

Cleveland State University
Fenn College of Engineering
Bachelor of Electrical 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 University Physics I (Writing)	5	X	NS WAC
CHM 266 General Chemistry I Lab	1	X	NS	ESC 151 C Programming	3		
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>	15		

Second Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
PHY 244 University Physics II (Writing)	5	X	WAC	EEC 311 Electric Circuits II	4	X	
MTH 283 Multivariate Calculus for Engineers	2	X		EEC 312 Circuits Lab	2	X	
MTH 284 Matrices for Engineers	2	X		EEC 313 Electronics I	4	X	
ESC 250 Differential Equations for Engineers	3	X		ESC 310 Eng. Statistics & Probability	3	X	
EEC 310 Electric Circuits I	4	X		General Education Elective	3		DIV
<i>Semester Total</i>	16			<i>Semester Total</i>	16		

Third Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
EEC 314 Electronics II	4	X		ESC 203 Statics and Dynamics	4	X	
EEC 315 Electronics II Lab	2	X		ESC 282 Engineering Economy	3	X	SS
EEC 361 Electro-Mech Energy Conversion	4	X		PHL 215 Engineering Ethics	3	X	A&H WAC
EEC 382 Digital Systems 7 Lab	4	X		EEC 460 Engineering Electromagnetics	4	X	
EEC 414 Writing in Elec & Comp Eng	2	X	WAC	General Education Elective	3		DIV
<i>Semester Total</i>	16			<i>Semester Total</i>	17		

Fourth Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
EEC Core Elective**	4	X		EEC 490 Senior Design	4	X	CAP
EEC Core Lab**	2	X		EEC Tech Elective	4	X	
EEC Core Elective**	4	X		EEC Tech Elective	4	X	
EEC Core Lab**	2	X		General Education Elective	3		SS
EEC Tech Elective	4	X					
General Education Elective	3		A&H				
Apply for Spring graduation prior to Sep 9th							
<i>Semester Total</i>	19			<i>Semester Total</i>	15		

Degree Total: 129 hours

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

College/ Program Notes:

**Two Core Elective/Lab sets should be selected from the following three areas: (Communications: EEC450/EEC451; Controls: EEC440/EEC441; or Power Electronics: EEC470/EEC471)

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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