

# AHR 112: HEATING TECHNOLOGY

AHR-112 Section 141

Fall 2017

**Instructor:**

**Email:**

**Class Time:** Monday/Wednesday: 6:00pm-8:45pm

**Office Location:**

**Office Hours:**

## COURSE DESCRIPTION

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system.

## REQUIRED COURSE MATERIALS

**Textbook –**

Whitman, Johnson, Tomczyk, and Silberstien

Refrigeration and Air Conditioning Technology, 8th Edition

**Supplies –**

No Supplies Required

**Technology –**

Computer with Internet access

## STUDENT LEARNING OUTCOMES

- A. Demonstrate safe practices and procedures with tools, materials, and industry accepted test equipment covered in the course.
- B. Use industry terminology to describe principles for oil, gas, and electric warm air heating systems.
- C. Identify the major components of oil, gas, and electric heating systems.
- D. Install and start-up warm air heating systems.
- E. Identify various types of energy sources used in heating and describe the individual characteristics of each.

- F. Describe service procedures for heating systems.
- G. Use tools and instruments necessary to troubleshoot and test system efficiency.

## EVALUATION / GRADING

Your final grade will be determined as follows:

Tests	20%
Assignments/Labs	30%
Final Exam	20%
Attendance/Participation	30%

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## GRADING SCALE

This course uses the following grading scale:

<b>A =</b>	90-100
<b>B =</b>	80-90
<b>C =</b>	70-80
<b>D =</b>	60-70
<b>F =</b>	Below 60
<b>I =</b>	Incomplete

## ATTENDANCE POLICY

[The Cleveland Community College Attendance Policy](#)

## CODE OF CONDUCT POLICY

[Student Responsibilities \(Student Code of Conduct\)](#)

## ACADEMIC AND PHYSICAL ACCOMMODATIONS

**Access and Accommodations:** Your experience in this class is important to your instructor, and it is the policy and practice of Cleveland Community College to create

inclusive and accessible learning environments consistent with federal and state law. If you experience barriers based on a temporary health condition or disability (which could include but is not limited to mental health, attention-related, learning, vision, hearing, physical or health impacts) and as a result cannot participate fully in this class, complete course requirements, or benefit from the College's programs or services, contact Disability Services as soon as possible.

To receive any academic accommodation, you must be appropriately registered with Disability Services at CCC. This office works with students confidentially and does not disclose any disability-related information without the student's permission. You are welcome to contact them at 704-669-4096 or [disabilityservices@clevelandcc.edu](mailto:disabilityservices@clevelandcc.edu). If you have already established accommodations with Disability Services for this semester your instructor has been notified. You will want to discuss your approved accommodations with your instructor at your earliest convenience to make sure your needs in this course are met.

If you have a condition which may affect your ability to exit the premises in an emergency or which may cause an emergency during class, you are encouraged to discuss this in confidence with the instructor and/or Disability Services.

## ACADEMIC INTEGRITY POLICY

[CCC Academic Integrity Policy](#)

## CALENDAR / IMPORTANT DATES

[Calendar and Important Dates](#) for this term.

## COURSE SCHEDULE

Add any important dates for this class. For hybrid courses, the days the class meets on campus must be listed. All field trip dates must be listed. Include other dates as you see fit. If pasting text, right-click and choose "Keep text only".

## ADDENDUM

Any information the individual faculty member deems appropriate for the course. If pasting text, right-click and choose "Keep text only".