

Cleveland State University
Washkewicz College of Engineering
Bachelor of Computer Engineering

last updated 11/02/2015

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 Univ. Physics I (w/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>	<i>17</i>			<i>Semester Total</i>	<i>15</i>		

Second Year							
Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed
EEC 383 Digital Systems	3			EEC 384 Digital Systems Lab	2		
CIS 260 Intro to Programming	4			CIS 265 Data Structures & Algorithms	4		
ESC 250 Differential Equations for Engineers	3			PHY 244 Univ Physics II (w/Writing)	5		NS WAC
EEC 310 Electric Circuits I	4			EEC 311 Electric Circuits II	4		
MTH 220 Discrete Mathematics	3						
<i>Semester Total</i>	<i>17</i>			<i>Semester Total</i>	<i>15</i>		

Third Year							
Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed
EEC 487 Advanced Digital Systems	3			EEC 483 Computer Organization	3		
EEC 313 Electronics I	3			PHL 215 Engineering Ethics	3		A&H
CIS 340 Sys Programming	3			CIS 345 Operating System	3		
EEC 414 Writing in Elec & Comp Engineering	2		WAC	ESC 282 Engineering Economy	3		SS
MTH 284 Matrices for Engineers	2			ESC 310 Engineering Statistics & Probability	3		
General Education Elective	3		DIV	EEC 316 Electronics Device Lab	1		
<i>Semester Total</i>	<i>16</i>			<i>Semester Total</i>	<i>16</i>		

Fourth Year							
Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed
EEC 493 Senior Design I	2			EEC 494 Senior Design II	3		CAP
EEC 488 Hardware-Software Codesign	3			EEC Tech Elective	3		
CIS 454 Data Com and Networking	3			EEC Tech Elective	3		
EEC Tech Elective	3			EEC Tech Elective	3		
General Education Elective	3		SS	General Education Elective	3		A&H
<i>Semester Total</i>	<i>14</i>			<i>Semester Total</i>	<i>15</i>		

Degree Total: 125 hours

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Gen Ed Key:

INTRO = Introduction to University Life Requirement (one course)

W/C = Writing/Composition Requirement (two courses; C or better required)

M/QL = Mathematics/Quantitative Literacy Requirement (two courses)

NS = Natural Sciences (two courses, one of which must have a lab)

SS = Social Sciences Requirement (2 courses, one of which must be focused outside the US**)

A&H = Arts & Humanities Requirement (2 courses, one must be focused outside the US**)

DIV = Social Diversity Requirement (2 courses; one US Diversity and one African American Exp.)

WAC/SPAC = Writing/Speaking Across the Curriculum Requirement (3 courses, one in the major)

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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