#### Precision Machining & Manufacturing

**Degree Program**

**MT13**

**Curriculum**

**General Education Core – Total of 15 Hours**

**Area I – Language Arts/Communications – Choose 3 Hours**

ENGL 1101 Composition & Rhetoric (3)

**Area II – Social/Behavioral Sciences – Choose 3 Hours**

ECON 1101 Principles of Economics (3)
ECON 2105 Macroeconomics (3)
ECON 2106 Microeconomics (3)
HIST 1111 World History I (3)
HIST 1112 World History II (3)
HIST 2111 U.S. History I (3)
HIST 2112 U.S. History II (3)
POLS 1101 American Government (3)
POLS 2401 Global Issues (3)
PSYC 1101 Introductory Psychology (3)
SOCI 1101 Introduction to Sociology (3)

**Area III – Natural Sciences/Mathematics – Choose 3 Hours**

MATH 1101 Mathematical Modeling (3)
MATH 1103 Quantitative Skills/Reasoning (3)
MATH 1111 College Algebra (3)

**Area IV – Humanities/Fine Arts – Choose 3 Hours**

ARTS 1101 Art Appreciation (3)
ENGL 2110 World Literature (3)
ENGL 2130 American Literature (3)
HUMN 1101 Intro to Humanities (3)

**General Education Core Electives – Choose 3 Hours**

MATH 1103 Quant. Skills/Reasoning (3)
MATH 1111 College Algebra (3)
MATH 1112 College Trig (3)
MATH 1113 Precalculus (3)
MATH 1127 Intro to Statistics (3)
MATH 1131 Calculus I (4)
MUSC 1101 Music Apprec. (3)
PHYS 1110(L) Conc. Phys + Lab (4)
POLS 1101 American Govt. (3)
POLS 2401 Global Issues (3)
PSYC 1101 Intro Psychology (3)
PSYC 2103 Human Develop. (3)
RELG 1101 World Religions (3)
SOCI 1101 Intro to Sociology (3)
SPAN 1101 Intro to Spanish (3)
SPCH 1101 Public Speaking (3)

**Program-Specific Core – Total of 48 Hours**

MCHT 1011 Intro to Machine Tool (4)
MCHT 1012 Print Reading for Machine Tool (3)
MCHT 1020 Heat Treatment/Surface Grind (4)
MCHT 1013 Machine Tool Math (3) - OR -
MCHT 1013 Algebraic Concepts (3)
MCHT 1015 Geometry & Trigonometry (3) { BOTH }
MCHT 1119 Lathe Operations I (4)
MCHT 1120 Mill Operations I (4)
MCHT 1219 Lathe Operations II (4)
MCHT 1220 Mill Operations II (4)
AMCA 2110 CNC Fundamentals (4)
AMCA 2130 CNC Mill Manual Programming (5)
AMCA 2150 CNC Lathe Manual Programming (5)
AMCA 2190 CAD/CAM Programming (4)

**Occupational-Related Elective – Choose 3 Hours**

Any AMCA Course not required in program
Any MCHT Course not required in program
COMP 1000 Introduction to Computers (3)
ACCT 1100 Financial Accounting I (4)
DFTG 1101 CAD Fundamentals (4)
IDSY 1130 Industrial Wiring (4)
MGMT 1101 Principles of Management (3)
MKTG 1100 Principles of Marketing (3)
WELD 1000 Intro to Welding Technology (4)

**Total: 66 Hours**

Graduation requirement includes completion of a total of 66 hours in the above areas
Precision Machining & Manufacturing
Degree Program
MT13

Program Description
The Precision Machining & Manufacturing Degree program is a sequence of courses that prepares students for careers in the machine tool technology field. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of machine tool theory and practical application necessary for successful employment. Program graduates receive a Precision Machining & Manufacturing Associate of Applied Science Degree and have the qualification of a machine tool technician.

Program Specific Information
Students are accepted every semester based on course and space availability.

Program Length & Availability
4 Semesters
Campus Availability: Hall

Admissions Requirements
• Must be 16 years of age.
• High school diploma or GED is required prior to admission.
  *(Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)*
• ACCUPLACER Testing, or submit SAT, ACT, CPE, COMPASS, or ASSET test scores.

Financial Aid
This program is eligible for the Pell Grant and may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

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