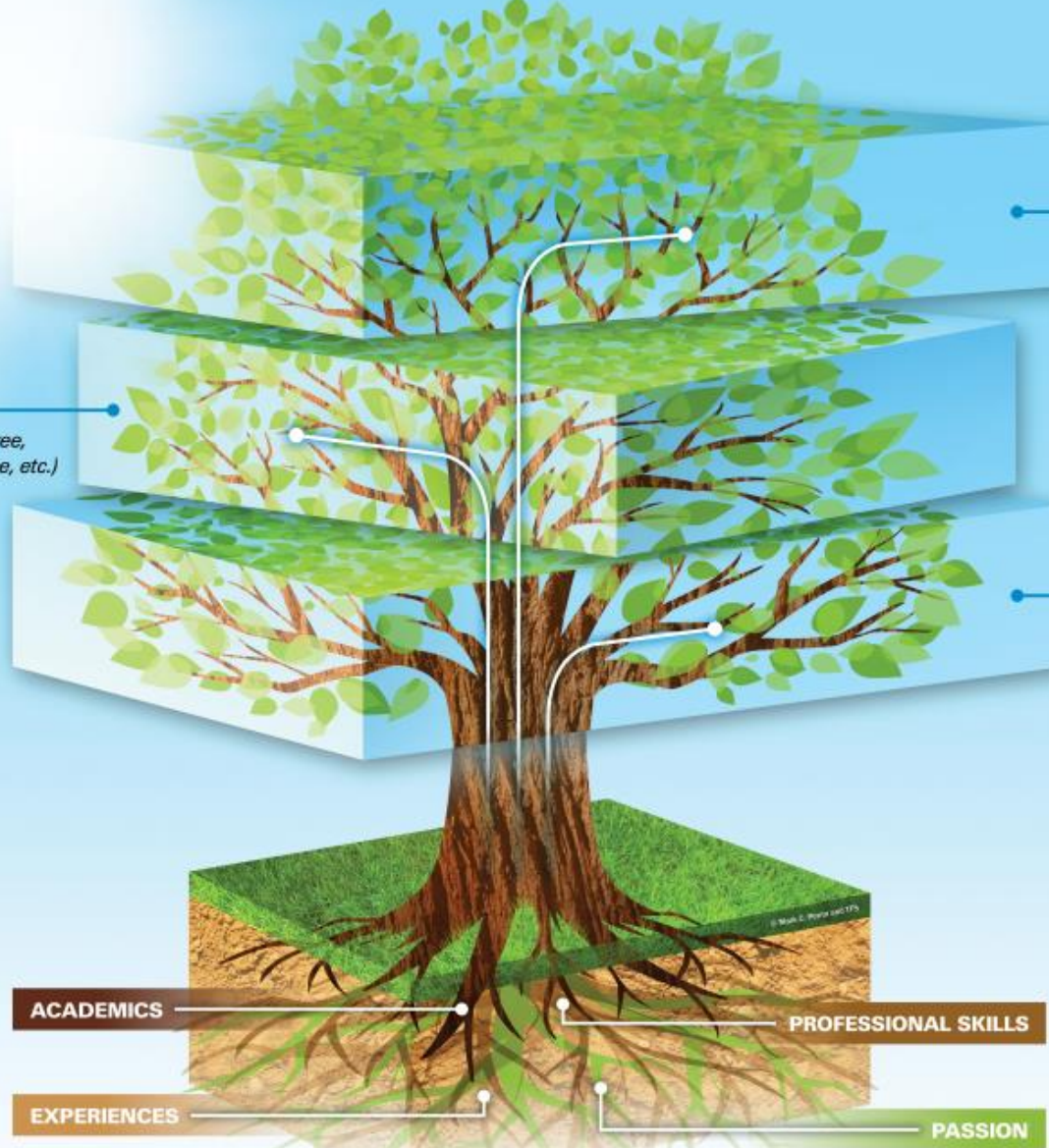




### TECHNICAL CAREERS

*(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)*

- Boilermaker
- AWS Welder
- Non-Destructive Test Administrator
- Field Sales Representative
- CNC Operator
- Certified Welding Inspector
- Fabricator
- Welding Manager/Supervisor
- Blueprint Designer/Reader
- Distributer Salesperson
- Journey-Level Welder
- Welding Equipment Repair Technician



### PROFESSIONAL CAREERS

*(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)*

- Company Owner/Entrepreneur
- Project Engineer
- Certified Pipe Welder
- Certified Welding Inspector
- Instructor
- Equipment & Design
- Post-Secondary Professor
- Fabrication Shop Superintendent
- Corrosion & Materials Engineer
- Robotic Welding Specialist
- Aircraft Welder
- Manufacturer Sales Representative

### ENTRY-LEVEL CAREERS

*(with Program Completion)*

- Welder/Welder Helper
- Apprentice Pipe Welder
- Construction Welder
- Sheet Metal Worker
- Independent Welder
- Fabrication Shop Welder
- MIG/TIG Entry-Level Welder
- Military Service Enlisted Welder
- Industrial Material Handler/Forklift Driver
- AWS Welding Technician
- Pipe Bender/Fitter/Welder
- Welding Inspector Trainee

ACADEMICS

PROFESSIONAL SKILLS

EXPERIENCES

PASSION

# WELDING



For Career Tree® books and materials please visit [TFSresults.com](http://TFSresults.com) and call our team at 303.943.2636.

For Education with Purpose™ Career Tree® books, video, materials, and activities are copyright of Book It! Press and TFS Results. The use of educational assets is hereby acknowledged with permission and is published by us.

# Welding

## Entry-level Pathway, meets FNSBSD graduation requirements

| 9 <sup>th</sup>   |                   | 10 <sup>th</sup>    |                     | 11 <sup>th</sup>   |                      | 12 <sup>th</sup>     |                      | Next Steps  |
|-------------------|-------------------|---------------------|---------------------|--------------------|----------------------|----------------------|----------------------|---|
|                   | English 9         | English 10          | English 10          | American Lit       | English Elective     | Literature           | Professional Writ    | Welder<br>Welder Helper<br>Construction Site Helper<br>Apprentice Pipe Welder |
| Earth Science     | Earth Science     | Biology             | Biology             | Science Elect      | Science Elect        | <i>Open Elective</i> | <i>Open Elective</i> |   |
| Alg. 1.1/Alg I    | Alg 1.2/Alg I     | Alg 1.3 or Geometry | Alg 1.4 or Geometry | Math Elect         | Math Elective        | <i>Open Elective</i> | <i>Open Elective</i> |   |
| Alaska Studies    | Health            | World Hist.         | World Hist.         | US History         | US History           | Government           | Economics            |   |
| PE                | PE                | PE                  | <i>Open Elect.</i>  | <i>Open Elect.</i> | <i>Open Elective</i> | <i>Open Elective</i> | <i>Open Elective</i> |   |
| <b>CTE Course</b> | <b>CTE Course</b> | <b>CTE Course</b>   | <b>CTE Course</b>   | <b>CTE Course</b>  | <b>CTE Course</b>    | <b>CTE Course</b>    | <b>CTE Course</b>    |   |

## Technical Pathway, meets FNSBSD graduation requirements and APS minimum course requirements

| 9 <sup>th</sup>   |                   | 10 <sup>th</sup>  |                    | 11 <sup>th</sup>   |                      | 12 <sup>th</sup>     |                      | Next Steps  |
|-------------------|-------------------|-------------------|--------------------|--------------------|----------------------|----------------------|----------------------|---|
| English 9         | English 9         | English 10        | English 10         | American Lit       | English Elective     | Literature           | Professional Writ    | Apprenticeship<br>UAF CTC<br>UAA CTC<br>AVTECH<br>UAS |
| Earth Science     | Earth Science     | Biology           | Biology            | Chemistry          | Chemistry            | Science Elective     | Science Elective     |   |
| Algebra I**       | Algebra I**       | Geometry**        | Geometry**         | Algebra II**       | Algebra II**         | Math Elective**      | Math Elective**      |   |
| Alaska Studies    | SS Elective       | World Hist.       | World Hist.        | US History         | US History           | Government           | Economics            |   |
| PE                | PE                | PE                | <i>Open Elect.</i> | <i>Open Elect.</i> | <i>Open Elective</i> | <i>Open Elective</i> | <i>Open Elective</i> |   |
| <b>CTE Course</b> | <b>CTE Course</b> | <b>CTE Course</b> | <b>CTE Course</b>  | <b>CTE Course</b>  | <b>CTE Course</b>    | <b>CTE Course</b>    | <b>CTE Course</b>    |   |

## Professional Pathway, meets FNSBSD graduation requirements and APS minimum course requirements

| 9 <sup>th</sup>   |                   | 10 <sup>th</sup>  |                    | 11 <sup>th</sup>   |                      | 12 <sup>th</sup>     |                      | Next Steps                                  |
|-------------------|-------------------|-------------------|--------------------|--------------------|----------------------|----------------------|----------------------|---|
| English 9         | English 9         | English 10        | English 10         | American Lit       | English Elective     | Literature           | Professional Writ    | Apprenticeship<br>UAF CTC<br>UAA CTC<br>UAS |
| Biology           | Biology           | Chemistry         | Chemistry          | Physics            | Physics              | Science Elective     | Science Elective     |   |
| Algebra I         | Algebra I         | Geometry          | Geometry           | Algebra II         | Algebra II           | Math Elective        | Math Elective        |   |
| Alaska Studies    | SS Elective       | World Hist.       | World Hist.        | US History         | US History           | Government           | Economics            |   |
| PE                | PE                | PE                | <i>Open Elect.</i> | <i>Open Elect.</i> | <i>Open Elective</i> | <i>Open Elective</i> | <i>Open Elective</i> |   |
| <b>CTE Course</b> | <b>CTE Course</b> | <b>CTE Course</b> | <b>CTE Course</b>  | <b>CTE Course</b>  | <b>CTE Course</b>    | <b>CTE Course</b>    | <b>CTE Course</b>    |   |

## CTE Courses, Welding (Courses may vary at each high school)

| Foundation Courses   | Pathway Courses | Pathway Courses                                 | Capstone Courses   | Dual Credit |
|--|-----------------|---|--|-------------|
| Tools of Tech & Trade<br>Drafting<br>Careers and Employability | CAD             | Welding I<br><i>Introduction to the Trades*</i> | Welding II<br>Internship<br><i>Introduction to the Trades*</i> | UAF CTC     |

\*\*Alg 1.1/Alg 1.2   Alg 1.3/Alg 1.4   Geometry/Geometry   Algebra II/Algebra II   \*Taught off-site