



Degree Map

CATALOG YEAR: 2023-2024

Degree: BSME

MAJOR: Mechanical Engineering
Concentration: Mechatronics

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: 18	
ENGR 1110 Graphics	2	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: 18	
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 3001 ME Analysis	3
PHYS 2120 Physics II	4	ECE 2050 Principles of Electric Circuits	4
ENGL 2130, 2230, or 2330 Lit.	3	MATH 2110 Calculus III	4
		COMM 2025 or PC 2500 Communication	3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 14	
ME 3010 Materials	3	ME 3050 DMC	3
ME 3023 Measurements	3	ME 3060 DMC Lab	1
ME 3210 Thermo I	3	ECE 3720 PLC Lab	1
ME 3610 ME Dynamics of Mach	3	ME 3710 Heat Transfer	3
CEE 3110 Mech of Materials	3	ME 3720 Fluid Mechanics	3
		ME 4010 Machine Design	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 18	
ME 4410 Senior Design I	3	ME 4370 Mechatronics	3
ME 4020 Applied Mac Design or ME 4720 Thermal Design	3	ME 4420 Senior Design II	3
ME 4751 Energy Sys Lab	2	ECE 3260 and ECE 3210 or ME 4810	3
ECE 3130 Microprocessors	4	Social Behavior Sc. Elective	3
Social Behavior Sc. Elective	3	Humanities/Fine Arts Elective	3
		Social Behavior Sc. Elective	3