



PRECISION MACHINING TECHNOLOGY



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PROGRAM PURPOSE

In the precision machining technology program, students develop advanced skills in setting up and operating machine tools to produce precision parts and develop the required skills in preparation for automated machining. Students learn all required areas of manual machining before beginning on the high-tech skills of computer numerical control (CNC) machine tools. Students are involved in all aspects of the machining process, from blueprint reading and interpretation, precision measuring, through material removal. There is a strong general education component integrated into the program to satisfy demands for appropriate work force skills. A number of employers are committed to providing summer work and/or cooperative work experience for NMCC precision machining technology students.

**The Precision Machining Technology program at NMCC is
Maine's first HAAS Technical Education Center.**

CAREER OPPORTUNITIES

Graduates of the precision machining technology associate degree program find employment in regional or state manufacturing facilities including aerospace, defense industries, automotive and more such as :

- machine tool operators
- precision machinists
- tool and die makers
- CNC operators/programmers
- quality control inspectors.

Graduates of the certificate program may choose to continue to the associate degree program, or they may find work as entry-level machine tool operators.

Do you like to work with your hands and fix things?

High Demand Field.

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APPLICATION PROCEDURE

The following procedures constitute the admissions process:

1. Submit an NMCC application along with a \$20 application fee.
2. Submit official high school transcript and/or HiSET/GED scores (current senior's transcript should include completed ranking period grades).
3. Official college transcripts for applicants who have attended other post-secondary schools.
4. If SAT scores are not available, placement testing will be required.
5. Individual interview required .
A campus tour is highly recommended.

**Questions contact:
admissions@nmcc.edu**

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NMCC mobile app. at
any app. store.**

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PRECISION MACHINING TECHNOLOGY

2019-2020 Curriculum

Associate in Applied Science Degree Program

<u>First Semester</u>		C	L	CR
COL 103	College Success	1	0	1
DRT 109	Mechanical Drafting & Design	1.5	4.5	3
MAT 119	Applied Mathematics	4	0	4
♦ MTT 113	Machine Tool Technology	3	9	6
♦ MTT 115	NIMS Lab I	0	3	1
♦ PMM 102	Intro to CNC Operations	1	3	2
♦ PMM 104	Machine Trades Print Reading	1	0	1
		11.5	19.5	18

<u>Second Semester</u>		C	L	CR
ENG 111	English Composition	3	0	3
♦ MTT 119	NIMS Lab II	0	3	1
♦ MTT 125	Machine Tool Tech. II	3	9	6
♦ PMM 120	Intro. to CNC Programming Set Up & Operation	1.5	4.5	3
♦ PMM 212	Geometric Dimensioning & Tolerancing	1	3	2
SAE 117	Occupational Safety	1	0	1
		9.5	19.5	16

<u>Third Semester</u>		C	L	CR
COM 221	Technical Communications	3	0	3
♦ PMM 117	CAM for Milling	1	3	2
♦ PMM 119	CAM for Turning	1	3	2
♦ PMM 223	Intro to PMM	3	9	6
♦ PMM 227	NIMS Lab III	0	3	1
	Humanities Elective	3	0	3
		11	18	17

<u>Fourth Semester</u>		C	L	CR
PHY 150	Physics	3	2	4
♦ PMM 231	Advanced Precision Metals Manufacturing	3	9	6
♦ PMM 233	NIMS Lab IV	0	6	2
♦ PMM 235	Multi-Axis Milling	1	3	2
	Social Science Elective	3	0	3
		10	20	17

TOTAL REQUIRED 68

Certificate Program

<u>First Semester</u>		C	L	CR
DRT 109	Mechanical Drafting & Design	1.5	4.5	3
MAT 119	Applied Mathematics	4	0	4
♦ MTT 113	Machine Tool Technology	3	9	6
♦ MTT 115	NIMS Lab I	0	3	1
♦ PMM 102	Intro to CNC Operations	1	3	2
♦ PMM 104	Machine Trades Print Read	1	0	1
		10.5	19.5	17

<u>Second Semester</u>		C	L	CR
ENG 111	English Composition	3	0	3
♦ MTT 119	NIMS Lab II	0	3	1
♦ MTT 125	Machine Tool Tech. II	3	9	6
♦ PMM 120	Intro. to CNC Programming Set Up & Operation	1.5	4.5	3
♦ PMM 212	Geometric Dimensioning & Tolerancing	1	3	2
SAE 117	Occupational Safety	1	0	1
		9.5	19.5	16

TOTAL REQUIRED 34

♦ Major courses; a minimum grade of "C" or 2.0 required.

NMCC is an equal opportunity/affirmative action institution and employer. For more information, please call 768-2791.

Key: C= Class Hours, L= Lab Hours, CR= Credit Hours

207-768-2785

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