

Cleveland State University
Washkewicz College of Engineering
Bachelor of Civil Engineering
NEW FALL 2019

First Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ENG 100 or ENG 101 College Writing I	3		W/C	ESC 102 Technical Writing or ENG 201	3		W/C
MTH 181 Calculus I	4	x	M/QL	MTH 182 Calculus II	4	x	M/QL
CHM 261 General Chemistry I	3	x	NS	PHY 241 University Physics I	5	x	NS
CHM 266 General Chemistry Lab I	1	x	NS	ESC 151/152 C prog. or Prog. w Matlab	3	x	
ESC 120 Intro. To Engineering Design	2	x	INTRO				
ESC 100 New Student Orientation*	1	x					
Semester Total	14			Semester Total	15		

Second Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ESC 201 Statics	3	x		ESC 211 Strength of Materials	3	x	
ESC 250 Differential Equations for Engrs.	3	x		CVE 310 Strength of Material Lab	2	x	
MTH 283 Multivariable Calculus for Engrs.	2	x		CVE 360 Mechanics of fluids & Therm. Sys. for Civil Engineers	4	x	
PHY 242 Univ. Physics II	5	x		GEO 100 Introduction to Geology	3	x	
CVE 211 Surveying	3	x		GEO 101 Introductory Geology Laboratory	1	x	
CVE 212 Surveying lab	2	x		ESC 202 Dynamics	3	x	
Semester Total	18			Semester Total	16		

Third Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ESC 282 Engineering Economy	3	x	SS	CVE 322 Structural Steel Design	3	x	
CVE 312 Structural Analysis I	3	x		CVE 331 Intro. To Geotechnical Engineering	3	x	
CVE 361 Hydraulic Engineering	3	x		CVE 332 Geotechnical Engineering Lab	2	x	
CVE 362 Hydraulics Lab	2	x		CVE 461 Hydrologic Analysis	3	x	
CVE 371 Environmental Engineering I	3	x		CVE 422 Reinforced Concrete Design	3	x	
CVE 374 Environmental Engineering Lab	2	x		ESC 310 Engineering Stats/ Prob. OR STA 323 Stat. Methods	3	x	
Semester Total	16			Semester Total	17		

Fourth Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
CVE 429 Foundation Engineering	3	x		CVE 403 Construction Planning and Estm	3	x	
CVE 446 Transportation Engineering	3	x		CVE 426 Preliminary Design (SPAC)	2	x	SPAC
PHL 215 Engineering Ethics	3	x	A&H, WA	CVE 427 Capstone Design (WAC)	2	x	WAC
CVE Tech Elective _____	3	x		CVE Tech Elective _____	3	x	
Gen Ed Elective _____	3		A&H	Gen Ed Elective _____	3		SS
Gen Ed Elective _____	3		DIV	Gen Ed Elective _____	3		DIV
Apply for Spring graduation prior to Sep 9th							
Semester Total	18			Semester Total	16		
Degree Total: 130 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.

*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.

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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)	

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