

# AMT 144 : Heating and Air Conditioning

**Credits:** 4

**Class Hours:** 8 lecture/lab

**Prerequisites:** "C" or higher in AMT 100.

**Description:** This course provides an understanding of the theory, diagnosis, service, safety handling of refrigerant and repair of automotive heating, ventilation, and air conditioning (HVAC) systems. The course presents the operation and function of vacuum, electrical, refrigeration circuits, and computer controls. Training is provided on the use of tools and equipment while performing diagnostics, repairs, and service on HVAC systems.

**Semester Offered:** Spring

**Course Student Learning Outcomes (CSLOs):**

1. Demonstrate an understanding of applicable theories of operation and principles of heating, ventilation and air conditioning (HVAC) systems.
2. Demonstrate the use of reference training materials, use of appropriate tools, testing and measuring equipment to diagnose, test, inspect, and perform needed repair/service on heating, ventilation and air conditioning (HVAC) systems and components.
3. Demonstrate an understanding of personal and environmental safety practices and observe all industry standards of safety.