



Degree Map

CATALOG YEAR: 2024-2025

Degree: BSME

MAJOR: Mechanical Engineering
Concentration: Mechatronics & Robotics

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: 18	
ME 1010 ME Fundamentals I	3	CSC 1300 Prob. Solving Prog	4
MATH 1910 Calculus 1	4	MATH 1920 Calculus II	4
CHEM 1110 Gen Chemistry	4	PHYS 2110 Physics I	4
ENGL 1010 English Composition I	3	ENGL 1020 Writing II	3
Humanities/Fine Arts Elective	3	MATH 2010 Matrix Algebra	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 15	
CEE 2110 Statics	3	ME 2330 Dynamics	3
ECE 2140 Intro to Digital Sys	4	ME 2910 Prof. & Ethics	1
MATH 2120 Diff. Equations	3	ME 2210 Thermodynamics	3
PHYS 2120 Physics II	4	ECE 2050 Circuits & Electronics	4
ENGL 2130, 2235, or 2330 Lit.	3	MATH 2110 Calculus III	4
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 16	
ME 3010 Materials	3	ME 3050 System Dynamics	3
ME 3310 Experimental Methods I	3	ME 3320 Experimental Methods II	3
ME 3001 ME Analysis	3	ECE 3270 PLC Lab	1
ME 3720 Fluid Mechanics	3	ME 3710 Heat Transfer	3
CEE 3110 Mech of Materials	3	ME 3610 ME Dynamics of Mach	3
		ME 3020 Machine Design	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
ME 4416 Senior Design I – Mech & Robot	3	ME 4426 Senior Design II - Mech & Robot	3
ME 4370 Mechatronics	3	ME 4390 Machine Learning in ME	3
ME 4140 Robotics	3	ECE 3260 and ECE 3210 or ME 4810	3
Social Behavior Sc. Elective	3	Social Behavior Sc. Elective	3
COMM 2025 or PC 2500 Communication	3	Humanities/Fine Arts Elective	3