

Cleveland State University
Fenn College of Engineering
Bachelor of Mechanical Engineering Technology

First Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
ENG 101 College Writing	3		W/C	ENG 102 or ESC 102 Technical Writing	3		W/C
MTH 148 Math for Business Majors I	4	X	M/QL	PHY 221 College Physics I	5	X	NS
EET 205 DC Circuits	3	X		ESC 151 or ESC 152 Programming	3	X	
GET 255 Intro to Robotics & Auto Systems	4	X		ESC 120 Into to Engineering Design	2	X	
ESC 100 New Student Orientation	1	X	INTRO				
<i>Semester Total</i>	15			<i>Semester Total</i>	13		

Second Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
MET 201 Statics for Engineering Tech	3	X		MET 202 Dynamics for Engineering Tech	3	X	
CHM 261 General Chemistry I	4	X	NS	MTH 149 Math for Business Majores II	4	X	M/QL
CHM 266 General Chemistry I Lab	1	X	NS	ESC 270 Material Science & Engineering	3	X	
GET 285 Science of Alternative Energy	4	X		MCE 255 Computer Aided Eng Design	4	X	
General Education Elective	3		DIV				
<i>Semester Total</i>	15			<i>Semester Total</i>	14		

Third Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
MTT 300 Applied Math	4	X		MTT 301 Adv Applied Math	4	X	
MET 320 Adv Mechanics of Materials	3	X		MET 320 Adv Dynamics & Vibrations	4	X	
MET 345 Thermodynamics	4	X		MET 350 Fluid Dynamics	3	X	
General Education Elective	3		A&H	MET 351 Thermal Fluids Lab	2	X	
General Education Elective	3		WAC	General Education Elective	3		SS
				General Education Elective	3		WAC
<i>Semester Total</i>	17			<i>Semester Total</i>	19		

Fourth Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
MET 410 Design of Machine Elements	3	X		GET 430 Elect Power, Cont, & Instru	3	X	
MET 411 Mechanical Measurements Lab	1	X		GET 431 Elect Power, Cont, & Instru Lab	1	X	
MET 420 Heat Transfer	3	X		MET 450, GET 455, or MET 460 Sys Design	3	X	
MET 445 Solid Modeling Applications	3	X		MET 480 Senior Design B	3	X	CAP
MET 470 Senior Design A	1	X	CAP	General Education Elective	3		A&H
General Education Elective	3		DIV	General Education Elective	3		SS
General Education Elective	3		WAC				
<i>Semester Total</i>	17			<i>Semester Total</i>	16		

Degree Total: 126 hours

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

College/ Program Notes:

**Two Core Elective/Lab sets should be selected from the following three areas: (Communications: EEC450/EEC451; Controls: EEC440/EEC441; or Power Electronics: EEC470/EEC471)

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 Gen Ed 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 128 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.

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University Notes:

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, one of which must be focused outside the US**)

A&H = Arts & Humanities Requirement (2 courses, one must be focused outside the US**)

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

** of the SS and A&H courses focused outside the US, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)

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