

**Bachelor of Science in Mechanical Engineering
2019-2020**

Freshman Year

Fall Semester	Hrs	Spring Semester	Hrs
CHEM 1011, Lab. for General Chemistry I	1		
CHEM 1013, General Chemistry I	3	CHEM 1023, General Chemistry II	3
ENG 1003, Composition I	3	ENG 1013, Composition II	3
ENGR 1402, Concepts of Engineering	2	ENGR 1412, Software Applications for Engineers	2
MATH 2204, Calculus I	4	MATH 2214, Calculus II	4
COMS 1203, Oral Communication	3	PHYS 2034, University Physics I	4
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Sophomore Year

Fall Semester	Hrs	Spring Semester	Hrs
ENGR 2401, Applied Engr. Statistics	1	ENGR 2411, Lab. for Mechanics of Materials	1
ENGR 2403, Statics	3	ENGR 2413, Mechanics of Materials	3
ENGR 2421, Lab. for Electric Circuits I	1	ENGR 3423, Dynamics	3
ENGR 2423, Electric Circuits I	3	MATH 4403, Differential Equations	3
MATH 3254, Calculus III	4	ME 2502, Solid Modeling for Mechanical Engineers	2
+Fine Arts elective	3	PHYS 2044 University Physics II	4
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Junior Year

Fall Semester	Hrs	Spring Semester	Hrs
ENGR 3433, Engineering Economics	3	ME 3513, Mechanical Vibrations	3
ME 4543, Machine Design	3	ME 3533, Engineering Thermodynamics II	3
ENGR 3443, Engineering Thermo. I	3	+Social Science elective	3
+Humanities elective	3	ME 4573, Mechanical Systems Design	3
ENGR 3471, Lab. for Fluid Mechanics	1	ENGR 4453, Num. Meth. for Engineers	3
ENGR 3473, Fluid Mechanics	3	ME 4553, Heat Transfer	3
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Senior Year

Fall Semester	Hrs	Spring Semester	Hrs
ENGR 4463, Senior Design I	3	ENGR 4482, Senior Design II	2
ME 3504, Process Monitoring and Control	4	++ME Elective	3
ENGR 4401, Senior Seminar	1	***Professional Development Elective	3
ME 4503, Fluid and Thermal Energy Systems	3	++ME Elective	3
ME 4613, Introduction to Mechatronics	3	ME 3613, Control Systems for ME	3
ME 4563, Intro. To Man. Processes	3		
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Total

128

+ See General Education requirements for the College of Engineering.

++ List of approved electives is given on page 2 of this document.

*** Approval of advisor required.

