

MECHANICAL ENGINEERING (ME)
Program of Study — Catalog Year 2026-2027

Fall Semester					Spring Semester					
	Terms Offered	Course	Course Title	Hrs.		Terms Offered	Course	Course Title	Hrs.	
Freshman	F	EGR 200 ¹	Introduction to Engineering	3	Sp	EGR 194	Engineering Explorations		1	
	F, Sp, Su	EH 101	English Composition I	3	F, Sp	EGR 150	Computer Methods in Engineering		3	
	F, Sp, Su	MA 125/L	Calculus I/Lab	4	F, Sp	EGR 103	Computer-Aided Graphics & Design		3	
	F, Sp, Su	CH 115/R/116	General Chemistry I/Lab	4	F, Sp, Su	MA 126	Calculus II		4	
						F, Sp, Su	PH 221/R/L	General Physics I and Lab		4
	Total Credits				14	Total Credits				15
Sophomore	F, Sp, Su	CE 210	Statics	3	F, Sp, Su	ME 215/R	Dynamics		3	
	F, Sp	EGR 265 ²	Math Tools for Engineering Problem Solving	4	F, Sp	CE 220	Mechanics of Solids		3	
	F	ME 241/R	Thermodynamics I	3	F, Sp	CE 221	Mechanics of Solids Lab		1	
	F, Sp, Su	PH 222/R/L	General Physics II and Lab	4	Sp	ME 242	Thermodynamics II		3	
	F, Sp, Su	CH 117/R	General Chemistry II	3	F, Sp, Su	EH 102	English Composition II		3	
						F, Sp, Su	MA/SCI ^{2,3}	Math/Science Elective		3
Total Credits				17	Total Credits				16	
Junior	F	ME 321	Introduction to Fluid Mechanics	3	Sp	ME 322	Introduction to Heat Transfer		3	
	F	ME 364	Linear Algebra and Numerical Methods	3	Sp	ME 360	Intro to Mechatronic Systems Engineering		3	
	F	ME 370	Kinematics and Dynamics of Machinery	3	Sp	ME 361/L	Thermo-Fluids Systems and Lab		3	
	F, Sp	MSE 280	Engineering Materials	3	Sp	ME 371	Machine Design		3	
	F, Sp, Su	Blazer Core ⁴	Reasoning	3	F, Sp, Su	EE 312	Electrical Systems		3	
					F, Sp, Su	Blazer Core ⁴	Creative Arts		3	
Total Credits				15	Total Credits				18	
Senior	F	MSE 401	Manufacturing Processes	3	Sp	ME 499	Capstone Design Project II		3	
	F	ME 461/L	Mechanical Systems and Lab	3	Sp	CE 395	Engineering Economics		3	
	F	ME 498	Capstone Design Project I	3	F, Sp	ME 4XX ⁵	Mechanical Engineering Elective (2)		3	
	F, Sp	ME 4XX ⁵	Mechanical Engineering Elective (1)	3	F, Sp	ME 4XX ⁵	Mechanical Engineering Elective (3)		3	
	F, Sp, Su	Blazer Core ^{4,6}	City as a Classroom	3	F, Sp, Su	Blazer Core ⁴	History & Meaning		3	
	F, Sp, Su	Blazer Core ⁴	Humans & Their Societies	3						
Total Credits				18	Total Credits				15	

1 EGR 200 preferred; other FYE courses accepted

2 May substitute MA 227 and MA 252 for EGR 265 and one approved science or mathematics elective

3 Math/Science Elective chosen from approved list: BY 101, BY 108, BY 123, CH 235, ES 101, MA 180, MA 360, MA 361, MA 444, MA 445, MA 453, PH 351

4 Please refer to the Blazer Core as specified for Engineering majors

5 One ME elective in each of these three areas is required: thermal-fluids, mechanical systems, and computer-aided engineering

6 CE 280 preferred; other CAC courses accepted

- (1) Mechanical systems electives include: ME 430, ME 431, ME 432, ME 464, ME 475, ME 477, ME 478 and ME 480

(2) Thermal fluids electives include: ME 411, ME 421, ME 445, ME 447, ME 449, ME 454, ME 455, ME 456

(3) Electives with computer-aided engineering content include: ME 421, ME 456, ME 464

