

Machine Tool Collaborative Program Courses (5 semesters for degree plus 1 for Advanced CNC Certificate)

Semester 1

ADM 101 Precision Measurement

MTT 147 Introduction to Machine Shop I

MTT 148 Introduction to Machine Shop I Lab

MTT 138 Milling I Lab

MTT 121 Basic Blueprint Reading for Machinists

Semester 2

ENG101 English Composition

*MTH 100 Intermediate College Algebra

ADM 111 Manufacturing Safety Practices

MTT 149 Introduction to Machine Shop II

MTT 150 Introduction to Machine Shop II Lab

Semester 3

*MTH 103 Introduction to Technical Mathematics

MTT 141 Basic CNC Milling

MTT 241 CNC Milling Lab I

ADM 106 Quality Control Concepts

Semester 4

MTT 140 Basic CNC Turning

MTT 243 CNC Turning Lab I

ADM 105 Fluid Systems

ADM 108 Intro to 3D Modeling

Social Science Elective

Semester 5

MTT 213 Advanced CNC Milling

MTT 242 CNC Milling Lab II

MTT 212 Adv. CNC Turning

ADM 104 Intro. To Thermal/Electrical Principals

Humanities Elective

Total Credits 72

*If student plans to pursue a bachelor's degree or further education MTT 112 Precalculus Algebra and MTT 113 Precalculus Trigonometry can be substituted.

Advanced CNC Certificate - Semester 6

MTT 219 CNC Graphics: Milling (Advanced Cad Cam)

MTT 220 CNC Graphics Turning (Advanced Cad Cam)

MTT 281 Special Topics (Intermediate 3D Modeling)

MTT 282 Special Topics (Multi-axis machining)

Total Credits 12