

Skilled Trades-Machinist, Certificate

24-25 catalog

Description: This program trains students in basic industrial machining. Coursework focuses on electronics, CNC, and tool & machine operations.

Completion Time: 2 Years

Part-time course schedule (You do not have to follow this exact schedule. It is meant to show the courses needed.)	
Year 1	Year 2
<p>Fall Semester</p> <ul style="list-style-type: none"> <input type="checkbox"/> Success Skills for the 21st Century GNST 100 3 Cr. <input type="checkbox"/> Introduction to Windows CMIS 102 1 Cr. <input type="checkbox"/> Industrial Applied Algebra INDS 122 2 Cr. <input type="checkbox"/> Industrial Communications TDSN 103 2 Cr. 	<p>Fall Semester</p> <ul style="list-style-type: none"> <input type="checkbox"/> Basic Machine Operation INDS 129 4 Cr. <input type="checkbox"/> Fundamentals of Welding WELD 101 3 Cr. <input type="checkbox"/> Choose 1 <ul style="list-style-type: none"> MIG Welding WELD 105 3 Cr. TIG Welding WELD 106 3 Cr.
<p>Spring Semester</p> <ul style="list-style-type: none"> <input type="checkbox"/> Industrial Applied Geometry INDS 124 2 Cr. <input type="checkbox"/> Industrial First Aid INDS 156 0.5 Cr. <input type="checkbox"/> Industrial Safety INDS 157 1 Cr. <input type="checkbox"/> Industrial Documentation & Management TDNS 107 4 Cr. 	<p>Spring Semester</p> <ul style="list-style-type: none"> <input type="checkbox"/> Industrial Applied Right Angle and Oblique Trigonometry INDS 127 2 Cr. <input type="checkbox"/> Basic CNC Machining INDS 131 3 Cr. <input type="checkbox"/> Industrial Quality Control INDS 270 3 Cr. <input type="checkbox"/> Geometric Dimensioning & Tolerancing TDSN 125 2 Cr.
Total Credits: 35.5	

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-Machinist, Certificate

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Description: This program trains students in basic industrial machining. Coursework focuses on electronics, CNC, and tool & machine operations.

Completion Time: 2.5 Years

Half-time course schedule (You do not have to follow this exact schedule. It is meant to show the courses needed.)			
Year 1		Year 2	
Fall Semester		Fall Semester	
<input type="checkbox"/>	Success Skills for the 21st Century	GNST 100	3 Cr.
<input type="checkbox"/>	Introduction to Windows	CMIS 102	1 Cr.
<input type="checkbox"/>	Industrial Applied Algebra	INDS 122	2 Cr.
Spring Semester		Spring Semester	
<input type="checkbox"/>	Industrial Applied Geometry	INDS 124	2 Cr.
<input type="checkbox"/>	Industrial First Aid	INDS 156	0.5 Cr.
<input type="checkbox"/>	Industrial Safety	INDS 157	1 Cr.
<input type="checkbox"/>	Industrial Documentation & Management	TDNS 107	4 Cr.
<input type="checkbox"/>	Basic Machine Operation	INDS 129	4 Cr.
<input type="checkbox"/>	Industrial Communications	TDSN 103	2 Cr.
<input type="checkbox"/>	Industrial Applied Right Angle and Oblique Trigonometry	INDS 127	2 Cr.
<input type="checkbox"/>	Basic CNC Machining	INDS 131	3 Cr.
<input type="checkbox"/>	Industrial Quality Control	INDS 270	3 Cr.
<input type="checkbox"/>	Geometric Dimensioning & Tolerancing	TDSN 125	2 Cr.
Year 3			
Fall Semester			
<input type="checkbox"/>	Fundamentals of Welding	WELD 101	3 Cr.
<input type="checkbox"/>	Choose 1		
	MIG Welding	WELD 105	3 Cr.
	TIG Welding	WELD 106	3 Cr.
Total Credits: 35.5			

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Description: This program trains students in basic industrial machining. Coursework focuses on electronics, CNC, and tool & machine operations.

Completion Time: 2 Years

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

Year 1

Spring Semester

- Success Skills for the 21st Century GNST 100 3 Cr.
- Industrial Applied Algebra INDS 122 2 Cr.
- Industrial Documentation & Management TDNS 107 4 Cr.

Fall Semester

- Basic Machine Operation INDS 129 4 Cr.
- Fundamentals of Welding WELD 101 3 Cr.

Year 2

Spring Semester

- Industrial Applied Geometry INDS 124 2 Cr.
- Industrial First Aid INDS 156 0.5 Cr.
- Industrial Safety INDS 157 1 Cr.

Fall Semester

- Introduction to Windows CMIS 102 1 Cr.
- Industrial Communications TDSN 103 2 Cr.
- Choose 1
 - MIG Welding WELD 105 3 Cr.
 - TIG Welding WELD 106 3 Cr.

Year 2

Spring Semester

- Industrial Applied Right Angle and Oblique Trigonometry INDS 127 2 Cr.
- Basic CNC Machining INDS 131 3 Cr.
- Industrial Quality Control INDS 270 3 Cr.
- Geometric Dimensioning & Tolerancing TDSN 125 2 Cr.

Total Credits: 35.5

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.