

MACHINE TOOL TECHNOLOGY: NUMERICAL CONTROL MACHINE OPERATOR OPTION (A.S.)

of 60 units. Students must earn a 2.0 grade point average and earn a grade of "C" or higher in major/emphasis courses.

ASSOCIATE OF SCIENCE

The Numerical Control Machine Operator - Associate of Science Degree program provides students an education that combines general education with a technical education in basic and advanced training in set up and operations of numerical control machining and quality control. These fundamental skills and expected knowledge prepare students for employment with potential for future advancement in the metal working industry. Enrolled students are strongly positioned for employment in the machining industry throughout the course of the Program. Employment opportunities are available in manufacturing companies where automation systems are utilized. Typical job titles can include but not limited to Machine Operators, Machinist, Manufacturing Technicians, Operations Technicians.

Program Student Learning Outcomes

- Students apply industry standard safety practices and specific safety requirement for different machining operations.
- Students complete industry standard inspection report.
- Students inspect the produced part to ensure completion per blueprint requirement.
- Students interpret blueprint information and translate it into actionable items.
- Students perform basic setup and operation of CNC lathe & mill.
- Students perform setup and operation of manual machines, such as band saw, lathe, mill, and drill press.

Program Requirements

Code Number	Course Title	Units
Required Courses		
MTT 100	Machine Tool Introduction	2.0
MTT 130	Quality Practices and Measurement	2.0
MTT 131	Geometric Tolerance Inspection using Verisurf	3.0
MTT 140	Industrial and Machine Tool Safety	1.0
MTT 151	Mastercam Introduction	3.5
MTT 152	Setup and Operation of CNC Milling Machines	2.5
MTT 157	Setup and Operation of CNC Lathes	2.5
MTT 191L	CNC Mill Machining Laboratory	1.0
MTT 195L	CNC Lathe Machining Laboratory	1.0
Total Units		18.5

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

Complete 60 units to include (1) the above required courses, (2) Complete the General Education requirements and electives to achieve a minimum