

Cleveland State University
Washkewicz College of Engineering
Bachelor of Electrical Engineering

last updated 5/27/2014

First Year								
Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed	
ENG 100 or ENG 101 College Writing	3		W/C	ENG 102 or ESC 102 Technical Writing	3		W/C	
MTH 181 Calculus I	4		M/QL	MTH 182 Calculus	4		M/QL	
CHM 261 General Chemistry I	3		NS	PHY 243 University Physics I (Writing)	5		NS WAC	
CHM 266 General Chemistry I Lab	1		NS	ESC 151 C Programming	3			
ESC 100 New Student Orientation	1		INTRO					
ESC 120 Intro to Engineering Design	2							
General Education Elective	3		DIV					
<i>Semester Total</i>	17			<i>Semester Total</i>	15			

Second Year								
Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed	
PHY 244 University Physics II (Writing)	5		WAC	EEC 311 Electric Circuits II	4			
MTH 283 Multivariate Calculus for Engineers	2			EEC 312 Circuits Lab	2			
MTH 284 Matrices for Engineers	2			EEC 313 Electronics I	3			
ESC 250 Differential Equations for Engineers	3			ESC 310 Eng. Statistics & Probability	3			
EEC 310 Electric Circuits I	4			ESC 282 Engineering Economy	3		SS	
<i>Semester Total</i>	16			<i>Semester Total</i>	15			

Third Year								
Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed	
EEC 314 Electronics II	3			EEC Tech Elective	3			
EEC 315 Electronics Lab	2			EEC 384 Digital Labs	2			
EEC 361 Electro-Mech Energy Conversion	3			PHL 215 Engineering Ethics	3		A&H WAC	
EEC 383 Digital Systems	3			EEC 460 Engineering Electromagnetics	4			
EEC 414 Writing in Elec & Comp Eng	2		WAC	EEC 440 Control	3			
General Education Elective	3		DIV	EEC 441 Control Lab	2			
<i>Semester Total</i>	16			<i>Semester Total</i>	17			

Fourth Year								
Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed	
EEC 450 Communications	3			EEC 494 Senior Design II	3		CAP	
EEC 451 Communications Lab	2			EEC Tech Elective	3			
EEC470 Power Eletronics	3			EEC Tech Elective	3			
EEC471 Power Eletronics Lab	2			EEC Tech Elective	3			
EEC 493 Senior Design I	2			EEC Tech Elective	2			
General Education Elective	3		A&H	General Education Elective	3		SS	
<i>Semester Total</i>	15			<i>Semester Total</i>	17			

Degree Total: 128 hours

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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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