

Cleveland State University
Washkewicz College of Engineering
Bachelor of Electrical 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 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		NS/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			PHL 215 Engineering Ethics	3		A&H / WAC
EEC 310 Electric Circuits I	4			EEC 318 Signals & Sys	3		
<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			ESC 310 Eng. Statistics & Probability	3		
EEC 383 Digital Systems	3			EEC 460 Engineering Electromagnetics	4		
EEC 414 Technical Communication	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			ESC 282 Eng Economy	3		SS
EEC 470 Power Electronics	3			EEC Tech Elective	3		
EEC 471 Power Electronics Lab	2			EEC Tech Elective	3		
EEC 493 Senior Design I	2						
General Education Elective	3		A&H	General Education Elective	3		SS
<i>Semester Total</i>	15			<i>Semester Total</i>	15		

Degree Total: 126 hours

(Revisions from Fall 2015: (1) EEC 318 added, (2) Two EEC Tech Electives removed, (3) Sequence of PHL 215 and EEC 414 changed, and (4) Degree total reduced by 2.)

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 Req (2 courses)
A&H = Arts & Humanities Requirement (2 courses)
DIV = Social Diversity Req (2 courses; one US Diversity and one African American Exp.)
WAC/SPAC = Writing/Speaking Across the Curriculum Req (3 courses, one in the major)
CAP = Capstone Requirement

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

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Curriculum Sheet (Effective Fall 2018)

Fall Semester			Spring Semester			Summer Semester		
	Credits	Grade		Credits	Grade		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 II	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 Orientation	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			Spring Semester			Summer Semester		
	Credits	Grade		Credits	Grade		Credits	Grade
PHY 244 University Physics II	5		EEC 311 Electric Circuits II	4		ESC300 or ESC400 Co-Op	1	
MTH 283 Multi Calc for Engineers	2		EEC 312 Circuits Lab	2				
MTH 284 Matrices for Engineers	2		EEC 313 Electronics I	3				
ESC 250 Diff Eq for Engineers	3		EEC 318 Signals & Sys	3				
EEC 310 Electric Circuits I	4		PHL 215 Engineering Ethics	3				
<i>Semester Total</i>	<i>16</i>		<i>Semester Total</i>	<i>15</i>		<i>Semester Total</i>	<i>1</i>	

Third Year								
Fall Semester			Spring Semester			Summer Semester		
	Credits	Grade		Credits	Grade		Credits	Grade
EEC 314 Electronics II	3		ESC300 or ESC400 Co-Op	1		ESC 282 Eng Economy	3	
EEC 315 Electronics Lab	2					General Education Elective	3	
EEC 361 Elec-Mech Energy Con	3					General Education Elective	3	
EEC 383 Digital Systems	3							
EEC 414 Writing in ECE	2							
<i>Semester Total</i>	<i>13</i>		<i>Semester Total</i>	<i>1</i>		<i>Semester Total</i>	<i>9</i>	

Fourth Year								
Fall Semester			Spring Semester			Summer Semester		
	Credits	Grade		Credits	Grade		Credits	Grade
ESC300 or ESC400 Co-Op	1		ESC 310 Eng. Statistics & Probability	3		ESC300 or ESC400 Co-Op	1	
			EEC 384 Digital Labs	2				
			EEC 460 Eng Electromagnetics	4				
			EEC 440 Control	3				
			EEC 441 Control Lab	2				
<i>Semester Total</i>	<i>1</i>		<i>Semester Total</i>	<i>14</i>		<i>Semester Total</i>	<i>1</i>	

Fifth Year								
Fall Semester			Spring Semester			Summer Semester		
	Credits	Grade		Credits	Grade		Credits	Grade
EEC 450 Communications	3		EEC 494 Senior Design II	3				
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							
General Education Elective	3							
<i>Semester Total</i>	<i>15</i>		<i>Semester Total</i>	<i>12</i>		<i>Semester Total</i>		

Degree Total: 126 hours (excluding ESC130 and ESC300/400)