



Engineering/Manufacturing & Industrial Technology Pathway

Manufacturing Technology with Machine Tool Option Associate in Applied Science

Designed for students who plan to enter an occupation upon graduation. Manufacturing Technology students learn to solve problems by applying a variety of technical skills. The student may elect to concentrate on numerical control or machine tool technology. A certificate is granted in the area of choice.

Minimum credits: 62
Minimum cumulative GPA: 2.0
Minimum JCC credits: 12
MACRAO agreement: No

GENERAL EDUCATION REQUIREMENTS (17 credits)

ENGLISH (3 credits)

ENG 131 Writing Experience3

MATHEMATICS (3 credits)

MTH 131 Intermediate Algebra or higher
level mathematics course3

SCIENCE (4 credits)

PHY 231 College Physics I4

SOCIAL SCIENCE (3 credits)

Choose one of the following:

PLS 141 American National Government3
ECN 231 Macroeconomics3

HUMANITIES (3 credits)

Choose one of the following:

PHL 231 Introduction to Philosophy3
PHL 232 Logic3

HEALTH/PHYSICAL FITNESS (1 credit)

Choose one of the following:

HPF 160 Wellness1
HPF 168 Weight Training & Conditioning2
HPF 221 Jazz Techniques3
HPF 277 Stress Management2
HPF 278 Stress Management for Parents2

RELATED REQUIREMENTS (10 credits)

ENG 132 Writing Experience3
or ENG 232 Technical & Business Writing3
ITE 083 Windows Workshop1
or ITE 049 Windows NT Workshop1
MTH 132 Plane Trigonometry2
MTT 143 Fundamentals of Drafting2
MTT 118 Industrial Print Reading/Geometric
Dimensioning and Tolerancing2

MACHINE TOOL TECHNOLOGY (31 credits)

MTH 120 Beginning Algebra4
MTT 105 Machine Tool Technology I4
MTT 106 Machine Tool Technology II4
MTT 110 Production Machining4
MTT 112 Tool Room Machining4
MTT 133 Metallurgy3
NCT 121 Introduction to Numerical Control2
NCT 123 Numerical Control Machine Tool Operations .3
WLD 101 Basic Welding3

TECHNICAL ELECTIVES

Select classes from CAD, EET, ITE, NCT, MTT, QCT, RTI, or WLD to meet your 62 credit degree requirement.