

# Machine Tool Technology, A.A.S.

The Associate of Applied Science degree in Advanced Manufacturing with a concentration in Machine Tool Technology is a study of the process of using machine tools to manufacture useful products and parts. Students will acquire specialized knowledge and skills in many areas including mathematics, print reading, physics, measuring instruments, cutting tools, and machine tools. Graduates will have the ability to turn rough material into precision finished products and parts.

**Subject:** Advanced Manufacturing

**Program Code:**

AAS-ADMA-MTT

**CIP:**

15.0613

**Type:** A.A.S.

## GENERAL EDUCATION CORE REQUIREMENTS

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
ENG 101	English Composition I	3
MTH 103	Introduction to Technical Mathematics	3
	Humanities/Fine Arts Elective (Excluding Speech and Foreign Language)	3
	Social & Behavioral Science Electives	3
	Natural Science or MTH Elective	3-4

## ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
ADM 101	Precision Measurement	3
ADM 104	Introduction to Thermal/Electrical Principles	3
ADM 105	Fluid Systems	3
ADM 106	Quality Control Concepts	3
	ADM 107 OR ADM 108	3
ADM 111	Manufacturing Safety Practices	3

## MACHINE TOOL CORE CLASSES

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
MTT 121	Basic Blueprint Reading for Machinists	3
MTT 138	Milling I Lab	3
MTT 147	Introduction to Machine Shop I	3
MTT 148	Introduction to Machine Shop I Lab	3
MTT 149	Introduction to Machine Shop II	3
MTT 150	Introduction to Machine Shop II Lab	3

## MACHINE TOOL ELECTIVES: Choose 18 credits

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
	MTT 140 and MTT 243	6
	MTT 141 and MTT 241	6
	MTT 212 and MTT 244	6
	MTT 213 and MTT 242	6
MTT 219	Computer Numerical Control Graphics: Turning	3
MTT 220	Computer Numerical Control Graphics: Milling	3
MTT 107	Machining Calculations I	3
	MTT 162 and MTT 163	6
	<b>Total credits:</b>	<b>69-70</b>