

## 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		SPRING SEMESTER	
Recommended Course Selections	Credits	Recommended Course Selections	Credits
AENG 130 Production Materials and Processes	3	AENG 241 Drafting Communications	3
AENG 261 Electronic Systems	3	AENG 271 Processing Non-Metallic Materials	3
ENG 110 English Composition	3	COMM 100 Oral Communication	3
UNIV 103 First-Year Inquiry	3	WELL 175 Wellness	3
General Education	3	General Education	3
(Take CHEM placement test)	-		
<b>Total Credits for Semester</b>	<b>15</b>	<b>Total Credits for Semester</b>	<b>15</b>

## SECOND YEAR

FALL SEMESTER		SPRING SEMESTER	
Recommended Course Selections	Credits	Recommended Course Selections	Credits
AENG 325 Power Conversion & Control	3	AENG 262 Semiconductor Electronics	3
AENG 342 Computer-Aided Engineering Drawing	3	AENG 281 Metallic Materials & Production Methods	3
MATH 130 Survey of Statistics	3	AENG 326 Fluid Power	3
PHYS 131 Physics I with Algebra	4	PHYS 132 Physics II with Algebra	4
General Education	3	General Education	3
<b>Total Credits for Semester</b>	<b>16</b>	<b>Total Credits for Semester</b>	<b>16</b>

## THIRD YEAR

FALL SEMESTER		SPRING SEMESTER	
Recommended Course Selections	Credits	Recommended Course Selections	Credits
AENG 300+ Elective/Internship *	3	AENG 427 Programmable Logic Controllers	3
AENG 382 Automated Manufacturing	3	AENG 344 Product Design	3
AENG 425 Industrial Robotics Systems	3	WRIT 312/316/319 (choose one)	3
MATH 161 Calculus	4	General Education	3
General Education	3	General Education	3
<b>Total Credits for Semester</b>	<b>16</b>	<b>Total Credits for Semester</b>	<b>15</b>

## FOURTH YEAR

FALL SEMESTER		SPRING SEMESTER	
Recommended Course Selections	Credits	Recommended Course Selections	Credits
AENG 492 Technical Entrepreneurship	3	AENG 375 Polymer and Ceramic Technology	3
AENG 494 Total Quality Management	3	AENG 448 Machine Tool Design	3
CHEM 111 Introductory Chemistry	4	AENG 345 Statics & Strength of Materials	3
General Education	3	Free Elective	3
Free Elective	3		
<b>Total Credits for Semester</b>	<b>16</b>	<b>Total Credits for Semester</b>	<b>12</b>

\* 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 semester course loads, and the Co-Op is a highly valuable experience that strengthens professional skills and supports job placement after graduation.