

Precision Machining Technology

Degree Type

Associate in Applied Science or Certificate or Diploma

Contact Information

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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.

NOTE: This program requires an EliteBook Laptop or equivalent. Please refer to the NDSCS website for specifications. For further information, contact Steve Johnson, department chair, at 701-671-2478.

Admission Requirements*

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

Please Note: Students are placed into English, math and reading courses based on ACT, ACCUPLACER or other nationally recognized tests. Please see www.ndscs.edu/current-students/student-success/test-center for the NDSCS Course Placement Policy and testing information. Students may be on an extended plan of study pending their course placement.

*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.

Certificate Required Courses

Course Code	Title	Credits
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

Diploma and Associate in Applied Science

Course Code	Title	Credits
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

Certificate Related/General Education Courses

Course Code	Title	Credits
MATH 130	Technical Math	2
MATH 136	Technical Trigonometry	2
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives (2 hours)	2
FYE 101	Science of Success	1

Diploma

Course Code	Title	Credits
	ENGL 105 or ENGL 110	3
MATH 130	Technical Math	2
MATH 136	Technical Trigonometry	2
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives (4 credits)	4
	Wellness Elective (1 credit)	1
FYE 101	Science of Success	1

Associate in Applied Science

Course Code	Title	Credits
ENGL 110	College Composition I	3
	English/Communication Elective (choose one)	3
MATH 130	Technical Math	2
MATH 132	Technical Algebra I	2
MATH 136	Technical Trigonometry	2
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives (4 credits)	4
	Wellness Elective(s) (2 credits)	2
FYE 101	Science of Success	1
	Total Required Credits	33-71