Cleveland State University Fenn College of Engineering Bachelor of Mechanical Engineering

First Year						
Fall Semester	Credits	Major	Gen Ed	Spring Semester Credits Major Ge	en Ed	
ENG 101 College Writing	3		W/C	ESC 102 Tech Writing & Prof Comm 3	W/C	
MTH 181 Calculus I	4		M/QL	MTH 182 Calculus II 4 N	M/QL	
CHM 261/266 General Chemistry I & Lab	5	Х	NS	PHY 241 University Physics I 5 X	NS	
ESC 120 Introduction to Engineering	2	Х		ESC 152 Programming with Matlab 3 X		
ESC 100 New Student Orientation	1		INTRO	ESC 270 Material Science 3 X		
Semester Total	15			Semester Total 18		

Second Year						
Fall Semester	Credits	Major	Gen Ed	Spring Semester Credits Major Gen E		
ESC 250 Differential Equations for Eng	3	Х		MCE 255 Computer-Aided Eng Design 4 x		
PHY 242 University Physics II	5	Х		ESC 350 Lin Algebra & Num Methods 3 X		
ESC 201 Statics	3	Х		ESC 202 Dynamics 3 X		
MCE 250 Material Processing & Metrology	3	Х		ESC 211 Strength of Materials 3 X		
MCE 251 Mat'l Proc & Metrology Lab	1	Х		ESC 315 Electrical Eng Concepts 3 X		
MTH 283 Multivariate Calculus	2	Х				
Semester Total	17			Semester Total 16		

Third Year								
Fall Semester	Credits	Major	Gen Ed	9	Spring Semester	Credits	Major	Gen Ed
MCE 305 Kinematics & Dyn of Machinery	4	Х		N	MCE 324 Heat Transfer	4	Х	
ESC 301 Fluid Mechanics	3	Х		١	MCE 367 Machine Design I	4	Х	
ESC 321 Thermodynamics	3	Х		N	MCE 380 Instrumentation & Meas Lab	3	Х	
MCE 371 Vibrations	4	Х		١	MCE 421 Applied Thermodynamics	4	Х	
ESC 310 Eng Statistics & Probability	3	Х			General Education Elective	3		A&H
Semester Total	17				Semester Total	18		

Fourth Year								
Fall Semester	Credits	Major	Gen Ed		Spring Semester	Credits	Major	Gen Ed
MCE 450 Design Project I	2	Х	WAC CAP		MCE 451 Design Project II	2	Х	WAC CAP
ESC 282 Engineering Economy	3	Х	SS		MCE 4XX M. E. Technical Elective	4	Х	
MCE 441 Intro to Linear Control Theory	4	Х			MCE 4XX M. E. Technical Elective	4	Х	
PHL 215 Engineering Ethics	3	Х	A&H WAC		General Education Elective	3		SS
MCE 48X M.E. Lab Elective	3	Х			General Education Elective	3		DIV
General Education Elective	3		DIV					
Apply for Spring graduation prior to Sep 9th								
Semester Total	18				Semester Total	16		
Degree Total: 135 hours								

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

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.

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University Notes:

Oniversity 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 Af	frica. Latin America. Asia or the Middle East (ALAAME)

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