



Engineering/Manufacturing & Industrial Technology Pathway

Machine Builder Associate in Applied Science

Minimum credits: 60
Minimum cumulative GPA: 2.0
Minimum JCC credits: 12
MACRAO agreement: No

GENERAL EDUCATION REQUIREMENTS (17 credits)

ENGLISH (3 credits)

ENG 131 Writing Experience 3

MATHEMATICS (3 credits)

MTH 131 Intermediate Algebra or higher 3

SCIENCE (4 credits)

PHY 231 College Physics I 4

SOCIAL SCIENCE (3 credits)

Choose one of the following:

PLS 141 American National Government 3

ECN 231 Macroeconomics 3

HUMANITIES (3 credits)

Choose one of the following:

PHL 231 Introduction to Philosophy 3

PHL 232 Logic 3

HEALTH/PHYSICAL FITNESS (1 credit)

Choose one of the following:

HPF 160 Wellness 1

HPF 168 Weight Training & Conditioning 2

HPF 221 Jazz Techniques 3

HPF 277 Stress Management 2

HPF 278 Stress Management for Parents 2

TECHNICAL REQUIREMENTS

REQUIRED COURSES

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|---------|-------------------------------|---|
| RTI 012 | Math II - Algebra | 2 |
| RTI 051 | Machining Theory | 2 |
| RTI 054 | Machining Methods | 4 |
| RTI 020 | Blue Print Reading I | 2 |
| RTI 013 | Math III - Geometry | 2 |
| RTI 014 | Math IV - Trigonometry | 2 |
| RTI 021 | Blue Print Reading II | 2 |
| RTI 080 | Metallurgy & Heat Treatment | 2 |
| RTI 090 | Machinery Handbook | 2 |
| RTI 070 | Basic Industrial Electricity | 2 |
| RTI 260 | Industrial Physics | 2 |
| RTI 163 | Hydraulics/Pneumatics | 2 |
| RTI 031 | Jig & Fixture Design | 2 |
| RTI 157 | Programmable Controllers | 4 |
| RTI 036 | Drive Components and Bearings | 2 |
| RTI 081 | Welding I | 4 |
| RTI 082 | Welding II | 4 |

ADDITIONAL REQUIREMENTS

EMS 110 CPR & First Aid 2
or current Adult CPR & First Aid Certification

ELECTIVES

Complete elective credits in any discipline to reach 60 credits.