

AHR-110: Intro to Refrigeration
AHR-110 Section 141
Fall 2017

Instructor:

Email:

Class Time: Monday/Wednesday: 6:00pm-9:45pm

Office Location:

Office Hours:

COURSE DESCRIPTION

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade.

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. Identify and explain the theory, operating principle, and components of the refrigeration cycle.
- C. Identify tools, materials, and equipment used in the refrigeration industry.
- D. Evacuate, charge, recover, and safely operate a basic refrigeration /cooling system in accordance with EPA regulations.
- E. Demonstrate refrigeration piping and soldering techniques.

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:

A =	90-100
B =	80-90
C =	70-80
D =	60-70
F =	Below 60
I =	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. 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".