE 3131L	Soil Testing Laboratory	1		<b>ETCE 3131</b>
		ETCE 3264	Structural Analysis	3		ETGR 2102, ETGR 2272
		GEOL 1200	Physical Geology	3		
		CTCM 2530	Critical Thinking and Communication	3		WRDS 1103 or WRDS 1104, Sophomore Standing
				<b>Total:</b>	<b>16</b>	
Spring		CMET 3680	Prof. Development III: Professional Ethics	1		Junior Standing
		CMET 3123	Cost Estimating	3		CMET 2105/L, CMET 2221
		ETCE 3242	Hydraulics and Hydrology	3		ETGR 2102, ETCE 2410, PHYS 2102 or AAS transfer
		ETCE 4350	Construction Geotechnics and Foundations	3		ETCE 3131
		ETGR 3295	Multidisciplinary Prof. Development	1		Junior or Senior Standing
		ETGR 3222	Engineering Economics	3		
				<b>Total:</b>	<b>14</b>	

Fourth Year	Term(s)	Course #	Course Title	Hrs		Prerequisites
Fall		ETCE 4165	Structural Steel Design	3		ETCE 3163, 3111 or ETCE 3264
		ETCE 4251	Highway Design and Construction	3		ETCE 1211, ETCE 3131
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Fnd Amer Demo 1575)	3		
		Major Elective		3		
				<b>Total:</b>	<b>12</b>	
Spring		CMET 3224	Construction Project Administration	3		Junior or Senior standing or AAS degree
		ETCE 4266	Reinforced Concrete Design	3		ETCE 3163 or ETCE 3264
		ETCE 4272	Capstone Project	3		Senior Standing
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Fnd Amer Demo 1575)	3		
				<b>Total:</b>	<b>12</b>	

\* = 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