

Cleveland State University
Fenn College of Engineering
Bachelor of Computer 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 243 Univ. Physics I (w/Writing)	5	X	NS WAC	
CHM 266 General Chemistry I Lab	1	X	NS	CIS 260 Intro to Programming	4	X		
ESC 100 New Student Orientation	1	X	INTRO					
ESC 120 Intro to Engineering Design	2	X						
<i>Semester Total</i>	15			<i>Semester Total</i>	16			

Second Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
MTH 284 Matrices for Engineers	2	X		EEC 382 Digital Systems and Lab	4	X		
PHY 244 Univ Physics II (w/Writing)	5	X	NS WAC	EEC 311 Electric Circuits II	4	X		
ESC 250 Differential Equations for Engineer	3	X		EEC 313 Electronics I	4	X		
EEC 310 Electric Circuits I	4	X		CIS 340 C/C++ for Systems Programming	2	X		
CIS 265 Data Structures & Algorithms	4	X		General Education Elective	3		DIV	
<i>Semester Total</i>	18			<i>Semester Total</i>	17			

Third Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
EEC 487 Advanced Digital Systems	4	X		EEC 483 Computer Organization	4	X		
EEC 316 Electronics Lab	1	X		ESC 282 Engineering Economy	3	X	SS	
CIS 345 Architecture & OS	4	X		PHL 215 Engineering Ethics	3	X	A&H WAC	
EEC 414 Writing in Elec & Comp Engineerin	2	X		MTH 220 Discrete Mathematics	4	X		
General Education Elective	3		SS	General Education Elective	3		DIV	
<i>Semester Total</i>	14			<i>Semester Total</i>	17			

Fourth Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
EEC 484 Computer Networks	4	X		EEC 490 Senior Design	4	X	CAP	
EEC 488 Advanced Digital Lab	4	X		EEC Tech Elective	4	X		
EEC 421 Software Engineering	4	X		EEC Tech Elective	4	X		
ESC 310 Engineering Statistics & Probabilit	3	X		General Education Elective	3		A&H	
<i>Semester Total</i>	15			<i>Semester Total</i>	15			
<i>Degree Total: 127 hours</i>								

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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