

MASTERCAM SKILLS CERTIFICATE

PROGRAM CODE: 2C00046

The Mastercam Skills Certificate Program is designed for students wishing to further pursue a career in machining or manufacturing with an emphasis in Mastercam programming. This type of Certificate Program typically leads to entry to intermediate level careers as a machinist, toolmaker, CNC operator, CNC programmer, manufacturing engineer, process engineer, field service technician as well as a number of other manufacturing/service positions. This certificate requires a total of 6 units. Both classes must be completed with a grade of C or better.

| Code | Title | Units |
|------------------------------------|---|----------|
| Required Courses (6 units): | | |
| MACH 150 F | CNC Programming Using Mastercam (formerly MACH 050 F) | 3 |
| MACH 152 F | Advanced CNC Programming Using Mastercam (formerly MACH 052 F) | 3 |
| Total Units | | 6 |

Outcome 1: Demonstrate the ability to organize and construct geometry of 3D model parts for machining operations to evaluate tool paths.

Outcome 2: Demonstrate proficiency in Mastercam programming by preparing numerical control programs for CNC machine tools to machine piece parts per drawing specifications.

Outcome 3: Evaluate and select tools for the material removal process and tool paths in the Mastercam program to produce rough and finish machining operations.

[https://www.curricunet.com/fullerton/reports/program_report.cfm?
programs_id=784](https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=784)