

# SURFCAM SKILLS CERTIFICATE

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**PROGRAM CODE:** 2C00047

This **Surfcam Skills Certificate** program is designed for students wishing to further pursue a career in machining or manufacturing with an emphasis in Surfcam 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
<b>Required Courses (6 units):</b>		
MACH 154 F	CNC Programming Using Surfcam (formerly MACH 060 F)	3
MACH 156 F	Advanced CNC Programming Using Surfcam (formerly MACH 062 F)	3
<b>Total Units</b>		<b>6</b>

**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 Surface programming by preparing numerical control programs for CNC machine tools to machine piece parts per drawing.

**Outcome 3:** Evaluate and select tools for the material removal process and toolpaths in the Surface program to produce rough and finish machining operations.

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programs\\_id=783](https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=783)