

# Mechanical Engineering B.S.M.E.

4- Year Plan of Study

Items marked with a ☒ are critical for the student to remain on track for graduation.

## Notes

The Plan of Study is a static review of the degree. Connect with your major advisor for a personalized path toward graduation.

### Potential Entry Level Job Titles:

Aeronautics, Aerospace and Propulsion Engineer ◦ Automotive, Fuel Cells and Transportation Engineer ◦ Propulsion Systems, Electronic Systems, Power Generation Engineer ◦ Heating, Ventilation, and Air Conditioning Engineer ◦ Structures and Machinery Design Engineer ◦ Micro and Nano Materials, Semiconductors Engineer

### Potential Entry Level Salary Range:

\$50,000 - \$128,000

## Semester 1 - Fall

Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	CHM 2045 - General Chemistry I	3
<input type="checkbox"/>	CHM 2045L - General Chemistry I Lab	1
<input checked="" type="checkbox"/>	EGN 3000 - Foundations of Engineering	0
<input type="checkbox"/>	EGN 3000L - Foundations of Engineering Lab	3
<input type="checkbox"/>	ENC 1101 - Composition I	3
<input checked="" type="checkbox"/>	MAC 2311 - Calculus I	4
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

## Semester 2 - Spring

Crit	Course/Requirement	Credits
<input type="checkbox"/>	ENC 1102 - Composition II	3
<input checked="" type="checkbox"/>	MAC 2312 - Calculus II	4
<input checked="" type="checkbox"/>	PHY 2048 - General Physics I	3
<input type="checkbox"/>	PHY 2048L - General Physics I Laboratory	1
<input type="checkbox"/>	Gen-Ed State Humanities (SGEH)	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 3 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	Consider pursuing an Education Abroad, Internship, Community Engagement, or Research Experience in the Summer term.	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 4 - Fall		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	ECO 2023 <b>OR</b> EGN 2615 <b>OR</b> FIN 2100	3
<input checked="" type="checkbox"/>	EGN 3311 - Statics	3
<input checked="" type="checkbox"/>	MAC 2313 - Calculus III	4
<input checked="" type="checkbox"/>	PHY 2049 - General Physics II	3
<input type="checkbox"/>	PHY 2049L - General Physics II Laboratory	1
<input type="checkbox"/>	Apply for Progression to Upper Division	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 5 - Spring		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	AMH 2010 <b>OR</b> AMH 2020 <b>OR</b> POS 2041 (SCIV/SGES)	3
<input checked="" type="checkbox"/>	EGN 3321 - Dynamics	3
<input checked="" type="checkbox"/>	EGN 3343 - Thermodynamics I	3
<input checked="" type="checkbox"/>	EML 3500 - Mechanics of Solids	3
<input checked="" type="checkbox"/>	MAP 2302 - Differential Equations	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 6 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	EGN 3365 - Materials Engineering I	3
<input checked="" type="checkbox"/>	EML 3022 - Computer Aided Design & Engr	3
<input checked="" type="checkbox"/>	EML 3035 - Programming Concepts Mech Engr	3
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 7 - Fall		
Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	EGN 2440 <b>OR</b> STA 2023	3
<input checked="" type="checkbox"/>	EML 3041 - Computational Methods	3
<input checked="" type="checkbox"/>	EML 3262 - Kinematics/Dynamics-Machinery	3
<input checked="" type="checkbox"/>	EML 3701 - Fluid Systems	3
<input checked="" type="checkbox"/>	EML 4325 - Mech Manufacturing Processes	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 8 - Spring		
Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	EGN 3373 <b>OR</b> EML 3390	3
<input checked="" type="checkbox"/>	EML 3303 - Mechanical Engineering Lab I	3
<input type="checkbox"/>	EML 4123 - Heat Transfer	3
<input checked="" type="checkbox"/>	EML 4501 - Machine Design	3
<input type="checkbox"/>	Gen-Ed USF Humanities (UGEH)	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 9 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 10 - Fall		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	EML 4220 - Vibrations	3
<input type="checkbox"/>	EML 4302 - Mechanical Engineering Lab II	3
<input type="checkbox"/>	EML 4312 - Mechanical Controls	3
<input checked="" type="checkbox"/>	EML 4550 - Capstone Design I	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 11 - Spring		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	EGN 4930 - Special Topics in Engineering	0
<input type="checkbox"/>	EML 4551 - Capstone Design II	3
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>	Apply for Graduation	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		