

Civil Engineering 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	
			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	https://age.charlotte.edu/charlotte-core-general-education-curriculum/
			XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512 Fnd Amer Demo 1575)	3			https://age.charlotte.edu/charlotte-core-general-education-curriculum/
	Total: 14-15							
	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	
			ENGR 13xx	Foundational ENGR course (ENGR 1300, 1301, 1302, or 1303)*	2-3		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: 15-16								
Second Year	Fall	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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
		Total: 16						
	Spring	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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 3255	Structural Materials Lab*	2		Only 2 attempts allowed	MEGR 2141 and MEGR 2144 w/grade of C or higher
	Total: 15							
Third Year	Fall	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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
	Total: 15							
	Spring	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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	https://age.charlotte.edu/charlotte-core-general-education-curriculum/
			CEGR Design Elective	Check Course Catalog for Prerequisites*	3		Only 2 attempts allowed	https://catalog.charlotte.edu/preview_program.php?catoid=80&prod=11489
Total: 17								
Fourth Year	Fall	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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 Electiv	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
	Total: 15							
	Spring	Term(s)	Course #	Course Title	Hrs			Prerequisites
			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	https://age.charlotte.edu/charlotte-core-general-education-curriculum/		
Total: 13								

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

Courses in *italics* can be taken as a pre **gc** co-requisite

Course in **bold** must be taken as a co requisite