

Course Objectives/Course Outline
Spokane Community College

Course Title: Shop VI
Prefix and Course Number: MACH 232

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Use CAM software to write intermediate programs for CNC mills and lathes
- Successfully and accurately prepare CNC mills and lathes to machine complex parts
- Demonstrate ability to program, setup and run programs using a 4th axis rotary device

Course Outline:

I. MASTERCAM SOFTWARE

- A Import Solid Models
- B Create Programs From A Solid Model
- C Use Work Coordinate System (WCS)
- D Use High Speed Toolpaths
- E Create 3D Surface Toolpaths
- F Create 4th Axis Programs

II. CNC MILL AND LATHE

- A Setup A Rotary 4th Axis Device
- B Produce A Part Using A Rotary Device
- C Produce A Part With A 3D Machined Surface
- D Program The Lathe To Operate A Bar Puller