

Cleveland State University  
Fenn College of Engineering  
Bachelor of Civil Engineering

**First Year**

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ENG 101 College Writing	3		W/C	ENG 102 or ESC 102 Technical Writing	3		W/C
MTH 181 Calculus I	4	X	M/QL	MTH 182 Calculus	4	X	M/QL
CHM 261 General Chemistry I	4	X	NS	PHY 241 University Physics I	5	X	NS
CHM 266 General Chemistry I Lab	1	X	NS	General Education Elective	3		
ESC 100 New Student Orientation	1	X	INTRO	GEO 100 Introduction to Geology	3	X	
ESC 120 Intro to Engineering Design	2	X					
<i>Semester Total</i>	<i>15</i>			<i>Semester Total</i>	<i>18</i>		

**Second Year**

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
PHY 242 University Physics II	5	X		ESC 211 Strength of Materials	3	X	
ESC 201 Statics	3	X		CVE 310 Strength of Materials Lab	2	X	
ESC 250 Differential Equations for Engineers	3	X		CVE 360 Mechanics of Fluids Basic Thermal	4	X	
MTH 283 Multivariate Calculus for Engineers	2	X		ESC 200 Engineering History & Heritage	3	X	SS
CVE 211 Surveying	3	X		ESC 282 Engineering Economy	3	X	SS
CVE 211 Surveying Lab	2	X				X	
<i>Semester Total</i>	<i>18</i>			<i>Semester Total</i>	<i>15</i>		

**Third Year**

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ESC 202 Dynamics	3	X		CVE 322 Structural Steel Design	3	X	
CVE 312 Structural Analysis I	3	X		CVE 331 Intro to Geotechnical Engineering	3	X	
CVE 361 Hydraulics Engineering	3	X		CVE 332 Geotechnical Engineering Lab	2	X	
CVE 362 Hydraulics Engineering Lab	2	X		CVE 461 Hydrologic Analysis	3	X	
CVE 371 Environmental Engineering I	3	X		CVE 422 Reinforced Concrete Design	3	X	
CVE 372 Environmental Engineering I Lab	2	X					
<i>Semester Total</i>	<i>16</i>			<i>Semester Total</i>	<i>14</i>		

**Fourth Year**

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
CVE 426 Preliminary Design	2	X	SPAC	CVE 403 Construction Planning & Estimating	3	X	
CVE 429 Foundation Engineering	3	X		CVE 427 Capstone Design	2	X	CAP WAC
CVE 446 Transportation Engineering	3	X		CVE Tech Elective	3	X	
PHL 215 Engineering Ethics	3	X	A&H WAC	CVE Tech Elective	3		
General Education Elective	3		A&H	General Education Elective	3		DIV
General Education Elective	3		DIV				
<i>Apply for Spring graduation prior to Sep 9th</i>							
<i>Semester Total</i>	<i>17</i>			<i>Semester Total</i>	<i>14</i>		

**Degree Total: 127 hours**

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

**College/ Program Notes:**

The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Gen Ed courses, although the M/QL and W/C requirements should be completed during the first year of study.

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\*General Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 128 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.

**University Notes:**

<b>Gen Ed Key:</b>	SS = Social Sciences Requirement (2 courses, one of which must be focused outside the US**)
INTRO = Introduction to University Life Requirement (one course)	A&H = Arts & Humanities Requirement (2 courses, one must be focused outside the US**)
W/C = Writing/Composition Requirement (two courses; C or better required)	DIV = Social Diversity Requirement (2 courses; one US Diversity and one African American Exp.)
M/QL = Mathematics/Quantitative Literacy Requirement (two courses)	WAC/SPAC = Writing/Speaking Across the Curriculum Requirement (3 courses, one in the major)
NS = Natural Sciences (two courses, one of which must have a lab)	CAP = Capstone Requirement
** of the SS and A&H courses focused outside the US, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)	

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