



## Engineering/Manufacturing & Industrial Technology Pathway

### Die Designer 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

RTI 012	Math II - Algebra	..... 2
RTI 013	Math III - Geometry	..... 2
RT 020	Blue Print Reading I	..... 2
RTI 050	Machine Theory I	..... 2
RTI 051	Machining Theory	..... 2
RTI 028	Drafting	..... 2
RTI 014	Math IV - Trigonometry	..... 2
RTI 021	Blue Print Reading II	..... 2
RTI 054	Machining Methods	..... 4
RTI 260	Industrial Physics	..... 2
RTI 090	Machinery Handbook	..... 2
RTI 070	Basic Industrial Electricity	..... 2
RTI 031	Jigs & Fixture Design	..... 2
RTI 052	Theory of Programming NC Machine Tools	..... 2
RTI 080	Metallurgy & Heat Treatment	..... 2
RTI 053	Theory of Chipless Machining	..... 2
RTI 163	Hydraulics/Pneumatics	..... 2
RTI 030	Die Theory and Design I	..... 4
RTI 034	Die Theory and Design 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.