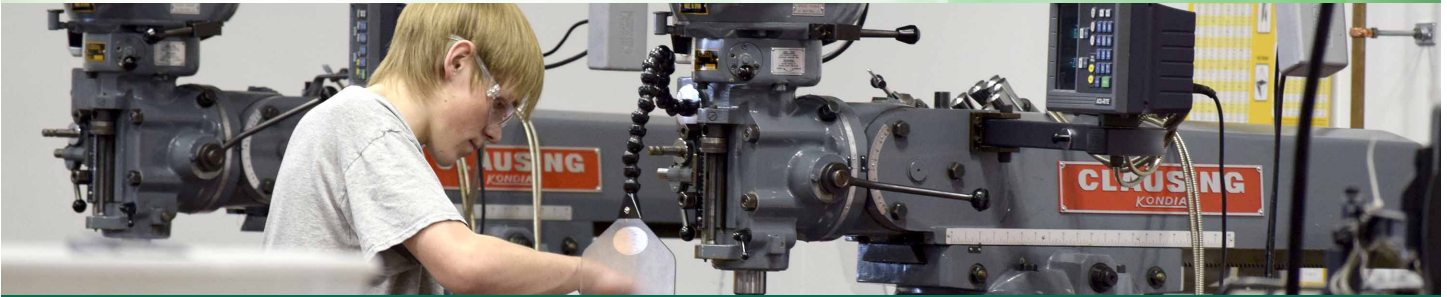




# PRECISION MACHINING TECHNOLOGY



## SUCCESS BEGINS HERE

### 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 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.

Newly renovated lab with state-of-the-art equipment!

[nmcc.edu](http://nmcc.edu)



### APPLICATION PROCEDURE

*The following procedures constitute the admissions process:*

1. Submit application form to the Admissions Office, accompanied by a non-refundable \$20 application fee.
2. Submit an official high school transcript for all years attended. Current high school seniors: include grades for the ranking periods completed at the time of application.
3. HiSET/GED scores must be submitted by applicants who are not high school graduates.
4. Applicants who have attended other colleges or post-secondary schools: submit official college transcripts to the Admissions Office.
5. Placement testing or appropriate SAT scores, individual interviews and campus tours are required in most cases prior to admissions notification.
6. Admission decisions are made as quickly as possible once a candidate's file is complete.
7. A classroom deposit is required within two weeks of acceptance notification. For those wishing to live on campus, an additional deposit is required to reserve dorm space.

**SUCCESS BEGINS HERE**

# PRECISION MACHINING TECHNOLOGY

2017-2018 Curriculum

## Associate in Applied Science Degree Program

<b>First Semester</b>		<b>C</b>	<b>L</b>	<b>CR</b>
DRT 109	Mechanical Drafting & Design	1.5	4.5	3
MAT 119	Applied Mathematics	4	0	4
♦ MTT 113	<b>Machine Tool Technology</b>	<b>3</b>	<b>9</b>	<b>6</b>
♦ MTT 115	<b>NIMS Lab I</b>	<b>0</b>	<b>3</b>	<b>1</b>
♦ PMM 102	<b>Intro to CNC Operations</b>	<b>1</b>	<b>3</b>	<b>2</b>
♦ PMM 104	Machine Trades Print Reading	1	0	1
SAE 117	Occupational Safety	1	0	1
		<u>11.5</u>	<u>19.5</u>	<u>18</u>

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

<b>Third Semester</b>		<b>C</b>	<b>L</b>	<b>CR</b>
PHY 150	Physics	3	2	4
♦ PMM 117	<b>CAM for Milling</b>	<b>1</b>	<b>3</b>	<b>2</b>
♦ PMM 119	<b>CAM for Turning</b>	<b>1</b>	<b>3</b>	<b>2</b>
♦ PMM 223	<b>Intro to PMM</b>	<b>3</b>	<b>9</b>	<b>6</b>
♦ PMM 227	<b>NIMS Lab III</b>	<b>0</b>	<b>3</b>	<b>1</b>
		<u>8</u>	<u>20</u>	<u>15</u>

<b>Fourth Semester</b>		<b>C</b>	<b>L</b>	<b>CR</b>
COM 221	Technical Communications	3	0	3
♦ PMM 231	<b>Advanced Precision</b>	<b>3</b>	<b>9</b>	<b>6</b>
	<b>Metals Manufacturing</b>			
♦ PMM 233	<b>NIMS Lab IV</b>	<b>0</b>	<b>6</b>	<b>2</b>
	Humanities Elective	3	0	3
	Social Science Elective	3	0	3
		<u>12</u>	<u>15</u>	<u>17</u>

**TOTAL REQUIRED** 66

## Certificate Program

<b>First Semester</b>		<b>C</b>	<b>L</b>	<b>CR</b>
DRT 109	Mechanical Drafting & Design	1.5	4.5	3
MAT 119	Applied Mathematics	4	0	4
♦ MTT 113	<b>Machine Tool Technology</b>	<b>3</b>	<b>9</b>	<b>6</b>
♦ MTT 115	<b>NIMS Lab I</b>	<b>0</b>	<b>3</b>	<b>1</b>
♦ PMM 102	<b>Intro to CNC Operations</b>	<b>1</b>	<b>3</b>	<b>2</b>
♦ PMM 104	Machine Trades Print Read	1	0	1
SAE 117	Occupational Safety	1	0	1
		<u>11.5</u>	<u>19.5</u>	<u>18</u>

<b>Second Semester</b>		<b>C</b>	<b>L</b>	<b>CR</b>
ENG 111	English Composition	3	0	3
♦ MTT 119	<b>NIMS Lab II</b>	<b>0</b>	<b>3</b>	<b>1</b>
♦ MTT 125	<b>Machine Tool Tech. II</b>	<b>3</b>	<b>9</b>	<b>6</b>
♦ PMM 120	<b>Intro. to CNC Programming</b>			
	Set Up & Operation	1.5	4.5	3
♦ PMM 212	<b>Geometric Dimensioning</b>			
	& Tolerancing	1	3	2
		<u>8.5</u>	<u>19.5</u>	<u>15</u>

**TOTAL REQUIRED** 33

♦ 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.

**207-768-2785**

**nmcc.edu**