Cleveland State University Washkewicz College of Engineering Bachelor of Electrical Engineering

Name:	I.D. No:
Name:	1.D. 140

Curriculum Sheet (Effective Fall 2020)

			First Ye	ear			
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			M/QL	MTH 182 Calculus	4		M/QL
CHM 261 General Chemistry I			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			DIV				
Semester Total	17			Semester Total	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				EEC 315 Electronics Lab	2		
EEC 312 Circuits Lab				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		
Semester Total	16			Semester Total	15		

			Third Y	ear			
Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed
EEC 314 Electronics II	3			EEC Tech Elective	3		
MTH 284 Matrices for Engineers				EEC 384 Digital Labs	2		
EEC 361 Electro-Mech Energy Conversion				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			DIV	EEC 441 Control Lab	2		
Semester Total	16			Semester Total	17		

			Fourth \	/ear			
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				EEC Tech Elective	3		
EEC 471 Power Electronics Lab	2			EEC Tech Elective	3		
EEC 493 Senior Design I	2			General Education Elective	3		SS
General Education Elective	3		A&H				
Semester Total	15			Semester Total	15		

Degree Total: 126 hours

(Revisions: EEC310 & 312 co-requisite; EEC313 & 315 co-requisite(F2020); EEC318 added; Two EEC Tech Electives removed; Sequence of PHL215 and EEC414 changed; Degree total reduced by 2. (F2015))

Gen Ed Key:

INTRO = Introduction to University Life Requirement (one course)
W/C = Writing/Composition Requirement (two courses; <u>C or better</u> 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)

Name:	I.D. No:

Curriculum Sheet (Effective Fall 2020)

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 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							
Semester Total	17		Semester Total	16		Semester Total	·	

Second Year								
Fall Semester	Credits	Grade	Spring Semester	Credits	Grade	Summer Semester	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 315 Electronics Lab	2				
EEC 312 Circuits Lab	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				
Semester Total	16		Semester Total	15		Semester Total	1	

Third Year								
Fall Semester	Credits	Grade	Spring Semester	Credits	Grade	Summer Semester	Credits	Grade
EEC 314 Electronics II	3		ESC300 or ESC400 Co-Op	1		ESC 282 Eng Economy	3	
MTH 284 Matrices for Engineers	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							
Semester Total	13		Semester Total	1		Semester Total	9	

Fourth Year								
Fall Semester	Credits	Grade	Spring Semester	Credits	Grade	Summer Semester	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				
Semester Total	1		Semester Total	14		Semester Total	1	

Fifth Year										
Fall Semester	Credits	Grade		Spring Semester	Credits	Grade		Summer Semester	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					,				
Semester Total	15			Semester Total	12			Semester Total		
	D	egree T	Το	tal: 126 hours (excluding ESC1	130 an	d ESC3	00	0/400)		