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## Manufacturing Tech / Maintenance Associate in Applied Science



**Engineering/Manufacturing &  
Industrial Technology**

This Associate in Applied Science degree program is designed to provide the theoretical knowledge and the hands-on experience necessary to be successful in the increasingly technical area of manufacturing and/or industrial maintenance. Many of the courses in this curriculum coincide with the Academy for Manufacturing Careers BAT certificate program making this an ideal continuation after completion of your journeyman's certificate.

Minimum credits:	63
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO agreement:	No

### GENERAL EDUCATION REQUIREMENTS – (23 credits)

#### ENGLISH – (3 credits)

ENG 131 Writing Experience	3
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#### MATHEMATICS – (3 credits)

MTH 131 Intermediate Algebra or higher	5
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#### SCIENCE – (4 credits)

PHY 131 Conceptual Physics	4
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#### SOCIAL SCIENCE – (9 credits)

ECN 232 Microeconomics	3
PLS 141 American National Government	3
SOC 231 Principles of Sociology	3

#### HUMANITIES – (3 credits)

PHL 231 Introduction to Philosophy	3
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#### HEALTH/PHYSICAL FITNESS – (1 credit)

HPF 160 Wellness	1
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### MANUFACTURING TECH/ MAINTENANCE RELATED REQUIREMENTS – (27 credits)

ENG 232 Technical & Business Writing	3
ELT 070 Basic Industrial Electricity	2
MFG 020 Robotics & Material Handling	2
MFG 060 Geometry for Manufacturing	2
MFG 065 Trigonometry for Manufacturing	2
MFG 170 Hydraulics/Pneumatics	4
MFG 185 Maintenance & Troubleshooting	2
MFG 190 Drive Components & Bearings	2
MFG 255 Basic PLC	2
MFG 260 Industrial Wiring	3
SPH 231 Communication Fundamentals	3

### MANUFACTURING TECH/ MAINTENANCE CORE REQUIREMENTS – (13 credits)

MFG 005 Technical Problem Solving	2
MFG 025 Basic Computer Skills	3
MFG 105 Blueprint Reading	2
MFG 115 GD&T	2
MFG 160 Materials/Metallurgy	2
MFG 200 Basic Gauges and Measurement	2