

Cleveland State University
Washkewicz College of Engineering
Bachelor of Science in Mechanical Engineering Technology
NEW FALL 2014

First Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
ENG 101 Writing I	3		W/C	ESC 102 Tech. Writing & Prof. Comm.	3		W/C	
MTH 148 Math for Business Majors I	3	X	M/QL	PHY 221 College Physics I	5	X	NS	
EET 205 DC Circuits	3	X		ESC 120 Intro to Engineering Design	2	X		
GET 255 Intro to Robotics & Auto Sys	3	X		Business Elective	3	X		
ESC 100 Orientation (Not required of transfer students)	1		INTRO	General Education Elective	3	X	USDIV	
<i>Semester Total</i>	<i>13</i>			<i>Semester Total</i>	<i>16</i>			

Second Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	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	3	X	NS	MTH 149 Math for Business Majors II	4	X	M/QL	
CHM 266 General Chemistry I Lab	1	X	NS Lab	ESC 151 C Programming or GET 315 Adv. Prog. Methods	3	X		
GET 285 Science of Alternative Energy	3	X		MCE 181 Computer Aided Eng Lab II	2	X		
MCE 180 Computer Aided Eng Lab I	2	X		Communications Elective	3	X	WAC	
Technical Elective	3	X						
<i>Semester Total</i>	<i>15</i>			<i>Semester Total</i>	<i>15</i>			

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		
MET 320 Adv. Mechanics of Materials	3	X		MET 330 Adv Dynamics & Vibrations	3	X		
MET 345 Thermodynamics	3	X		MET 350 Fluid Mechanics	3	X		
General Education Elective	3		A&H Non-US	MET 351 Thermal Fluids Lab	2	X		
General Education Elective	3		SS	PHL 215 Engineering Ethics	3		A&H WAC	
<i>Semester Total</i>	<i>15</i>			<i>Semester Total</i>	<i>14</i>			

Fourth Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	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	WAC	
MET 420 Heat Transfer	3	X		MET 450 Mechanical System Design or GET 455 Robotic System Design or MET 460 Thermal System 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	Technical Elective	3			
Technical Elective	2	X		General Education Elective	3		SS Non-US	
General Education Elective	3		AA-DIV					
Apply for Spring graduation prior to Sep 9th								
<i>Semester Total</i>	<i>16</i>			<i>Semester Total</i>	<i>16</i>			
Degree Total: 120 hours minimum								

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

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 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.

University Notes:

Gen Ed Key:	SS = Social Sciences Requirement (2 courses, one of which must be focused outside the US**)
INTRO = Introduction to University Life Requirement (one course)	A&H = Arts & Humanities Requirement (2 courses, one must be focused outside the US**)
W/C = Writing/Composition Requirement (two courses; C or better required)	DIV = Social Diversity Requirement (2 courses; one US Diversity and one African American Exp.)
M/QL = Mathematics/Quantitative Literacy Requirement (two courses)	WAC/SPAC = Writing/Speaking Across the Curriculum Requirement (3 courses, one in the major)
NS = Natural Sciences (two courses, one of which must have a lab)	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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