

Civil Engineering Technology Checksheet

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

Common First Year (CFY)	Fall	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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	
			ENGR 13xx	Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)*	2-3		Only 2 attempts allowed	
			MATH 1103	Pre-Calculus*	3		Only 2 attempts allowed	Math Placement Level 3/MATH 1100/MATH 1101
			XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512 Fnd Amer Demo 1575)	3			https://age.charlotte.edu/charlotte-core/general-education-curriculum/
			XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512 Fnd Amer Demo 1575)	3			
		Total: 4-24						
	Spring	Term(s)	Course #	Course Title	Hrs			Prerequisites
			ENGR 13xx	Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)*	2-3		Only 2 attempts allowed	
			STAT 1220	Elements of Statistics I	3		Only 2 attempts allowed	MATH 1100 or higher
			MATH 1241	Calculus I*	3		Only 2 attempts allowed	MATH 1103
			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: 2-16						
Second Year	Fall	Term(s)	Course #	Course Title	Hrs			Prerequisites
			PHYS 2102	Physics II	3			PHYS 2101, MATH 1242
			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			
		Total: 16						
	Spring	Term(s)	Course #	Course Title	Hrs			Prerequisites
			ETCE 2163L	Construction Materials and Structures Lab	1			ETCE 1222, ETGR 2101
			CMET 2221	Construction Means and Methods	3			PHYS 1101, CMET 2105
			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, ETCE 1211L
			ETCE 1211L	Construction Surveying I Lab*	1			ETCE 1211
			CMET 2105	Plan Reading	3			ETCE 1222, CMET 1400, MATH 1103, CMET 2221, CMET 2105L
			CMET 2105L	Plan Reading Lab	1			CMET 2105, CMET 2221
		Total: 18						
Third Year	Fall	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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			ETCE 3131
			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
		Total: 16						
	Spring	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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			
		Total: 14						
Fourth Year	Fall	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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			
		Total: 12						
	Spring	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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			
		Total: 12						

* = grade of C or better is required for degree progression
 Courses in *italics* can be taken as a pre **gr** co-requisite
 Course in **bold** must be taken as a co requisite