



Degree Map

CATALOG YEAR: 2026-2027

Degree: BSME

MAJOR: Mechanical Engineering
Concentration: Vehicle Engineering

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction.

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 17	
ME 1010 ME Fundamentals I	3	ME 1020 ME Fundamentals II	3
MATH 1910 Calculus I	4	MATH 1920 Calculus II	4
CHEM 1110 Gen Chemistry I	4	PHYS 2110 Physics I	4
ENGL 1010 English Composition I	3	ENGL 1020 English Composition II	3
Humanities & Cultural Expression Elective	3	Financial Literacy or Digital Literacy Elective (FIN 2000, CSC2220, or CSC 2570)	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SECOND YEAR			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 17	
ME 2910 Prof. & Ethics	1	ME 2330 Dynamics	3
CEE 2110 Statics	3	ME 2210 Thermodynamics	3
MATH 2010 Intro to Linear Algebra	3	ECE 2050 Circuits & Electronics I	4
MATH 2120 Diff. Equations	3	MATH 2110 Calculus III	4
PHYS 2120 Physics II	4	COMM 2025 or PC 2500 Communication	3
ENGL 2130, 2235, or 2330 Lit.	3		
Course	Cr. Hrs.	Course	Cr. Hrs.
THIRD YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
ME 3001 ME Analysis	3	ME 3610 Dynamics of Machinery	3
ME 3010 Materials & Processes	3	ME 3710 Heat Transfer	3
ME 3720 Fluid Mechanics	3	ME 3020 Machine Design	3
CEE 3110 Mechanics of Materials	3	VE 3500 Sensors, Transducers, & Instrumentation	3
VE 3400 Intro to Auto Systems	3	MATH 3470 Intro Probability & Statistics	3
Course	Cr. Hrs.	Course	Cr. Hrs.
FOURTH YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
VE 4100 Senior Design I - ME	3	VE 4200 Senior Design II - ME	3
ME 3050 System Dynamics	3	VE Elective - ME 4060 Machine Vibrations or ME 4180 Finite Elements or ME 4380 Intro Data Acq or ME 4930 Noise Control or VE 4500 Reliability & Quality	3
ME 3320 Experimental Methods II	3	VE Core -VE 4050 Autonomous Vehicles or ME 4630 IC Engines or ME 4810 Automatic Controls	3
ME 4020 Applied Machine Design or ME 4720 Thermal Design	3	VE Core - VE 4050 Autonomous Vehicles or ME 4630 IC Engines or ME 4810 Automatic Controls	3
Social & Behavior Science Elective	3	Social & Behavior Science Elective	3