## **MECHANICAL ENGINEERING**

Department of Mechanical Engineering



## Last update: 10/11/2023

## Sample Four-Year Plan

First Year								
1st S	Lst Semester		2nd 9	2nd Semester				
ALL	CHEM:1110 Principles of Chemistry I	4	F/S	ENGR:1300 Intro to Engineering Computing	3			
	(P: ALEKS score $\geq$ 55 or MPT Level 3 score $\geq$ 9)			(C: MATH:1550)				
F	ENGR:1000 Engineering Success for First-Year Students	1	ALL	MATH 1560 Math II: Multivariable Calculus	4			
	(First semester standing)			(P: MATH:1550 with a minimum grade of C- )				
F	ENGR:1100 Intro to Engineering Problem Solving	3	ALL	MATH:2550 Math III: Matrix Algebra	2			
				(P: MATH:1550 or MATH:1560)				
F/S	MATH:1550 Math I: Single Variable Calculus	4	ALL	PHYS:1611 Introductory Physics I / Lab	4			
	(P: ALEKS score $\geq$ 75 or MPT Level 3 score $\geq$ 9)			(C: MATH:1550)				
ALL	RHET:1030 Rhetoric	4	ALL	General Education Course #1	3			
		16			16			

	Second Year							
3rd Semester		sh	4th Semester	sh				
ALL	ENGR:2110 Statics	2	ALL ENGR:2710 Dynamics	3				
	(P: MATH:1550; C: MATH:1560 & PHYS:1611)		(P: ENGR:2110 & MATH:1550)					
ALL	ENGR:2120 Electrical Circuits	3	ALL ENGR:2720 Materials Science	3				
	(C: MATH:2560)		(P: CHEM:1110; C: MATH:1550)					
ALL	ENGR:2130 Thermodynamics	3	ALL ENGR:2750 Mechanics of Deformable Bodies	3				
	(P: CHEM:1110 & PHYS:1611; C: MATH:1560)		(P: ENGR:2110; C: MATH:2560)					
ALL	MATH:2560 Math IV: Differential Equations	3	S ME:2200 Introduction to Mechanical Engineering Design	2				
	(P: MATH:1560 & MATH:2550)		(P: ENGR:1100)					
F	ME:2020 Mechanical Engineering Program Seminar	0	F/S ME:2300 Manufacturing Processes	3				
	(P: ME:3091)		OR (C: ENGR:2720 & (ME:2200 or BME:2710)					
F/S	PHYS:1612 Introductory Physics II / Lab	4	ALL STAT:2020 Probabilty & Statistics For Engr & Phys Sci	3				
	(P: PHYS:1611; C: MATH:1560)		(P: MATH:1560)					
ALL	General Education Course #2	3	F/S Elective #1: Focus Area, Minor, Certificate, etc.	3				
		18		17				

	Third Year						
5th Semester		sh	6th	6th Semester			
F/S	ENGR:2510 Fluid Mechanics (P: MATH:2560 & ENGR:2710; C: ENGR:2130)	4	S	ME:3045 Heat Transfer (P: ENGR:2510, MATH:3550 & ENGR:1300)	3		
F/S	MATH:3550 Engineering Math V: Vector Calculus (P: MATH:1560 & MATH:2550; C: MATH:2560)	3	S	ME:3052 Mechanical Systems (P: ENGR:2750; C: ENGR:2720 & ME:2300 & STAT:2020)	4		
F	ME:3091 Professional Seminar: Mechanical Engineering	0	F/S	Elective #2: Focus Area, Minor, Certificate, etc.	3		
F	ME:3351 Engineering Instrumentation (P: ENGR:2120 & PHYS:1612)	2	F/S	Elective #3: Focus Area, Minor, Certificate, etc.	3		
F	ME:3600 Control of Mechanical Engineering Systems (P: ENGR:2710 & MATH:2560)	3	ALL	General Education Course #3	3		
ALL	STAT:2020 Probabilty & Statistics For Engr & Phys Sci (P: MATH:1560)	3	OR				
F/S	ME:2300 Manufacturing Processes (C: ENGR:2720 & (ME:2200 or BME:2710)	3					
		15			16		

		F	ourth Yea	r		
7th S	7th Semester		8th Semester		emester	sh
F	ME:4048 Energy Systems Design (P: ME:3045)	4		F/S	Elective #6: Focus Area, Minor, Certificate, etc.	3
F	ME:4055 Mechanical Systems Design (P: ENGR:2710 & ME:3052)	3		F/S	Elective #7: Focus Area, Minor, Certificate, etc.	3
F/S	Elective #4: Focus Area, Minor, Certificate, etc.	3	OR	F/S	ME:4080 Experimental Engineering (P: ME:3351, ME:3045 & ME:3052)	4
F/S	ME:4080 Experimental Engineering (P: ME:3351. ME:3045 & ME:3052)	4		F/S	Elective #4: Focus Area, Minor, Certificate, etc.	3
F/S	Elective #5: Focus Area, Minor, Certificate, etc.	3	OR	F/S	ME:4086 Mechanical Engineering Design Project (C: ME:4048 or ME:4055)	3
F/S	ME:4086 Mechanical Engineering Design Project (C: ME:4048 or ME:4055)	3		F/S	Elective #5: Focus Area, Minor, Certificate, etc.	3
ALL	General Education Course #4	3		ALL	General Education Course #5	3
		16/17				15/16