

MACHINING TECHNOLOGY

The machinist's craft is basic to all American industrial production. It is the machinist's task to interpret the engineer's drawings in order to fabricate new machines and products.

Machinists operate various types of material-removing equipment such as lathes, milling machines, grinders, and computerized numerical control (CNC) machines. Some machinists specialize in the operation of one type of machine while others work in a shop where they are required to perform equally well on several different machines.

Clark College's program offers instruction in numerous machine processes including the set-up and operation of the engine lathe, surface grinders, vertical mill, CNC lathes, CNC milling machines, and 4 & 5 axis mill attachment.

All shop theory subjects have a direct bearing on the student's skill, safety, and attitude. In addition to shop theory and practice, the student studies math, blueprint reading, metallurgy, safety, and computer-aided manufacturing (CAM) programming.

MasterCAM programming classes teach basic CAM programming for CNC lathe, CNC mills, 4 & 5 axis mill attachment etc. The basic CNC class involves writing programs and learning to safely operate the HAAS CNC mills and lathes..

Students must complete all Major Area Requirements and specifically listed courses with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

- Manual Machining (CA) (<https://catalog.clark.edu/academic-plans/machining-technology/manual-machining-ca>)
- Machining Technician (CP) (<https://catalog.clark.edu/academic-plans/machining-technology/machining-technician-cp>)
- Machining Technologies (AAS) (<https://catalog.clark.edu/academic-plans/machining-technology/machining-technologies-aas>)
- Machining Technologies (AAT) (<https://catalog.clark.edu/academic-plans/machining-technology/machining-technologies-aat>)