



Degree Map

CATALOG YEAR: 2023-2024

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: 16		Semester: Spring Total Credit Hours: 16	
ENGR 1110 Graphics	2	ENGL 1020 English Composition II	3
MATH 1910 Calculus 1	4	ENGR 1120 Programming	2
CHEM 1110 Gen Chemistry	4	MATH 1920 Calculus II	4
ENGL 1010 English Composition I	3	PHYS 2110 Physics I	4
Humanities/Fine Arts Elective	3	Humanities/Fine Arts Elective	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 16	
ME 2910 Prof. & Ethics	1	ME 2330 Dynamics	3
CEE 2110 Statics	3	ME 3010 Materials	3
MATH 2010 Matrix Algebra	3	ECE 2850 Principles of Electric Circuits	3
MATH 2120 Diff. Equations	3	MATH 2110 Calculus III	4
PHYS 2120 Physics II	4	COMM 2025 or PC 2500 Communication	3
ENGL 2130, 2230, or 2330 Lit.	3		
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 18	
ME 3001 ME Analysis	3	ME 3220 Thermodynamics II	3
ME 3210 Thermo I	3	ME 3610 ME Dynamics of Mach	3
ME 3720 Fluid Mechanics	3	ME 3710 Heat Transfer	3
CEE 3110 Mech of Materials	3	ME 4010 Machine Design	3
VE 3400 Intro to Auto Systems	3	VE 3500 Sensors, Transducers, and Instr	3
		MATH 3470 Intro Probability & Statistics	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
Social Behavior Sc. Elective	3	VE 4200 Senior Design II	3
ME 3050 Dynamic Modeling & Controls	3	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 3060 Dynamic Modeling & Controls Lab	1	ME 4050 Autonomous Vehicles or ME 4630 IC Engines or ME 4810 Automatic Controls	3
ME 4020 Applied Mac Design or ME 4720 Thermal Design	3	ME 4050 Autonomous Vehicles or ME 4630 IC Engines or ME 4810 Automatic Controls	3
ME 4751 Energy Systems Lab	2	Social Behavior Sc. Elective	3
VE 4100 Senior Design I	3		