

**Master Syllabus**

**Course: HACR 2520 - RESIDENTIALCENTRAL AIR CONDITIONING II**

## CRN:

**CREDIT HOURS (Lecture/Lab/Total):** 1/1/2

**CONTACT HOURS (Lecture/Lab/Total):** 15/60/75

**INSTRUCTOR INFORMATION**

**Name:**

**Email:**

**Phone:**

**Office:**

## Office Hours:

**Class Location:**

## COURSE DESCRIPTION:

This course presents the operation, diagnosis and service of central air conditioning systems and the care of associated instruments. Topics include the various types of A/C systems, and safety principles.

**PREREQUISITES:** Completion of core studies | **CO-REQUISITES:** HACR 2510

## LEARNING OUTCOMES:

1. Install a central air conditioning system.
2. Recover, leak test, evacuate, and charge a central air conditioning system.
3. Check and adjust superheat.
4. Check and adjust sub-cooling.
5. Check and adjust static pressure drop across an evaporator coil.
6. Check a compressor for mechanical and electrical problems.
7. Evaluate the overall performance of a central air conditioner.
8. Diagnose problems and repair/replace major system problems.

## ASSEMSSMENT MEASURES:

## Assessment of all learning outcomes will be measured using the following methods:

1. Class work (book/Hand-outs)
2. Hands-on Tasks
3. Written Tests
4. Attendance

## REQUIRED TEXTBOOK:

enrollment in fall college wide could reach 30 new students Modern Refrigeration and Air Conditioning 20th Edition

By: Andrew D. Althouse, Carl H. Turnquist, A.F. Bracciano, D.C. Bracciano, and G.M. Bracciano

ISBN: 978-1-63126-357-6

**ATTENDANCE POLICY:** It is the student’s responsibility to maintain regular contact with instructors. Class attendance is the responsibility of the student. All students must be officially enrolled in any course that they attend. It is expected that students attend all classes and be on time. If an absence occurs, it is the responsibility of the student for making up examinations, obtaining lecture notes, and otherwise compensating for what may have been missed. Students who stop attending class and do not officially drop, withdraw, or resign from the college may receive a grade of “F” for all coursework missed. Absences affect performance in this course and do not reflect well on participation. No student may substitute the attendance of another student. **Online students must be actively participating in online courses to be considered making progress.** **Hybrid students must attend face-to-face meetings as well as complete online assignments.**

Students should frequently check Canvas (Learning Management System) for notifications and updates to the course. Students are expected to use the online resources provided by NTCC to:

1. Track course assignments and progress

2. Discuss topics and issues with fellow students

3. Turn in assignments, quizzes, and tests

4. Check for any updates, changes or alterations to the course

5. Access all course materials to include presentations, assignments, quizzes, and tests.

**GRADING REQUIREMENTS:**

40% Hands-on

30% Written testing

20% Assignments

10% Attendance

**GRADING SCALE:**

90 % to 100% = A

80 % to 89 % = B

70 % to 79 % = C

60 % to 69 % = D

59 % - Below = F

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**ACADEMIC INTEGRITY AND CONDUCT:** Students are expected to maintain the highest standards of academic integrity. Behavior that violates these standards is not acceptable. Plagiarism, cheating, and other forms of academic dishonesty are prohibited and are subject to disciplinary actions established in the Student Code of Conduct. The instructor reserves the right to assign a grade of “F” on any type of assignment or examination based on evidence that the student has violated the Student Code of Conduct.

**STUDENT BEHAVIOR/CLASSROOM DECORUM:** Students are encouraged to discuss, inquire, and express their thoughts and views during class. Classroom behavior that interferes with either the instructor’s ability to conduct the class or the ability of students to benefit from the instruction is not acceptable. Students are required to turn off all cell phones or similar electronic devices (or place them on silent mode) before coming into the classroom. The instructor reserves the right to assign no credit for work on that day if a student talks or texts on a cell phone or similar electronic device. The classroom is not a place for children, and students are not to bring their family members into the classroom.

**DISABILITY CODE:** If you are a qualified student with a disability seeking accommodations under the Americans with Disabilities Act, you are required to self-identify with the Student Affairs. No accommodations are granted without documentation authorized from Student Affairs.

**WITHDRAWAL POLICY:** The last day to withdraw from a course or resign from the college is **\_\_\_\_\_\_\_\_\_\_\_\_\_**. If you intend to withdraw from the course or resign from the college, you must initiate the action by logging into LoLA. The instructor will not withdraw you automatically.

**COMMUNICATION POLICY:** My.NorthshoreCollege.Edu is the official student email communication within Northshore Technical Community College. Therefore, the College has the right to send communications to students via their College email address and the right to expect that those communications will be received and read in a timely fashion. Every student is assigned a My.NorthshoreCollege.Edu. Students can redirect their College email address to an outside email provider. However, the College is not responsible for handling outside email providers, and redirecting their College email address does not absolve a student from their responsibilities associated with communication sent to their official College email address.

**COPYRIGHT POLICY:** Unless a student has obtained permission from the copyright holder, it is a violation of Copyright Law to print or photocopy chapters from a textbook that the student did not purchase. If the course requires the use of an electronic textbook, a student must look for a statement that allows for photocopying and/or printing of the eTextbook.

**NETIQUETTE POLICY:** This term is used to describe accepted, proper behavior on the Internet. Remember the following when communicating online (messages, discussion board, etc.):

* Never post profanity, racist, or sexist messages
* Be respectful of fellow students and instructors
* Never insult any person or their message content
* Never plagiarize or publish intellectual property
* Do not use text messaging abbreviations or slang
* Do not type in all CAPS (this is considered online yelling)

**PROGRAM DRESS CODE:** Your appearance in the program must model industry expectations on a daily basis. The entire dress code expectations will be covered during safety training. The following items are minimum requirements for the course:

1. No jewelry
2. No loose fitting clothing
3. Long pants ( no shorts or jogging pant)
4. Closed toed shoes
5. Safety glasses