



## Maintenance Mechatronics Associate in Applied Science Degree 97-104 Credits

This degree program is designed for both the new student entering the field of machine maintenance and for the current maintenance 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 maintenance field as a maintenance technician or assistant. Instruction covers the basic energy types that animate and/or control machinery. These energy types are mechanical energy (solids), hydraulics, pneumatics and electrical. The student will become familiar with machinery components that conduct, control and apply the various energy types, their related graphic symbols, and the blueprints and schematics which utilize them for graphic communication.

The courses will examine, explain and utilize basic analytical methods and concepts that are critical to safely and efficiently work in the dynamic high energy world of industrial machinery.

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	Computations for the Trades <b>or</b> Elementary Algebra <b>or</b> Eligible for MATH 097, Intermediate Algebra	0-5
BTAC 100	Fundamentals of Computers	5
BTAC 111	Introduction to Computer Literacy	5
*#BUS 166 <b>or</b> CMST 100 <b>or</b> CMST& 210 <b>or</b> CMST& 220 <b>or</b> CMST 238	Human Relations and Work Readiness <b>or</b> Fundamentals of Written Communication <b>or</b> Interpersonal Communication <b>or</b> Public Speaking <b>or</b> Intercultural Communication	5
*#CMST 100 <b>or</b> CMST& 210 <b>or</b> CMST& 220 <b>or</b> CMST& 230	Fundamentals of Oral Communication <b>or</b> Interpersonal Communication <b>or</b> Public Speaking <b>or</b> Small Group Communication	5
# ENGL& 101 <b>or</b> ENGL 109	English Composition I <b>or</b> Writing for Trades and Professional/Technical Degrees	5
INDUS 111	Welding Survey 1	3
MFG 101 <b>or</b> AAM 101	Introduction to Manufacturing and Machining <b>or</b> Principles of Precision Machining 1	13

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MFG 115	Reading Engineering Drawings	2
MFG 162 or I E 189	Applied Materials for Manufacturing or Basic Metallurgy	2-4
MTX 100	Maintenance Mechatronics 1	13
MTX 110	Maintenance Mechatronics 2	13
MTX 120	Maintenance Mechatronics 3	13
MTX 130	Maintenance Mechatronics 4	13

# Satisfies related instruction requirements.

\* Students who are planning to take CMST 100, CMST& 210, or CMST& 220 will **only** be able to count it as either fulfilling the Oral Communication or the Human Relations credit requirement of the Related Instruction requirements.