

## 2022-23 ACADEMIC PROGRAMS

### 2022-2023 ADVANCED MACHINE TOOL PROGRAMMING (CVMTPA)

#### Description

In this program, students will learn advanced CNC programming skills. Students will practice the fundamentals of Intuitive Probing Systems (IPS) and Visual Quick Code (VQC) needed to create machine tool programs. Starting with 2D and 3D CAM programming and advancing to 4th and 5th axis machining, students will learn the proper methods for creating tool paths.

#### Admissions Requirements

Completion of the Machine Tool Programming (CNC) certificate.

#### Course Requirements

#### Major/Area Requirements

Class	Title	Minimum Credits
MEC 120	3D-Printing: Machine, Process and Innovation	4
NCT 255	Probes, Macros and Conversational Programming for CNC	4
NCT 259	MasterCam 2D and 3D CAM CNC Programming for Mills	4
NCT 269	4 and 5 Axis Machining for the CNC Vertical Mills	4
Total		16

#### Total Credits Required: 16

Accurate as of 02/22/2023 Information is subject to change without notice.