People with careers in Production work on the shop floor making parts or assembling them in various industrial settings. They work with machines, making or assembling electronic parts, constructing or assembling modular housing, performing welding jobs, or printing various materials.

**Major Courses**

Students must take THREE pathway concentration courses and ONE additional pathway elective course.

**Pathway Concentration Courses (3):**
- Arc Welding I
- Electrical Systems I*
- Introduction to Manufacturing/Engineering Sciences
- Introduction to Precision Machining
- Mechanical/Electrical Systems I

**Pathway Elective Courses (1):**
- Apprenticeship/Internship
- Electrical I*
- Foundations of Engineering and Technology (formerly Introduction to Technology)
- Introduction to Construction* (formerly Introduction to Building)
- Occupational Safety & Fundamentals (formerly Fundamentals of Construction)
- Other Pathway Concentration Course

**Other Recommended Courses**

- Algebra I
- Informal Geometry
- Modern Language
- Physical Science
- Pre-Algebra

**Post-Secondary Degrees, Diplomas & Certificates**

**Technical Colleges**
- Electrical Control Systems
- Industrial Mechanical Technology
- Industrial Motor Control
- Machine Tool Technology
- Welding & Joining Technology

**Colleges/Universities**
- Applied Science in Technology
- Design Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering

**Assemblers**
- Bookbinders
- Calibration Technicians
- Electric Installers and Repairers
- Hoists and Winch Operators

**Instrument Makers**
- Machine Operators
- Hand Packagers and Packers
- Precision Optical Goods Workers

**Managers**
- Millwrights
- Medical Appliance Makers
- Precision Layout Workers

**Supervisors**
- Painters
- Pattern & Model Makers
- Tool and Die Makers

**Production Associates**
- Welders
- Solderers and Brazers
- Automated Manufacturing Techs

**Sheets Metal Workers**
- Repairers
- Equipment Assemblers
- CNC Operators

**Electrical Installers**
- CNC Technicians
- CNC Programmers
- Automated Manufacturing Techs

**Machinists**
- Apprenticeships/Internships
- Technical Training

**EMPLOYMENT OUTLOOK**

Individuals with a broad range of skills or a specific skill that cannot be automated will experience job growth and find their services in demand. Welders, tool and die makers, and multiple machine operators are examples of these growth occupations.

* Pre-requisites noted in course descriptions.