

## Precision Machining Technology

### ► Contact Information

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 701-671-2478  
 Tech Center 29

### ► Delivery Methods

Face-to-Face: Wahpeton

The Precision Machining Technology curriculum is designed to provide students experience in machining as it pertains to machining, toolmaking and mold making.

This program provides education and training in CNC programming, CNC set-up and operation, production machining, mold making, die making, toolmaking, automated manufacturing, human relations, communications and other aspects of general education.

Career opportunities offer a wide range of employment possibilities in the manufacturing, machining, toolmaking, mold making and production areas. Recent placement has been 98 percent.

### Admission Requirements\*

The applicants must be high school graduates or equivalent. Students considered for acceptance must complete all admission requirements.

Required minimum placement scores:

<u>ACT</u>	<u>ACCUPLACER</u>	<u>ACCUPLACER</u>
Reading – 15	Reading Comp – 61	<u>NEXT GENERATION</u>
English – 15	WritePlacer – 3-4	Reading – 240
Math – 17	Arithmetic – 51	Writing – 237
	Elementary Algebra – 25	QAS – 232

Or transfer equivalencies will apply as appropriate

Applicants not meeting the above requirements are encouraged to visit with the academic counselor at 701-671-2257 or the Manufacturing Technology department chair at 701-671-2478 for strategies to meet the admission requirements.

\*Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.

### Award

Upon successful completion of the required courses, students will be awarded a certificate, diploma or Associate in Applied Science degree in Precision Machining Technology.

Course Code	Course Title	Credits
<b>Certificate</b>		
MATL 101	Machine Tool Theory I	4
MATL 102	Machine Tool Theory II	4
MATL 111	Machine Tool Lab I	7
MATL 112	Machine Tool Lab II	7
MFGT 137	Print Reading I	2
MFGT 141	Print Reading II	2
<b>Diploma and Associate in Applied Science</b>		
MATL 101	Machine Tool Theory I	4
MATL 102	Machine Tool Theory II	4
MATL 111	Machine Tool Lab I	7
MATL 112	Machine Tool Lab II	7
MATL 201	Toolmaking Theory I	3
MATL 202	Toolmaking Theory II	2
MATL 205	CNC Theory and CAD-CAM Operation	4
MATL 206	CNC and CAD-CAM Programming	3
MATL 213	Machinist Lab I	7
MATL 214	Machinist Lab II	7
MFGT 137	Print Reading I	2
MFGT 141	Print Reading II	2
<b>Related/General Education Courses</b>		
<b>Certificate</b>		
MATH 130	Technical Mathematics	2
MATH 136	Technical Trigonometry	2
Social and Behavioral Sciences, Humanities, History and/or Computer Electives		2
Recommended:		
• CIS 101 – Computer Literacy – 2 cr		
FYE 101	Science of Success	1
<b>Diploma</b>		
ENGL 105	Technical Communications	3
or ENGL 110 College Composition I (3)		
MATH 130	Technical Mathematics	2
MATH 136	Technical Trigonometry	2
Social and Behavioral Sciences, Humanities, History and/or Computer Electives		4
Recommended:		
• CIS 101 – Computer Literacy – 2 cr		
• PSYC 100 – Human Relations in Organizations – 2 cr		
Wellness Elective		1
FYE 101	Science of Success	1
<b>Associate in Applied Science</b>		
ENGL 110	College Composition I	3
English/Communication Elective (choose one)		3
ENGL 105	Technical Communications	
ENGL 120	College Composition II	
ENGL 125	Introduction to Professional Writing	
COMM 110	Fundamentals of Public Speaking	
MATH 130	Technical Mathematics	2
MATH 132	Technical Algebra I	2
MATH 136	Technical Trigonometry	2
Social and Behavioral Sciences, Humanities, History and/or Computer Electives		4
Recommended:		
• CIS 101 – Computer Literacy – 2 cr		
• PSYC 100 – Human Relations in Organizations – 2 cr		
Wellness Electives		2
FYE 101	Science of Success	1
<b>Total Required Credits for Certificate</b>		<b>33</b>
<b>Total Required Credits for Diploma</b>		<b>65</b>
<b>Total Required Credits for Associate in Applied Science</b>		<b>71</b>