

# ENGINEERING TECHNOLOGY: MECHANICAL & MANUFACTURING OPTION

## Bachelor of Science (BS)

This is a guide based on the 2025-2026 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

### CURRICULUM CHECKLIST

#### 93 hour major – No minor required

- \_\_\_ CH181 Basic Principles of Chemistry (5)
- \_\_\_ ET160 Basic Electric Circuits (3)
- \_\_\_ ET304 Introduction to PLCs (3)
- \_\_\_ IM300 Technical Communications (3)
- \_\_\_ IM301 Industrial Safety Supervision (3)
- \_\_\_ IM309 Science, Technology, & Society (3)
- \_\_\_ IM311 Statistical Process Control (3)
- \_\_\_ MA137 Precalculus (5)
- \_\_\_ MA140 Analytic Geometry & Calculus I (5)
- \_\_\_ MN120 Fundamentals of Engineering Design Processes (3)
- \_\_\_ MN220 Engineering Economic Analysis (3)
- \_\_\_ MN260 Technical Computer Programming Applications (3)
- \_\_\_ MN300 Computational Analysis in Engineering Technology (3)
- \_\_\_ MN356 Robotic Fundamentals (3)
- \_\_\_ MN383 Fluid Power (3)
- \_\_\_ MN412 Industrial Capstone Projects (3)
- \_\_\_ PH120 Introductory Physics I (5)
- \_\_\_ SW207 Understanding Cultural & Social Diversity (3)

#### Choose 3 hours:

- \_\_\_ IM317 Cooperative Industrial Internship (3)
- \_\_\_ IM410 Manufacturing Research in a Global Society (3)

#### Mechanical & Manufacturing Option (28 hours):

- \_\_\_ MN170 Industrial Materials and Testing (3)
- \_\_\_ MN203 Industrial Materials and Processes I (3)
- \_\_\_ MN221 Solid Modeling & Rapid Prototyping (3)
- \_\_\_ MN304 Industrial Materials & Processes II (3)
- \_\_\_ MN319 Statics and Strengths of Materials (3)
- \_\_\_ MN324 Mechanical Design Processes (3)
- \_\_\_ MN350 Machine Design (3)
- \_\_\_ MN354 Computer Aided Manufacturing (CAM) (3)
- \_\_\_ MN402 Plastics & Processes (3)
- \_\_\_ MN416 Manufacturing Seminar (1)

**General Education Requirements** – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

### SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
<b>FIRST YEAR</b>	UI100	1	IM301	3
	EN100	3	MA140	5
	CH181	5	MN170	3
	MA137	5	PH120/020	5
	MN120	3		
	<b>Total</b>	<b>17</b>	<b>Total</b>	<b>16</b>
<b>SECOND YEAR</b>	ET160	3	MN221	3
	IM300	3	MN260	3
	MN300	3	MN319	3
	General Education	3	SW207	3
	General Education	3	General Education	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>THIRD YEAR</b>	IM311	3	ET304	3
	MN203	3	MN220	3
	MN324	3	MN304	3
	General Education	3	MN350	3
	General Education	3	MN383	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>FOURTH YEAR</b>	MN354	3	IM309	3
	MN356	3	IM317/IM410	3
	MN402	3	MN412	3
	General Education	3	MN416	1
	General Education	3	Elective	2
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>12</b>

*\*Many major courses are on a set rotation and thus dependent on when prerequisite courses are completed. The actual semester a course is taken may vary based on the rotation.*

**Degree requirements for all students:** a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

*A minimum 2.0 GPA in the major and overall are required to graduate with a BS degree.*

Revised  
3/3/2025

# 2025-2026 degree map



Engineering  
Technology  
Accreditation  
Commission



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