

BS Degree in Mechanical Engineering				Effective Fall 2025		
Semester 1 (Fall)						
Course	Credits	Title	Min Grade	Pre-Req	Co-Req	Sem
MATH 1170	4	Calculus I	C-	MATH 1147 or Equiv		
CHEM 1111	4	General Chemistry I		MATH 1147 or Equiv		
CHEM 1111L	1	General Chemistry Lab		CHEM 1111	CHEM 1111	
ENGL 1101	3	English Composition	C-	Test Score or Equiv.		
Gen Ed	3	Objective 4 - Humanities				
	15					
Semester 2 (Spring)						
Course	Credits	Title	Credits	Pre-Req	Co-Req	Sem
MATH 1175	4	Calculus II	C-	MATH 1170		
PHYS 2211	4	Engineering Physics		MATH 1175	MATH 1175	
ME 1165	2	Structured Programming	C-	MATH 1170		F,S
ME 1105	2	Intro to Solid Modeling	C-	MATH 1147 or Equiv		F,S
ENGL 1102	3	Critical Reading and Writing	C-	ENGL 1101 or Equiv		
	15					
Semester 3 (Fall)						
Course	Credits	Title	Credits	Pre-Req	Co-Req	Sem
MATH 2275	4	Calculus III		MATH 1175		
PHYS 2212	4	Engineering Physics		PHYS 2211		
CE/ME 2210	3	Engineering Statics		PHYS 2211, MATH 1175, ME/CE 1105	PHYS 2211, MATH 1175, ME/CE 1105	F,S
COMM 101	3	Principles of Speech				
	14					
Semester 4 (Spring)						
Course	Credits	Title	Credits	Pre-Req	Co-Req	Sem
MATH 3360	3	Differential Equations		MATH 1175	MATH 2240 or MATH 2275 Recommended	
MATH 2240	3	Linear Algebra		MATH 1170		
ME/CE 3350	3	Mechanics of Materials		CE/ME 2210, PHYS 2211, ME/CE 1105, MATH 1175		F,S
ME 2220	3	Engineering Dynamics		CE/ME 2210, PHYS 2211, ME/CE 1105, MATH 1175		F,S
Gen Ed	3	Objective 4				
	15					
Semester 5 (Fall)						
Course	Credits	Title	Credits	Pre-Req	Co-Req	Sem
ME 3307	3	Thermodynamics		ME 2220, MATH 2275	MATH 2275	F,S
ME 3320	3	Kinematics		ME 1165, ME 2220, MATH 2240, MATH 2275	MATH 2275	F
ME 3323	3	Machine Design		ME 3322, ME/CE 3350, ME 3320	ME 3322, ME3320	F
ME 3322	3	ME Materials		CHEM 1111, CHEM 1111L, ME/CE 2210, ME/CE 3350, MATH 1175	ME/CE 3350	F,S
Gen Ed	3	Objective 7 or 8				
	15					
Semester 6 (Spring)						
Course	Credits	Title	Credits	Pre-Req	Co-Req	Sem
ME 3341	3	Fluid Mechanics		ME 2220, MATH 3360		S
ME 3325	3	Machine Design II		ME 3320, ME 3323		S
ME 4476	3	Heat Transfer		ME 3307, ME 3341	ME 3341	S
ME 4406	2	Measurement Systems Lab		MATH 3360, PHYS 2212, and ME/CE 2220 or Instructor Approval		S
CE 3360	2	Engineering Economics or CE 3361		CE/ME 2210		F,S
Gen Ed	3	Objective 6				
	16					
Semester 7 (Fall)						
Course	Credits	Title	Credits	Pre-Req	Co-Req	Sem
ME 4496A	3	Project Design I		CE 3360 or CE 3361 and approved Application	CE 3360 or CE 3361	F
ME 4443	1	Thermal Fluids Lab		ME 3307, ME 3341, ME 4476		F
ME 4465	3	Thermal Fluid Systems Design		ME 3307, ME 3341, ME 4476		F
ME 4440	3	Mechanical Vibrations		ME 3323, MATH 3360, MATH 2275	ME 3323	F
ME Elect	3					F
Gen Ed	3	Objective 6				
	16					
Semester 8 (Spring)						
Course	Credits	Title	Credits	Pre-Req	Co-Req	Sem
ME 4496B	3	Project Design II		ME 4496A		S
ME 4473	3	ME Controls		ME/CE 2220, PHYS 2212, MATH 3360, ME 4440, ME 4406	ME 4406	S
ME 4463	3	Mechanical Systems Design		ME 3320, ME 3323, ME 3325, ME 4440		S
ME Elect	3					S
Gen Ed	3	Objective 9 - Cultural Diversity		ME 1150 Recommended		
	15					
Total Credits 121 121-122 Credits needed for Graduation						
Revised 5-12-25						