

Mechanical Engineering (BSME)

Suggested Plan of Study

2023-2024 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
PHYS 2203 2201 University Physics I/Lab	4	ENGR 2143 Statics	3
ENGR 1212 Engineering Graphics	2	PHYS 2213/2211 University Physics II/Lab	4
GSTD 1002 Freshman Seminar	2	ENGR 1021 Introduction to Engineering Lab	1
Total Semester Hours	16	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
CHEM 1023/1021 University Chemistry I/Lab	4	CSCI 2103/2101 Computer Science I/Lab	4
Fine Arts/Humanities (ART 1103 or ART 2013, HUM 2003, HUM 2103, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, or Foreign Language)	3	MATH 3033 Differential Equations	3
MATH 2563 Calculus III	3	ENGR 2163 Dynamics	3
ENGR 2033/2031 Electrical Circuits I/Lab	4	ENGR 2043 Properties of Materials	3
ENGR 2020 Engineering Exams	0	MATH 3043 Applied Probability and Statistics I	3
		ENGR 2020 Engineering Exams	0
Total Semester Hours	14	Total Semester Hours	16
Fall - Semester 5		Spring - Semester 6	
ENGR 3143/3141 Manufacturing Processes/Lab	4	ENGR 4013 Machine Design	3
ENGR 3003 Fluid Mechanics	3	ENGR 3163 Computer Aided Design & Analysis	3
ENGR 3013 Thermodynamics	3	ENGR 3211 Thermal Fluid Science Lab	1
ENGR 3043 Mechanics of Materials	3	ENGR 3083 Numerical Methods in Engineering	3
ENGR 3101 Solid Mechanics Lab	1	ENGR 3023 Heat Transfer	3
ENGR 2020 Engineering Exams	0	ENGL 3023 Technical Writing	3
		ENGR 2020 Engineering Exams	0
Total Semester Hours	14	Total Semester Hours	16
Fall - Semester 7		Spring - Semester 8	
HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National*	3	ENGR 4701 Work Experience Learning (Internship)	1
ENGR 3073 Engineering Economics	3	MECH 4122 Mechanical Engineering Design Capstone II	2
ENGR 4992 Mechanical Engineering Proficiency	2	UL Engineering or Physics Elective	3
ENGR 4053 Thermal Fluid Systems Design	3	Social Science choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
MECH 4022 Mechanical Engineering Design Capstone I	2	Fine Arts/Humanities (ART 1103 or ART 2013, HUM 2003, HUM 2103, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, or THEA 2003)	3
ENGR 4033 Control Systems	3	ENGR 2020 Engineering Exams	0
ENGR 2020 Engineering Exams	0		
Total Semester Hours	16	Total Semester Hours	12

Total hours required for major – 120

*Note: Must have three hours of US history/government.