

Cleveland State University
Washkewicz College of Engineering
Bachelor of Computer Engineering

Name: _____

I.D. No: _____

Curriculum Sheet (Effective Fall 2018)

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>	17			<i>Semester Total</i>	15		

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>	17			<i>Semester Total</i>	15		

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			EEC 316 Electronics Device Lab	1		
CIS 340 Sys Programming	3			CIS 345 Operating System	3		
PHL 215 Engineering Ethics	3		A&H/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 414 Technical Communication	2		WAC
<i>Semester Total</i>	17			<i>Semester Total</i>	15		

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/CIS Tech Elective	3		
CIS 454 Data Com and Networking	3			EEC/CIS Tech Elective	3		
EEC/CIS Tech Elective	3			EEC/CIS Tech Elective	3		
General Education Elective	3		SS	General Education Elective	3		A&H
<i>Semester Total</i>	14			<i>Semester Total</i>	15		

Degree Total: 125 hour

(Revision History: Sequence of PHL 215 and EEC 414 changed (Fall 18), EEC 421, EEC 484, and EEC 486 replaced by CIS 340, CIS 345 and CIS 454 (Fall 16))

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)
A&H = Arts & Humanities Requirement (2 courses)
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

Cleveland State University
Washkewicz College of Engineering
Bachelor of Computer Engineering (Co-op)

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Curriculum Sheet (Effective Fall 2018)

First Year								
Fall Semester	Credits	Grade	Spring Semester	Credits	Grade	Summer Semester	Credits	Grade
ENG 100 or ENG 101 College Writing	3		ENG 102 or ESC 102 Writing	3				
MTH 181 Calculus I	4		MTH 182 Calculus	4				
CHM 261 General Chemistry I	3		PHY 243 University Physics I	5				
CHM 266 General Chemistry I Lab	1		ESC 151 C Programming	3				
ESC 100 New Student Orientation	1		ESC 130 Engineering Co-op Orient	1				
ESC 120 Intro to Engineering Design	2							
General Education Elective	3							
<i>Semester Total</i>	<i>17</i>		<i>Semester Total</i>	<i>16</i>		<i>Semester Total</i>		

Second Year								
Fall Semester	Credits	Grade	Spring Semester	Credits	Grade	Summer Semester	Credits	Grade
MTH 220 Discrete Mathematics	3		EEC 384 Digital Systems Lab	2		ESC300 or ESC400 Co-Op	1	
CIS 260 Intro to Programming	4		EEC 311 Electric Circuits II	4				
ESC 250 Diff Eq for Engineers	3		CIS 265 Data Structures & Algorithms	4				
EEC 310 Electric Circuits I	4		PHY 244 Univ Physics II	5				
EEC 383 Digital Systems	3							
<i>Semester Total</i>	<i>17</i>		<i>Semester Total</i>	<i>15</i>		<i>Semester Total</i>	<i>1</i>	

Third Year								
Fall Semester	Credits	Grade	Spring Semester	Credits	Grade	Summer Semester	Credits	Grade
EEC 487 Advanced Digital Systems	3		ESC300 or ESC400 Co-Op	1		ESC 282 Eng Economy	3	
EEC 313 Electronics I	3					General Education Elective	3	
CIS 340 Sys Programming	3					General Education Elective	3	
PHL 215 Engineering Ethics	3							
MTH 284 Matrices for Engineers	2							
<i>Semester Total</i>	<i>14</i>		<i>Semester Total</i>	<i>1</i>		<i>Semester Total</i>	<i>9</i>	

Fourth Year								
Fall Semester	Credits	Grade	Spring Semester	Credits	Grade	Summer Semester	Credits	Grade
ESC300 or ESC400 Co-Op	1		EEC 483 Computer Organization	3		ESC300 or ESC400 Co-Op	1	
			CIS 345 Operation Systems	3				
			ESC 310 Eng Statistics & Probability	3				
			EEC 414 Technical Communication	2				
			EEC 316 Electronics Device Lab	1				
<i>Semester Total</i>	<i>1</i>		<i>Semester Total</i>	<i>12</i>		<i>Semester Total</i>	<i>1</i>	

Fifth Year								
Fall Semester	Credits	Grade	Spring Semester	Credits	Grade	Summer Semester	Credits	Grade
EEC 493 Senior Design I	2		EEC 494 Senior Design II	3				
EEC 488 Hardware-Software Codesign	3		EEC/CIS Tech Elective	3				
CIS 454 Data Comm & Network	3		EEC/CIS Tech Elective	3				
EEC/CIS Tech Elective	3		EEC/CIS Tech Elective	3				
General Education Elective	3							
<i>Semester Total</i>	<i>14</i>		<i>Semester Total</i>	<i>12</i>		<i>Semester Total</i>		

Degree Total: 125 hours (excluding ESC130 and ESC300/400)