

Manufacturing Principles 1

Manufacturing Principles is an introduction to manufacturing processes and the skills needed to work in a modern, high tech manufacturing environment. Manufacturing is happening all around you! Companies in Utah manufacture airplane parts, sunglasses, roller coasters, sporting goods, outdoor recreation equipment, and medical devices.

The Manufacturing Principles class:

- Is required for the Utah Aerospace Pathway (UAP)
- Is required for the Medical Device Manufacturing Pathway
- Is a great introduction to a variety of manufacturing processes and skills!

Students will:

- Learn and apply shop safety per OSHA requirements
- Run a part on the CNC mill
- Learn basic CAD modeling to produce 3D computer models
- Create physical models with 3D Printing and Injection Molding
- Learn the basics of Lean Manufacturing and 5S



Grade level: 10, 11, 12

Location: Northridge High School

Course length: 1 semester

Instructor: Kurt Jensen
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Credit: 1.0 credit of CTE