

Career & Technical Course Offerings through the College Express Program

HVAC

The HVAC program is one of the most stable fields for a technician. Students prepare for a future in HVAC with a hands-on program where students learn to install, repair and maintain commercial and domestic refrigeration units, air conditioning and heating systems and related environmental units.

ELEC 150 Electricity for HVAC (Fall 22)

This course will cover electrical safety, reading wiring diagrams, basic electrical circuits, electrical meters, components, symbols and circuitry common to HVAC systems. Alternating current, power distribution, and voltage systems will be discussed.

HVAC 150 Heating Plants (Fall 23)

The course will cover forced air, hot water, steam, reverse cycle, heat pump, gas radiant, electric, hydronic heating plants and indoor air quality. How the above is controlled, installed, maintained and serviced.

HVAC 147 Principles of Air Conditioning (Spring 23)

The student will describe the fundamentals of refrigeration and refrigeration theory which will include various condensers, evaporators, compressors, and related components. The student will become familiar with, and will demonstrate minor installation procedures, refrigerant control, metering of refrigerant for absorbing heat and tool care.

HVAC 200 Advanced Air Conditioning (Spring 24)

The student will analyze and service air conditioning and refrigeration equipment with emphasis on the electrical components used in air conditioning and refrigeration equipment. He or she will be able to describe the operation of electrical components and troubleshoot these component in the system.

Education for Employment 400

VVEDS

Vermilion Vocational Education Delivery System



**Danville Area
Community College**