



## Machining and Manufacturing Technology

### Associate in Applied Science Degree

#### 100-107 Credits

This degree program is designed for both the new student entering the field of manufacturing and for the current employee who wishes to learn more about the knowledge and skills currently in demand by employers.

A graduate of the program will be prepared for entry into the manufacturing industry as a conventional or CNC (Computer Numerical Control) machinist trainee. Instruction covers conventional turning, milling and grinding, as well as basic programming, set up and operation of CNC machine tools. Other subjects include shop safety, reading engineering drawings, shop mathematics, machine tool theory, inspection and surface plate techniques, as well as lean manufacturing and other skills currently required by the manufacturing industry.

Credit for hours of training is usually granted to those entering an approved apprenticeship program. Entry into the program at any time is possible on a space-available basis with instructor's permission.

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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
# ACOMP 101 <b>or</b> MATH 072 <b>or</b>	Computations for the Trades <b>or</b> Elementary Algebra <b>or</b> Eligible for MATH 097, Intermediate Algebra	0-5
##*BUS 166 <b>or</b>	Human Relations and Work Readiness <b>or</b>	
* CMST 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
* CMST& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
* CMST 217 <b>or</b>	Communication for Business and Professions <b>or</b>	
* CMST& 220 <b>or</b> CMST 238	Public Speaking <b>or</b> Intercultural Communication	5
##*CMST 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
* CMST& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
* CMST& 220 <b>or</b>	Public Speaking <b>or</b>	
* CMST& 230	Small Group Communication	5
# ENGL&101 <b>or</b>	English Composition I <b>or</b>	
ENGL 109	Writing for Trades and Professional/Technical Degrees	5
INDUS 111	Welding Survey 1	3
MFG 101 <b>or</b> AAM 101	Introduction to Machining and Manufacturing <b>or</b> Principles of Precision Machining 1	13
MFG 102	Conventional Milling and Turning	13
MFG 103 <b>or</b> AAM 102	Conventional and CNC Machining Level 1 <b>or</b> Principles of Precision Machining 2	13
MFG 104	Conventional and CNC Machining Level 2	13
MFG 105	Intermediate CNC Machining	13

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MFG 106 <b>or</b> MFG 177	Special Machining Practices <b>or</b> Manufacturing Work Experience	13
MFG 115	Reading Engineering Drawings	2
MFG 162 <b>or</b> I E 189	Applied Materials for Manufacturing <b>or</b> Basic Metallurgy	2-4

**Electives:** *To enhance the learner's preparation for future employment, we recommend the following:*

BTAC 111	Introduction to Computer Literacy	5
D T 115	Geometric Dimensioning and Tolerancing	4

# Satisfies related instruction requirements.

\* Students who are planning to take CMST 100, CMST& 210, CMST& 220 or CMST& 230 can only count it as meeting either **only** the Related Instructions Oral Communication **OR** **only** the Human Relations requirements.