



**Degree Map**

**CATALOG YEAR: 2021-2022**

**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.
<b>FIRST YEAR</b>			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 15	
ENGL 1010 Writing	3	ENGL 1020 Writing II	3
Humanities/Fine Arts Elective	3	MATH 1920 Calculus II	4
MATH 1910 Calculus 1	4	PHYS 2110 Physics I	4
CHEM 1110 Gen Chemistry	4	CSC 1300 Prob. Solving Prog	4
ENGR 1110 Graphics	2		
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>SOPHOMORE YEAR</b>			
Semester: Fall Total Credit Hours: 18		Semester: Spring Total Credit Hours: 18	
ENGL 2130, 2230, or 2330 Lit.	3	COMM 2025 or PC 2500 Communication	3
MATH 2120 Diff. Equations	3	MATH 2110 Calculus III	4
MATH 2010 Matrix Algebra	3	ECE 2850 Principles of Electric Circuits	3
PHYS 2119 Physics II w/o Lab	3	ECE 2011 EE Lab I	1
CEE 2110 Statics	3	ME 3001 ME Analysis	3
ECE 2110 Intro to Digital Sys	3	ME 2330 Dynamics	3
		ME 2910 Prof. & Ethics	1
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>JUNIOR YEAR</b>			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 16	
ME 3010 Materials	3	ME 3050 DMC	3
ME 3023 Measurements	3	ME 3060 DMC Lab	1
ME 3210 Thermo I	3	ME 3710 Heat Transfer	3
CEE 3110 Mech of Materials	3	ME 3720 Fluid Mechanics	3
ME 3610 ME Dynamics of Mach	3	ME 3220 Thermodynamics II	3
		ME 4010 Machine Design	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>SENIOR YEAR</b>			
Semester: Fall Total Credit Hours: 18		Semester: Spring Total Credit Hours: 12	
Social Behavior Sc. Elective	3	Social Behavior Sc. Elective	3
Humanities/Fine Arts Elective	3	ECE 3120 or ME 480	3
ME 4751 Energy Sys Lab	2	ME 4370 Mechatronics	3
ECE 3130 Microprocessors	4	ME 4420 Senior Design II	3
ME 4410 Senior Design I	3		
ME 4020 Applied Mac Design or ME 4720 Thermal Design	3		