

2023-24 ACADEMIC PROGRAMS

2023-2024 MACHINE TOOL SETUP AND OPERATION (CTMTSO)

Description

In this program, students learn to setup and operate CNC machine tools, traditional mills, lathes, and saws. They learn how to use basic measurement tools and read blueprints. This certificate will highlight the fundamentals of materials and processes including mechanical and physical testing and heat treatment of ferrous and non-ferrous metals. Students completing this certificate will be able to perform many of the fundamental tasks within a fabrication shop, including simple part manufacturing, set-up and operation of CNC machine tools as well as inspection using simple measurement tools.

Course Requirements

Major/Area Requirements

Class	Title	Minimum Credits
MEC 100	Materials and Processes	3
MEC 101	Blueprint Reading for Manufacturing	2
MEC 201	Mechanisms	2
MTT 102	Machining for the Technologies	2
MTT 111	Machine Shop Theory and Practice	4
NCT 101	Introduction to Computerized Machining (CNC) - I	2
NCT 110	Introduction to Computerized Machining (CNC) - II	2
Total		17

Total Credits Required: 17

Accurate as of 02/16/2024 Information is subject to change without notice.