Cleveland State University Washkewicz College of Engineering

Name	I.D. No.

Mechanical Engineering Curriculum Sheet REVISED 5-26-2020

Fall Semester - Year 1	Cr.	Grade	Spring Semester - Year 1		Cr.	Grade				
ENG 101 College Writing I [W/C]*	3	<u> </u>	ESC 102 Tech. Writing & Prof. Comm.	W/C]*	3	<u> </u>				
MTH 181 Calculus I [M/QL]*	4		MTH 182 Calculus II [M/QL]*	,	4					
CHM 261 General Chemistry I [NS]*	3		ESC 152 Programming with Matlab		3					
CHM 266 General Chemistry I Lab [NS/Lab]*	1		PHY 241 University Physics I [NS]*		5					
ESC 100 New Student Orientation [INTRO]*	1		MCE 181 CAE Lab II		2					
ESC 120 Introduction to Engineering	2		ESC 130 Engineering Co-op Orientation*	**	1					
MCE 180 CAE Lab I	2									
Semester Total	16		Ser	mester Total	17/18					
Fall Semester – Year 2	Cr.	Grade	Spring Semester – Year 2		Cr.	Grade				
ESC 250 Differential Equations for Engineers	3	<u> </u>	ESC 202 Dynamics		3	Gii Gii				
MTH 281 Multivariable Calculus	4		ESC 301 Fluid Mechanics		3					
ESC 201 Statics	3		PHY 242 University Physics II [NS]*		5					
MCE 276 Eng. Matls & Manuf. Processes	3		ESC 211 Strength of Materials		3					
MCE 286 Manufacturing Processes Lab	1		General Education Elective [DIV-US]*		3					
Semester Total	14			mester Total	17					
Fall Semester - Year 3	Cr.	Grade	Spring Semester – Year 3		Cr.	Grade				
ESC 321 Engineering Thermodynamics I	3	<u> </u>	ESC 315 Electrical Engineering Concepts		3					
ESC 350 Lin. Algebra for Engineers	3		MCE 365 Machine Design I		3					
MCE 260 Kinematics	3		MCE 371 Vibrations		3					
MCE 324 Intro to Heat Transfer	3		MCE 421 Applied Thermodynamics		3					
MCE 362 Machine Analysis	3		MCE 481 Thermodynamics Lab		1					
,			General Education Elective [SS]*		3					
Semester Total	15			nester Total	16					
Fall Semester - Year 4	Cr.	Grade	Spring Semester - Year 4		Cr.	Grade				
MCE 441 Intro. to Linear Controls	3		MCE 451 Design Project II [Cap/WAC/SP.	AC]*	3					
MCE 450 Design Project I [Cap/WAC/SPAC]	2		MCE 4XX Mechanical Eng. Elective		3					
ESC 282 Engineering Economy [SS]*	3		MCE 48X Mech. Eng. Lab Elective		3					
MCE 470 Engineering Measurements	3		PHL 215 Engineering Ethics [A&H/WAC]	*	3					
MCE 480 Measurements Lab	1		General Education Elective [DIV-AA]*		3					
MCE 4XX Mechanical Eng. Elective	3		General Education Elective [A&H]*		3					
Semester Total	15		Ser .	mester Total	18					
Degree Total: 128 (Excluding ESC 130 required f University Notes:	or co-q	p)								
*Gen Ed Key:			SS = Social Sciences Requir	rement (2 cours	ses)**					
INTRO = New student orientation, not required for trar	ofor ctu	dents	A&H = Arts & Humanities Requnt (2 courses)**							
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W/C = Writing/Composition Requirement (two courses	; C or t	etter required)	DIV = Social Diversity Requand one African American E		, one U	S Diversity,				
M/QL = Mathematics/Quantitative Literacy Requirement (two courses)			WAC/SPAC = Writing/Spea Requnt (3 courses, one in the	aking Across th	ie Curri	culum				
NS = Natural Sciences (two courses, one of which mus	t have a	lab)	CAP = Capstone Requireme							
** Of the SS and A&H courses, at least one must be for										
*** Required for the Engineering Co-op program only										
This information is provided solely for the convenie										
incurred. This publication is neither a contract nor a information, the University reserves the right to male										
or any other subject addressed herein.	ve a idi	gwat arry tillic	with respect to course one migs, degree i	Man entents	JGI VICE	~ pi ovideu,				
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Date_____

Advisor_____

Cleveland State University Washkewicz College of Engineering

Name	I.D. No.

Mechanical Engineering Co-op Curriculum Sheet REVISED 4-4-2016

<u>Year i Faii Semester</u>	Cr.	Grade	Spring Semester	Cr.	Grade	Summer Semester	
ENG 101 College Writing I [W/C]*	3		ESC 102 Tech. Writing & Prof. Comm.	3		Work or school	
MTH 191 Coloring L DM/OL1*	4		[W/C]* MTH 192 Colombia H. FM/OLI*	4			
MTH 181 Calculus I [M/QL]* CHM 261 General Chemistry I [NS]*	4		MTH 182 Calculus II [M/QL]* ESC 152 Programming with Matlab	4			
CHM 266 General Chemistry I Lab	1		PHY 241 University Physics I [NS]*	5			
[NS/Lab]*	1		THE 241 CHIVEISITY I HYSICS I [NO]	3			
ESC 100 New Student Orientation	1		MCE 181 CAE Lab II	2			
[INTRO]*							
ESC 120 Introduction to Engineering	2		ESC 130 Engineering Co-op Orientation	1			
MCE 180 CAE Lab I	2						
Semester Total	16		Semester Total	18			_
Year 2 Fall Semester	<u>Cr.</u>	Grade	Spring Semester	<u>Cr.</u>	Grade	Summer Semester	<u>Cr</u>
ESC 250 Differential Equations for	3		ESC 202 Dynamics	3		ESC 400 Co-op**	1
Engineers MTH 281 Multivariable Coloulus	4		ESC 201 Elvid Machanica	2		1	
MTH 281 Multivariable Calculus ESC 201 Statics	4		ESC 301 Fluid Mechanics	3 5			
	3		PHY 242 University Physics II [NS]* ESC 211 Strength of Materials	3			
MCE 276 Eng. Matls & Manuf. Processes	3		ESC 211 Strength of Materials	3			
MCE 286 Manuf. Processes Lab	1		General Education Elective [DIV-US]*	3			
Semester Total	14		Semester Total	17			
Year 3 Fall Semester	Cr.	Grade	Spring Semester.	Cr.	Grade	Summer Semester	<u>Cr</u>
ESC 321 Engineering	3					Gen Ed Elective	
Thermodynamics I			ESC 300 Co-op**	1		Gen Ed Elective	3
ESC 350 Lin. Algebra for Engineers	3						3
MCE 260 Kinematics	3						
MCE 324 Intro to Heat Transfer	3						
MCE 362 Machine Analysis	3						
Semester Total	15						
Year 4 Fall Semester	Cr.	Grade	Spring Semester	Cr.	Grade	Summer Semester	Cr
ESC 300 Co-op**	1		ESC 315 Electrical Engineering Concepts	3		ESC 400 Co-op**	1
1			MCE 365 Machine Design I	3		1	
			MCE 371 Vibrations	3			
			MCE 421 Applied Thermodynamics	3			
			MCE 481 Thermodynamics Lab	1			
			General Education Elective [SS]*	3			
	_		Semester Total	16			
Year 5 Fall Semester	<u>Cr.</u>	Grade	Spring Semester	<u>Cr.</u>	Grade		
MCE 441 Intro. to Linear Controls	3		MCE 451 Design Project II	3			
MCE 450 Desire Desired I	2		[Cap/WAC/SPAC]*	2			
MCE 450 Design Project I [Cap/WAC/SPAC]	2		MCE 4XX Mechanical Eng. Elective	3			
ESC 282 Engineering Economy [SS]*	3		MCE 48X Mech. Eng. Lab Elective	3			
MCE 470 Engineering Measurements	3		PHL 215 Engineering Ethics	3			
Wiel 470 Engineering Wedsdrements	3		[A&H/WAC]*	3			
MCE 480 Measurements Lab	1		General Education Elective [DIV-AA]*	3			
MCE 4XX Mechanical Eng. Elective	3		General Education Elective [A&H]*	3			
Semester Total	15		Semester Total	18			
		courses) –	SEE GEN ED KEY ON REVERSE SIDE	-			
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Advisor			Date				
AUVISUI			Datc		_		