Dual Enrollment Opportunities through Penn College of Technology offered at the Susquehanna County Career and Technology Center:

- **Carpentry**
  - BCT103: Construction Hand and Power Tools
    - Survey of hand and power tools typically used to perform construction work. Emphasis on the development of skills needed to effectively perform layout, measurement, cutting, fastening, and finishing operations. Study also includes maintenance of tools and equipment, safe use of hand and power tools, and emerging tool technology.
    - 1 Credit (0 Lecture – 3 Lab) *Sophomore Approved Course

- **Health Care**
  - HTH 100: Introduction to Health Careers
    - Examination of health majors and careers, including an evaluation of personalities in relation to career interests and values needed for success and satisfaction in the health care professions. Topics include discussion of requirements, daily roles, employment opportunities, and projections for the future in each of the selected health care fields.
    - 2 Credits (2 Lecture- 0 Lab). *Sophomore Approved Course
  - MTR104: Basics of Medical Terminology
    - Foundation for the use of the language of medicine, with emphasis on correct pronunciation and spelling, various word parts, abbreviations and symbols, and terms pertaining to body systems. Etiology, symptomatology, pathology, and diagnostic procedures for identifying various disease processes provide an increased understanding of medically related conditions and procedures.
    - 3 Credits (3 Lecture – 0 Lab)

- **Welding**
  - WEL114: Shielded Metal Arc I
    - Introduction to the principles and practices of basic Shielded Metal Arc Welding (SMAW) using various types of mild steel electrodes in the flat position. The fundamentals of AC and DC current and various types of power sources are covered.
    - 2 Credits (1 Lecture – 3 Lab) *Corequisite(s): WEL116
- **WEL116: Shielded Metal Arc II**
  - Hands-on practice with various electrodes and power sources using AC and DC current in all positions.
  - 2 Credits (0 Lecture – 6 Lab) *Corequisite(s): WEL114 *Sophomore Approved Course

- **WEL120: Gas Metal Arc I**
  - Principles and applications of Gas Metal Arc Welding (GMAW), applied to ferrous and non-ferrous metals and their alloys. Hands-on work includes performing single and multi-pass welds using a variety of electrode wire types, diameters, and transfer modes.
  - 2 Credits (1 Lecture – 3 Lab) *Corequisite(s): WEL114

- **WEL123: Gas Tungsten Arc I**
  - Introduction to the Gas Tungsten Arc Welding (GTAW) process. Theory is applied to related equipment, electrical concepts, material properties, arc characteristic, puddle control, and appropriate application of filler materials. Welding of ferrous and non-ferrous metals in all positions is covered. Admittance to course by successful completion of prerequisites or permission of instructor.
  - 2 Credits (1 Lecture – 3 Lab) *Prerequisite(s): WEL113. *Corequisite(s): WEL123

- **WEL124: Gas Metal Arc II**
  - Continued laboratory practice of Gas Metal Arc Welding (GMAW). Activities include fundamental applications on ferrous and non-ferrous metals in all positions using various modes of metal transfer and wire electrodes.
  - 2 Credits (0 Lecture – 6 Lab) *Corequisite(s): WEL114

- **WEL129: Gas Tungsten Arc II**
  - Laboratory activities, with emphasis on the welding of ferrous and non-ferrous metals in various joint configurations. All welding is done using all positions. Joining a dissimilar metals and metal identification are covered. Admittance to this course by successful completion of prerequisites or permission of instructor.
  - 2 Credits (0 Lecture – 6 Lab) *Prequisite(s): WEL113. *Corequisite(s): WEL123