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Manufacturing Tech / Machining 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 production machining. 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:	61
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/ MACHINING RELATED REQUIREMENTS – (25 credits)

ENG 232 Technical & Business Writing	3
MFG 060 Geometry for Manufacturing	2
MFG 065 Trigonometry for Manufacturing	2
MFG 150 Machining Theory & Methods	4
MFG 155 Machining Handbook	2
MFG 165 Precision Machining Methods	4
MFG 175 CNC Theory & Programming	2
MFG 180 EDM Theory	3
SPH 231 Communication Fundamentals	3

MANUFACTURING TECH/ MACHINING 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