

Cleveland State University
Washkewicz College of Engineering
Bachelor of Electrical Engineering

Name: _____

I.D. No: _____

Curriculum Sheet (Effective Fall 2020)

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 315 Electronics Lab	2		
EEC 312 Circuits Lab	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		
MTH 284 Matrices for Engineers	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		SS
General Education Elective	3		A&H				
<i>Semester Total</i>	15			<i>Semester Total</i>	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; **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

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