



Design and Production Technology

DESIGN AND PRODUCTION TECHNOLOGY allows students to explore the creative and technical process used in industry to design, test and produce the products purchased by consumers everyday. An emphasis is placed on hands-on skill development, providing the student with the skills and confidence to obtain employment.

Work Environment

Computer controlled machinery provides students with greater success in design and machining as well as industry standard experience. Students may work in one of many machine shops, manufacturing plants, and jewelry repair shops that exist in our area.

Career Opportunities:

Mechanical Assembler
Parts Production Worker
Engraver
Milling Machine Operator
Jewelry Bench Worker
Buffing Machine Operator
CAD Machine Operator

Employment Outlook

For the most up-to-date employment outlook in this career or a related field, see Occupational Outlook Handbook: US Bureau of Labor on the website: www.bls.gov/ooh/

Course Outline:

- Computer Aided Design (CAD)
- Computer Aided Machining (CAM)
- Lathe and Band Saw Operation
- Engraving Machine Skills
- Fine Investment Casting (Jewelry Production)
- Injection Molding Plastics/Wax
- Entry-level Welding
- Buffing Machine Operation
- CNC Lathe
- Drill Press Operation
- Milling Machine Operation
- Power Hack Saw Operation
- Bench Assembly
- Basic Blueprint Reading
- Foundry and Fine Casting