

# Environmental 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)	Term(s)	Course #	Course Title	Hrs	Attempts		Prerequisites	
					1	2		
Fall		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 I*	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://ge.charlotte.edu/charlotte-core/general-education-curriculum/">https://ge.charlotte.edu/charlotte-core/general-education-curriculum/</a>	
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Find Amer Demo 1575)	3			<a href="https://ge.charlotte.edu/charlotte-core/general-education-curriculum/">https://ge.charlotte.edu/charlotte-core/general-education-curriculum/</a>	
	<b>Total: 14-15</b>							
Spring		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	
<b>Total: 15-16</b>								
Second Year	Fall		MATH 2241	Calculus III*	3	Only 2 attempts allowed	MATH 1242 w/grade of C or better	
			MEGR 2141	Engineering Mechanics I (Statics)*	3	Only 2 attempts allowed	PHYS 2101 & MATH 1242 w/grade of C or higher	
			BIOL 1110	Principles of Biology*	3	Only 2 attempts allowed		
			CEGR 2102	Engineering Economics*	3	Only 2 attempts allowed	ENGR 1302 w/grade of C or higher	
			CTCM 2530	Critical Thinking and Comm	3	Only 2 attempts allowed	WRDS 1103 or 1104 & Sophomore Standing	
							Only 2 attempts allowed	
	<b>Total: 15</b>							
	Spring		MATH 2171	Differential Equations*	3	Only 2 attempts allowed	MATH 1242 w/grade of C or higher	
			CHEM 1352	General Chemistry for Engineering*	4	Only 2 attempts allowed	ENGR 1301 or CHEM 1251 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 & CEGR 2102 w/grade of C or higher	
			ESCI 2210	Field Methods in the Earth & Environmental Sci	3	Only 2 attempts allowed	Permission of Instructor	
<b>Total: 14</b>								
Third Year	Fall		CEGR 3141	Intro to Environmental Eng*	3	Only 2 attempts allowed	MATH 2171, CHEM 1352 or CHEM 1252/L, & MEGR 2141 all 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	
			MEGR 3111	Thermodynamics*	3	Only 2 attempts allowed	MATH 1242 & PHYS 2101 w/grade of C or higher	
			CEGR 3155	Environmental Lab	2	Only 2 attempts allowed	CEGR 3141	
			ESCI 4210 or ESCI 4233	Soil Science Geoenvironmental Site Characterization	4	Only 2 attempts allowed	Permission of Instructor	
							Only 2 attempts allowed	
	<b>Total: 15</b>							
	Spring		CEGR 4146	Advanced Engineering Hydraulics*	3	Only 2 attempts allowed	CEGR 3143 w/grade of C or higher	
			ENVE 3145	Hydraulics Lab	2	Only 2 attempts allowed	<b>CEGR 4146</b>	
			CEGR 4242	Wastewater Treatment Design*	3	Only 2 attempts allowed	CEGR 3141 w/grade of C or higher	
			CEGR 4264	Landfill Design* or Groundwater Resources Engineering*	3	Only 2 attempts allowed	CEGR4264/CEGR 3141 w/grade of C or higher) CEGR4145/CEGR 3143 w/grade of C or higher)	
			ENVE 3111	Construction Engineering	2	Only 2 attempts allowed	CEGR 3141 w/grade of C or higher	
		CEGR Elective		3	Only 2 attempts allowed			
<b>Total: 16</b>								
Fourth Year	Fall		STAT 3128	Probability & Statistics for Engineers	3	Only 2 attempts allowed	MATH 2241 w/grade of C or higher	
			CEGR 4142	Water Treatment Engineering*	3	Only 2 attempts allowed	CEGR 3141 w/grade of C or higher	
			CEGR 4144	Engineering Hydrology	3	Only 2 attempts allowed	CEGR 3143 w/grade of C or higher	
			CEGR 4149	Environmental Eng Principles & Printices	3	Only 2 attempts allowed	CEGR 3141 w/grade of C or higher	
			CEGR Technical Elective		3	Only 2 attempts allowed		
	<b>Total: 15</b>							
	Spring		ENVE 3202	Environmental Systems & Design	2	Only 2 attempts allowed	Instructor's Approval	
			CEGR 4153	Fundamentals of Environmental Microbiology	3	Only 2 attempts allowed	CEGR 3141 w/grade of C or higher	
			ENGR 3295	Professional Development	1	Only 2 attempts allowed	<i>Junior Standing</i>	
			CEGR Technical Elective		3	Only 2 attempts allowed		
			XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Find Amer Demo 1575)	3	Only 2 attempts allowed		
		XXXX 15xx	Gen Ed Requirement (Theme 1501, 1502, 1511/1512   Find Amer Demo 1575)	3	Only 2 attempts allowed	<a href="https://ge.charlotte.edu/charlotte-core/general-education-curriculum/">https://ge.charlotte.edu/charlotte-core/general-education-curriculum/</a>		
<b>Total: 15</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