

# Skilled Trades-Maintenance Mechanic, Certificate

24-25 catalog

**Description:** This program trains students in basic industrial maintenance. Coursework focuses on electronics, PLCs, and machine operation.

**Completion Time:** 1.5 Years

**Part-time course schedule** (You do not have to follow this exact schedule. It is meant to show the courses needed.)

## Year 1

### Fall Semester

- Success Skills for the 21st Century GNST 100 3 Cr.
- Electrical Circuit Analysis ATMN 110 3 Cr.
- Introduction to Windows CMIS 102 1 Cr.
- Industrial Applied Algebra INDS 122 2 Cr.

### Spring Semester

- Choose One
  - Pneumatics INDS 106 3 Cr.
  - Hydraulics INDS 107 3 Cr.
- Industrial Applied Geometry INDS 124 2 Cr.
- Metallurgy & Heat Treatment INDS 130 2 Cr.
- Industrial First Aid INDS 156 0.5 Cr.
- Industrial Safety INDS 157 1 Cr.
- Industrial Documentation & Management TDSN 107 4 Cr.

## Year 2

### Fall Semester

- Industrial Motors and Controls ATMN 140 4 Cr.
- Industrial Control Systems-Allen Bradley ATMN 160 4 Cr.
- Basic Machine Operation INDS 129 4 Cr.

**Total Credits: 33.5**

\*ATMN 110 requires knowledge of algebra and manipulation of variables. INDS 122 is a pre-requisite but may be allowed to enroll along with ATMN 110 depending on mathematics background. Please contact Student Success Center with questions.

**Academic Advising:** You should meet with an academic counselor prior to registering for classes.

**Note:** Prerequisite courses may apply to this program. A minimum of 30 unduplicated credits (100 level or higher) are required for all certificate programs.

# Skilled Trades-Maintenance Mechanic, Certificate

24-25 catalog

**Description:** This program trains students in basic industrial maintenance. Coursework focuses on electronics, PLCs, and machine operation.

**Completion Time:** 2.5 Years

<b>Half-time course schedule</b> (You do not have to follow this exact schedule. It is meant to show the courses needed.)			
<b>Year 1</b>		<b>Year 2</b>	
<b>Fall Semester</b>		<b>Fall Semester</b>	
<input type="checkbox"/> Success Skills for the 21st Century	GNST 100 3 Cr.	<input type="checkbox"/> Industrial Motors and Controls	ATMN 140 4 Cr.
<input type="checkbox"/> Introduction to Windows	CMIS 102 1 Cr.	<input type="checkbox"/> Industrial Documentation & Management	TDSN 107 4 Cr.
<input type="checkbox"/> Industrial Applied Algebra	INDS 122 2 Cr.		
<b>Spring Semester</b>		<b>Spring Semester</b>	
<input type="checkbox"/> Electrical Circuit Analysis	ATMN 110 3 Cr.	<input type="checkbox"/> Industrial Control Systems-Allen Bradley	ATMN 160 4 Cr.
<input type="checkbox"/> Industrial Applied Geometry	INDS 124 2 Cr.	<input type="checkbox"/> Metallurgy & Heat Treatment	INDS 130 2 Cr.
<input type="checkbox"/> Industrial Safety	INDS 157 1 Cr.		
<input type="checkbox"/> Industrial First Aid	INDS 156 0.5 Cr.		
		<b>Year 3</b>	
		<b>Fall Semester</b>	
		<input type="checkbox"/> Choose One	
		Pneumatics	INDS 106 3 Cr.
		Hydraulics	INDS 107 3 Cr.
		<input type="checkbox"/> Basic Machine Operation	INDS 129 4 Cr.
<b>Total Credits: 33.5</b>			

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**Academic Advising:** You should meet with an academic counselor prior to registering for classes.

**Note:** Prerequisite courses may apply to this program. A minimum of 30 unduplicated credits (100 level or higher) are required for all certificate programs.

# Skilled Trades-Maintenance Mechanic, Certificate

24-25 catalog

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**Completion Time:** 2.5 Years

<b>Full-time course schedule</b> (You do not have to follow this exact schedule. It is meant to show the courses needed.)			
<b>Year 1</b>		<b>Year 2</b>	
<b>Fall Semester</b>		<b>Fall Semester</b>	
<input type="checkbox"/> Success Skills for the 21st Century	GNST 100 3 Cr.	<input type="checkbox"/> Industrial Applied Geometry	INDS 124 2 Cr.
<input type="checkbox"/> Industrial Documentation & Management	TDSN 107 4 Cr.	<input type="checkbox"/> Metallurgy & Heat Treatment	INDS 130 2 Cr.
		<input type="checkbox"/> Industrial Safety	INDS 157 1 Cr.
		<input type="checkbox"/> Industrial First Aid	INDS 156 0.5 Cr.
		<input type="checkbox"/> Choose One	
		Pneumatics	INDS 106 3 Cr.
		Hydraulics	INDS 107 3 Cr.
<b>Spring Semester</b>		<b>Spring Semester</b>	
<input type="checkbox"/> Electrical Circuit Analysis	ATMN 110 3 Cr.	<input type="checkbox"/> Industrial Motors and Controls	ATMN 140 4 Cr.
<input type="checkbox"/> Introduction to Windows	CMIS 102 1 Cr.	<input type="checkbox"/> Industrial Control Systems-Allen Bradley	ATMN 160 4 Cr.
<input type="checkbox"/> Basic Machine Operation	INDS 129 4 Cr.		
<b>Total Credits: 33.5</b>			

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