B.S. Manufacturing Engineering Technology (MFET)

Explanation:

Your individual plan may vary based on course availability and individual goals. You should always consult with your advisor regularly and reference the course catalog available on the MU Web site.

FIRST YEAR

FALL SEMESTER	
Recommended Course Selections	Credits
AENG 130 Production Materials and Processes	4
AENG 161 Electronic Systems	4
ENG 110 English Composition	3
FYEX 100 First-Year Experience	3
(Take CHEM placement test)	-
Total Credits for Semester	14

SPRING SEMESTER	
Recommended Course Selections	Credits
AENG 241 Drafting Communications	4
OSEH 120 Occupational Safety & Environ. Health Issues	3
MATH 130 or prerequisite	3
COMM 100 Oral Communication	3
GEN ED: Gateway Course	3
Total Credits for Semester	16

SECOND YEAR

FALL SEMESTER	
Recommended Course Selections	Credits
AENG 271 Processing Non-Metallic Materials	4
AENG 225 Industrial Robotics I	4
AENG 325 Power Conversion & Control	4
BUAD 251 Principles of Management	3
Total Credits for Semester	15

SPRING SEIVIESTER	
Recommended Course Selections	Credits
AENG 281 Metallic Materials & Production Methods	4
AENG 342 Solid Modeling & 3D Prototyping	4
MATH 151, 160, or 161 Calculus (pick one)	4
GEN ED: Gateway Course	3
Total Credits for Semester	15

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THIRD YEAR

FALL SEMESTER	
Recommended Course Selections	Credits
AENG 300+ Elective/Internship *	3
AENG 382 Automated Manufacturing	4
CHEM 103 or CHEM 111 (pick one)	4
GEN ED: Gateway Course	3
WRIT 312/316/319 (pick one)	3
Total Credits for Semester	17

SPRING SEMESTER	
Recommended Course Selections	Credits
AENG 337 Programmable Logic Controllers I	4
AENG 375 Polymer and Ceramic Technology	4
PHYS 103 or PHYS 131 (pick one)	4-5
Free Elective (optional minor**)	3
Total Credits for Semester	15-16

FOURTH YEAR

FALL SEMESTER	
Recommended Course Selections	Credits
AENG 492 Technical Entrepreneurship	4
AENG 494 Total Quality Management	4
MGMT 452 Production and Operations Management	3
Free Elective (optional minor**)	3
Total Credits for Semester	14

SPRING SEMESTER	
Recommended Course Selections	Credits
AENG 448 Machine Tool Design	4
AENG 470 Senior Seminar	1
GEN ED: Keystone Course	3
Free Elective (optional minor**)	3
Free Elective (optional minor**)	3
Total Credits for Semester	14

^{*} AENG 300+ Co-Op Recommendation: It is recommended that students complete an AENG 300 Co-Op as their directed elective, ideally during the summer after the sophomore or junior year. This approach helps balance the semester course load, and the Co-Op itself is a highly valuable experience that strengthens professional skills and supports job placement after graduation.

8/25; eff. fall 2026

^{**} Minor requirements vary—consult with your advisor.