

## High School to College and Career Pathway: Secondary Career and Technical Education

### Skilled and Technical Sciences Education Pathways

Aerospace Manufacturing

Cabinetmaking/Millwork

Graphics/Printing

Machine Tool

Welding

#### Pathway: Precision Production Trades – Aerospace Manufacturing

**Foundation Courses:**

(3.00 credit required)

- CAD Mechanical Design 1 – .50
- Composites 1 – .50
- CTE Internship – .50
- Leadership Principles – .50
- Manufacturing Principles 1 – .50
- Metalworking 1 \* – .50

\* Course can be taken up to 1.00 credit.

#### Pathway: Precision Production Trades – Cabinetmaking/Millwork

**Foundation Courses:**

(1.00 credit required)

- Furniture Design & Mfg. \* – 1.00
- Woodworking \* – .50

**Elective Courses:**

(2.00 credits required)

- Accounting 1 – .50
- Business Management – .50
- Carpentry 1 – 1.00
- CAD Architectural Design 1 – .50
- CAD Mechanical Design 1 – .50
- Cabinetmaking – 1.00
- Commercial and Advertising Art \* – .50
- Design and Visual Communications \* – .50
- Entrepreneurship – .50

- Industrial Design – 1.00
- Machining 1 \* – .50
- Machining 2 \* – .50
- Metalworking 1 \* – .50
- PLTW Civil Engineering and Architecture – 1.00
- PLTW Engineering Design and Development – 1.00
- Welding Technician – Entry Level \* – .50
- Workplace Skills – .50

\* Course can be taken up to 1.00 credit.  
**3.00 credits required for completion**



#### Pathway: Precision Production Trades – Graphics/Printing

**Foundation Courses:**

(1.00 credit required)

- Adv. Production Graphics – .50
- Digital Print Design \* – .50
- Int. Graphic Communications \* – .50
- Intro. Graphic Communications \* – .50
- Screen Printing Technology \* – .50

**Elective Courses:**

(2.00 credits required)

- Accounting 1 – .50
- Adv. Commercial Photography \* – .50
- Basic Digital Photography \* – .50
- Basic Film Photography \* – .50
- Business Management – .50

- Commercial and Advertising Art \* – .50
- Design and Visual Communications \* – .50
- Digital Media 1 – 1.00
- Entrepreneurship – .50
- Industrial Design \* – .50
- Workplace Skills – .50

\* Course can be taken up to 1.00 credit.  
**3.00 credits required for completion**



#### Pathway: Precision Production Trades – Machine Tool

**Foundation Courses:**

(1.00 credit required)

- Machining 1 \* – .50
- Machining 2 \* – .50

**Elective Courses:**

(2.00 credits required)

- Accounting 1 – .50
- Business Management – .50
- CAD Mechanical Design 1
- CAD Mechanical Design 2
- Entrepreneurship – .50
- Introduction to Automotive \* – .50

- Metalworking 1 \* – .50
- PLTW Computer Integrated Manufacturing – 1.00
- PLTW Engineering Design and Development – 1.00
- Welding Technician – Entry Level \* – 1.00
- Woodworking \* – .50
- Workplace Skills – .50

\* Course can be taken up to 1.00 credit.  
**3.00 credits required for completion**



#### Pathway: Precision Production Trades – Welding

**Foundation Courses:**

(1.00 credit required)

- Welding Tech. – Entry Level \* – .50
- Welding Tech. – Int. Level \* – .50

**Elective Courses:**

(2.00 credits required)

- Accounting 1 – .50
- Business Management – .50
- CAD Mechanical Design 1 – .50
- CAD Mechanical Design 2 – .50
- Electronics 1 – .50
- Entrepreneurship – .50
- Machining 1 \* – .50

- Machining 2 \* – .50
- Metalworking 1 \* – .50
- PLTW Computer Integrated Manufacturing – 1.00
- PLTW Engineering Design and Development – 1.00
- Sheet Metal \* – .50
- Welding Technician – Advanced Level \* – .50
- Workplace Skills – .50

\* Course can be taken up to 1.00 credit.  
**3.00 credits required for completion**



- > Foundation courses taken beyond the required credits can be used as elective credit.
- > Core curriculum and elective requirements may vary district to district.
- > Many CTE courses may qualify for concurrent enrollment credit, which in some cases may earn up to 1.0 credit toward Pathway completion. Talk to your school counselor about availability.
- > Many Utah postsecondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional postsecondary Pathways for details.
- > Visit [UtahCTE.org](http://UtahCTE.org) for additional information.