Cleveland State University
Washkewicz College of Engineering
Bachelor of Science in Electronics Engineering Technology (EET)
New Fall 2022

EET Degree Map for students immediately eligible for College Writing I and College Chemistry I

First Year

Fall Semester	Credits	Major	Gen. Ed.	Spring Semester	Credits	Major	Gen. Ed.
ENG 100 Intensive Writing or ENG 100 Writing I	3		W/C	ESC 102 Tech. Writing or ENG 102 College Writing II	3		W/C
GET 255 Intro to Robotics & Auto Systems	3	X		EET 207 AC Circuits	3	X	
MTH 165/167 Intensive Precalculus I/Precalculus I	3	X	M	MTH 149 Math for Business Majors II	4	X	M
EET 205 DC Circuits	3	X		PHY 221 College Physics I & Lab	5	X	NS
ESC 100 New Student Orientation	1		INTRO				
ESC 120 Intro to Engineering Design	2	X					
Semester Total	**15**			**Semester Total**	**15**		

Second Year

Fall Semester	Credits	Major	Gen. Ed.	Spring Semester	Credits	Major	Gen. Ed.
EET 201 Fundamentals of Electronics	3	X		EET 202 Fundamentals of Digital Systems	3	X	
GET 240 Programmable Logic Controllers (PLCs)	3	X		CHM 251 College Chemistry I	3	X	NS
General Education*	3	X	A&H	CHM 256 College Chemistry I Lab	1	X	NS&LAB
GET 285 Science of Alternative Energy	3	X		GET 315 Advanced Programming Methods	3	X	NS
Communications Elective (WAC)**	3	X	WAC	Business Elective (WAC)**	3	X	WAC
ESC 130 Engineering Co-op Orientation***	1			General Education*	3	X	SS
*See University Notes Below **Semester Total**	**16**			**One needs to be a WAC **Semester Total**	**16**		

Third Year

Fall Semester	Credits	Major	Gen. Ed.	Spring Semester	Credits	Major	Gen. Ed.
MTT 300 Applied Math	3	X		MTT 301 Advanced Applied Math	3	X	
EET 315 Microprocessors & Digital System Design	3	X		EET 320 Embedded Microprocessor Systems	3	X	
EET 316 Microprocessors & Digital System Design Lab	1	X		EET 330 Advanced Circuit Analysis	3	X	
GET 310 Computer Systems Technology	3	X		EET 430 Application of FPGAs[1] & VHDL[2]	3	X	
PHL 215 Engineering Ethics	3	X	A&H+WAC	Technical Elective	3	X	
General Education Elective*	3		SS				
Semester Total	**16**			**Semester Total**	**15**		

Fourth Year

Fall Semester	Credits	Major	Gen. Ed.	Spring Semester	Credits	Major	Gen. Ed.
EET 410 Power Electronic Systems	3	X		GET 444 HMI[3] Applications for PLCs	3	X	
EET 411 Power Electronics Systems Lab	1	X		EET 440 Feedback Control Systems	3	X	
EET 415 Electronic Circuits, Signals & Systems	3	X		EET 441 Feedback Control Systems Lab	1	X	
EET 416 Electronic Circuits, Signals & Systems Lab	1	X		Technical Elective	3	X	
EET 460 Senior Design A	1	X	CAP	EET 480 Senior Design B	3	X	CAP
Technical Elective	3	X		General Elective Education	3	X	AA DIV
General Elective Education	3		US DIV				
Semester Total	**15**			**Semester Total**	**16**		

Degree Total Hours: 123 or 124 with ESC 130

Assumption: University Requirement of Foreign Language has been met by either successfully completing two (2) years of the same language in high school; or two (2) semesters of the same language in college; or passing CSU's language placement test in reading, writing, and speaking of a second language other than English.

College/Program Notes:
The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of General Education courses, although the M/QL and W/C requirements should be completed during the first year of study. General Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 123 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon other elective choices made, students may not need as many general electives as indicated above or may need additional electives.

University Notes:

General Education Key + Notes	
General Education Electives can be taken in any order except PHL 215 (Engineering Ethics). It must taken after a C or better in ESC 102 or ENG 102 (Tech. Writing or College Writing II.	
Intro = Introduction to University Life Requirement (one course required)	**SS** = Social Sciences Requirement (2 courses required, one of which must be focused outside the US)
W/C = Writing/Composition Requirement (two courses, each C or better required)	**A&H** = Arts & Humanities Requirement (2 courses required, one of which must be focused outside the US)
M = Mathematics (two courses required, each C or better)	**DIV** = Social Diversity Requirement (2 courses required, one US Diversity and one African American Experience)
NS = Natural Sciences (two courses required, one of which must have a lab – NS&LAB)	**CAP** = Capstone Requirement
ESC 100 = waived for transfer students with 60 credits or more	****WAC/SPAC** = Writing/Speaking Across the Curriculum Requirement (3 courses required, one in the major)
*of the SS and A&H courses, at least one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)	*** ESC 130 Introduction to Co-op Orientation is highly recommended, yet not required.
[1] FPGAs = Field Programmable Gate Array	[2] VHDL = Very High Speed Integrate Circuit Hardware Descriptive Language
[3] HMI = Human Machine Interface	