

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	Social Science Gen Ed Elective	3		SS
ESC 100 New Student Orientation	1	X	INTRO	GEO 100 Introductory Geology	3	X	
ESC 120 Intro to Engineering Design	2	X		GEO 101 Introductory Geology Lab	1		
<i>Semester Total</i>	15			<i>Semester Total</i>	19		

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	
CVE 211 Surveying	3	X		ESC 282 Engineering Economy	3	X	SS
CVE 211 Surveying Lab	2	X				X	
<i>Semester Total</i>	18			<i>Semester Total</i>	15		

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>	16			<i>Semester Total</i>	14		

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				
Apply for Spring graduation prior to Sep 9th							
<i>Semester Total</i>	17			<i>Semester Total</i>	14		

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.

Cleveland State University
Fenn College of Engineering
Bachelor of Civil Engineering

*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:

Gen Ed Key:	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)	

This information is provided solely for the convenience of the reader, and the University expressly disclaims any liability which may otherwise be incurred. This publication is neither a contract nor an offer to make a contract. While every effort has been made to ensure the accuracy of the information, the University reserves the right to make changes at any time with respect to course offerings, degree requirements, services provided, or any other subject addressed herein.