

What can I do with an Associate of Applied Science Machine Tool Technology degree?

Students who complete the program can expect careers **making tools, parts, and repairing equipment** in fields such as aerospace, aircraft, automotive, firearms, marine, and private business.

Machinists are needed in virtually any business or industry where machines are manufactured, repaired or used.



Facts at a Glance:

- The average starting salary is between \$20,000 and \$31,000 annually according to the website, <http://online.onetcenter.org/>.
- If you like working with metal and crafting with hand and power tools, you should consider a career as a machinist.
- If you want to work with an instructor that feels passionate about his field, then the Machine Tool Technology Program would be a good fit.

What types of classes will be covered in the Machine Tool Technology program?

- Machine Tool Math
- Operation of Computer Numerical Control (CNC)
- Metallurgy
- Blueprint Reading
- Grinder Operation
- Drafting
- Conventional Lathe & Mill
- Feeds & Speeds
- Welding

These cutting tools are used to manufacture and repair parts and products made from metals, plastics, rubber textiles, fiberglass and space-age alloys.

Buster the Badger says, "Machinists are needed in a variety of industries."



Contact Information:

Department Chair, Alan Hart	893-2250
E-mail: alan.hart@snow.edu	
Campus Tour & Scholarship Information:	893-2256
Admissions:	893-2258
Advisement:	893-2211

Curriculum for Fall Entering Students:

CR: First Semester:

5	MTT 1110	Machine Tool I
5	MTT 1125	Machine Tool Shop I
3	ENGL 1410	English Mechanics
3	MTT 1715	Applied Technical Math
1	MTT 1581	Skills USA
		<u>or</u>
<u>0.5</u>	MTT 1910	Professional Development I

16.5 - 17 Total Credits**CR: Second Semester:**

5	MTT 1210	Machine Tool II
5	MTT 1225	Machine Tool Shop II
2	CIS 1011	Computer Fundamentals
		<u>or</u>
3	BT 1010	Intro. to Comp.
3	WELD 1030	Related Oxy-acetylene & Arc Welding
1	MTT 1582	Skills USA
		<u>or</u>
<u>0.5</u>	MTT 1920	Professional Development I

15.5- 17 Total Credits**CR: Third Semester:**

8	MTT 2330	Introduction to CNC
3	DRFT 1302	Basic CAD
3	MTT 2716	Machine Tool Mathematics
<u>0.5</u>	MTT 2910	Professional Development III

14 -14.5 Total Credits**CR: Fourth Semester:**

8	MTT 2430	CNC Operations
5	DRFT 1010	Technical Drafting
4	WELD 2320	Metallurgy
<u>0.5</u>	MTT 2920	Professional Development IV

17-17.5 Total Credits

Curriculum for Spring Entering Students:

CR: First Semester:

5	MTT 1110	Machine Tool I
5	MTT 1125	Machine Tool Shop I
3	WELD 1030	Related Oxy-acetylene & Arc Welding
3	MTT 1715	Applied Technical Math
1	MTT 1581	Skills USA
		<u>or</u>
<u>0.5</u>	MTT 1910	Professional Development I

16.5 - 17 Total Credits**CR: Second Semester:**

5	MTT 1210	Machine Tool II
5	MTT 1225	Machine Tool Shop II
3	ENGL 1410	English Mechanics
2	CIS 1011	Computer Fundamentals
		<u>or</u>
3	BT 1010	Intro. to Comp.
1	MTT 1582	Skills USA
		<u>or</u>
<u>0.5</u>	MTT 1920	Professional Development I

16.5- 17 Total Credits**CR: Third Semester:**

8	MTT 2330	Introduction to CNC
5	DRFT 1010	Technical Drafting
4	WELD 2320	Metallurgy
<u>0.5</u>	MTT 2910	Professional Development III

17 -17.5 Total Credits**CR: Fourth Semester:**

8	MTT 2430	CNC Operations
3	DRFT 1302	Basic CAD
3	MTT 2716	Machine Tool Mathematics
<u>0.5</u>	MTT 2920	Professional Development IV <u>or</u>

14-14.5 Total Credits

Machine Tool Technology Suggested Tool List:

- Caliper, 0-6 Digital .0005
- Center punch set
- Center gage 60 degree
- Deburring knife
- Center drill set #1-#5 60 degree
- Drill set 3 in 1 fractions, numbers & letters
- Edge finder, .200x 3/8 single end
- File set 8 pcs. machinist
- Dead blow hammer 16 oz.
- Dial indicator, 1" travel .001
- Dial test indicator .030 with case and attachments
- Mag base with adj. flexbar
- Mighty Mag
- Metal scribe carbide point
- Micrometer set 0-3" .0001
- Pliers 6"
- Protractor square head set
- Parallel set 1/8 x 6
- Screwdrivers – regular & Phillips
- Telescoping gages
- Rule 6"
- Combination hex wrench set – inch and metric
- Tool box – Kennedy
- Wrench 10" adjustable

Approximate cost: \$1,500.00

(The cost of these tools can be spaced out over 3 to 4 semesters.)