



DCC
Danville Community College



Pittsylvania Career and Technical Center

Welding

For More Information

Contact:

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Welding

9 th Grade
English 9
World History I or II
Earth Science
Algebra I or Geometry
PE9
Materials & Processes Technology (8433)
Digital Applications 6611
Elective

10 th Grade
English 10
Biology
Geometry, Algebra II, or Algebra Functions & Data Analysis
PE10
Introduction to Business 6035
Elective
Engineering Drawing & Design (8436)
Technical Drawing & Design (8435)

11 th Grade
English 11
US History
Economics & Personal Finance
Algebra Functions & Data Analysis, Adv. Algebra/Trigonometry, or Pre-Calculus
Fall Semester
Welding I (8672)
Spring Semester
Welding I (8672)

12 th Grade
English 12
US Government
Computer Information Systems (6612)
Environmental Science, Astronomy, or Chemistry
Fall Semester
Welding II (8673)
Spring Semester
Welding II (8673)

Dual Enrollment Courses

Courses taught at base school.

- ◆ Technical Drawing & Design (3)
- ◆ Engineering, Drawing, & Design (4)
- ◆ Computer Information Systems (3)

Courses taught at PCTC.

- ◆ WEL 120- Fundamentals of Welding (2)
- ◆ SAF 130- Industrial Safety OSHA 10 (1)
- ◆ WEL 121- Arc Welding (2)
- ◆ WEL 150 Welding Drawing and Interpretation (3)
- ◆ WEL 32- Intro Gas Metal ARC Welding (2)
- ◆ WEL 247- Welding layout and Fabrication (2)
- ◆ WEL 31- Intro Gas Tungsten ARC Welding (2)
- ◆ WEL 122- Welding II (2)
- ◆ WEL 160- Gas Metal ARC Welding (4)
- ◆ WEL 164- Gas Tungsten ARC Welding, Tungsten Inert Gas (3)
- ◆ WEL 126- Pipe Welding I (3)

Industry Certifications

NCCER

- ◆ NCCER Trades Core Introductory Craft Skills
- ◆ NCCER Welding I

Post Secondary Options:

- ◆ Central Virginia Community College
- ◆ Danville Community College
- ◆ Patrick Henry Community College
- ◆ Virginia Technical Institute

Course Description

Welding provides students with instruction in basic welding and other related skills necessary to prepare them for an entry level welding job. Included in this instruction are: welding safety, metallurgy, related math, blue print reading, weld testing, oxygen/fuel cutting and welding, plasma cutting, shielded metal arc welding (SMAW), gas metal arc welding (MIG), gas tungsten arc welding (TIG), and pipe welding. Upon completion of instruction in these skill areas, students develop these skills by working on live work projects in a shop situation. Personal safety equipment is required.

Students have the opportunity to compete in Welding competitions within SkillsUSA.

**Please note, in addition to Technical and Program requirements, students must complete the requirements for graduation at the base school.