

# Course Syllabus

## Wayne County Community College District

### HVA 110 Forced Air & Hydronic Heating

**CREDIT HOURS:** 4.00

**CONTACT HOURS:** 75.00

#### **COURSE DESCRIPTION:**

Prereq: HVA 106, HVA 107

This course covers application, installation and service of steam and hydronic heating systems, including equipment selection, layout, construction, testing, adjusting and troubleshooting. Piping systems are also studied.

#### **EXPECTED COMPETENCIES**

Upon successful completion of this course, the student will:

1. Understand the fundamentals of forced air heating, burner controls and components, safety controls, and steam water levels in hydronic heating applications
2. Identify local heating codes on forced air and hydronic heating systems including piping arrangements, aquastats, pressure controls, and troubleshooting and installation practices

#### **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