

BS Degree in Mechanical Engineering				Effective Fall 2024				
Semester 1 (Fall)								
Course	Credits	Title	Min Grade	Pre-Req	Co-Req	Sem		
MATH 1170	4	Calculus 1	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	
ECE 2205	3	Principles of Electrica Circuits		MATH 1175, PHYS 2212	MATH 1175, PHYS 2212		F	
COMM 101	3	Principles of Speech						
	17							
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	1	Measurement Systems Lab		MATH 3360, ECE 2205			S	
CE 3360	2	Engineering Economics or CE 3361		CE/ME 2210			F,S	
Gen Ed	3	Objective 6						
	15							
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 2220, ECE 2205, PHYS 2212, MATH 3360, ME 4440			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						
	15							
Total Credits	123	123 Credits needed for Graduation						
Revised 5-20-24								