

## MACHINE TOOL

Machine Tool Technology deals with the setup and operation of all standard machine tools and the manufacture of precision metal parts. Nearly all the products used in farming, mining, manufacturing, construction, transportation, communication and the professions depend upon the skill of the machinist and the precision tool and diemaker. The machinist-tool and diemaker must be knowledgeable in the areas of mathematics, blueprint reading, mechanical drawing, metals, heat treatment and computer numerical controls.

Graduates of the Machine Tool Technology program are in demand in nearly all manufacturing plants, including small machine shops, production machining industries, plant maintenance shops, metal fabricating industries, plastic injection molding shops, tool and diemaking industries.

The Machine Tool Technology program provides a combination of academic preparation as well as practical experience.

Job opportunities include: machine tool operator, apprentice, job shop machinist, production machinist, tool room machinist, repair machinist, tool and diemaker (for advanced students) and CNC operators.

Certificate programs, such as CNC (Computer Numerical Controls), Machine Operator, are available. Contact Student Services for complete listing.

## MACHINE TOOL

**Diploma: Applied Science in Machine Tool (DAS.MTT)**

**Credits Required for Graduation: 49**

**Overall Grade-point average of 2.00 (C=2) on all college work presented to fulfill program requirements.**

Complete course work in the following areas:

<b>A. General Education: 15 credits</b>		<b>Credits</b>
ENG 155	Communications I	3
HSS 205	Technology and Society	3
MAT 155	Contemporary Mathematics	3
MAT 168	Geometry and Trigonometry	3
PSY 103	Human Relations	3
<b>B. Major Courses: 22 credits</b>		
EGT 106	Print Reading and Sketching	3
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 123	Machine Tool Theory II	3
MTT 124	Machine Tool Practice II	4
MTT 141	Metals and Heat Treatment	3
MTT 147	Tool and Cutter Grinding	2
<b>C. Other Required Courses: 4 credits</b>		
EGT 111	Mechanical Drawing I	2
WLD 102	Introduction to Welding	2
<b>D. Electives: 8 credits</b>		
Electives		8