

# Course Syllabus

## Wayne County Community College District

### HVA 104 Air Conditioning I

**CREDIT HOURS:** 4.00

**CONTACT HOURS:** 75.00

#### **COURSE DESCRIPTION:**

Prereq: HVA 101, HVA 102

Co-req: HVA 105

This course covers load calculation, basic psychometrics, system design, air handling, selection of equipment and controls, installation and servicing of residential and commercial systems.

#### **EXPECTED COMPETENCIES**

Upon successful completion of this course, the student will:

1. Understand the basics of air conditioning for human comfort
2. Identify the fundamentals and properties of various types of compressors, refrigerants, related temperatures and pressure, residential window units and central split air conditioning systems
3. Identify and demonstrate systems components, wiring diagrams, service and troubleshooting of residential air conditioning units

#### **ASSESSMENT METHODS**

Student performance may be assessed by examination, quizzes, case studies, oral reports, group discussion, written reports or presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

#### **GRADING SCALE**

90%-100% = A

80%-89.9%= B

70%-79.9%= C

60%-69.9%= D

<60% = E