

Course Information **A/C & R 27**

Course Description: This course covers the principles of gas, electric, radiant and hydronic operated heating systems. Classroom discussions focus on maintenance, repair and service techniques for furnaces, steam and hot water boilers. Lab exercises emphasize the use of test instruments and safety controls.

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Course Statement: After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories to an operating High Efficiency Gas Furnace. Students will take gas pressure readings with a manometer and record the readings with the appropriate lab assignment and compare the reading with manufacturer's specifications.

Text: Refrigeration and Air Conditioning Technology
By Whitman and Johnson 5th OR 6th or 7th Edition

Lecture: 8:00-11:20 MW
Lab: 11:30-2:30 MW

Materials: Pen, Pencil, Paper
Office Hours: 7:00-8:00 MW

Grading: Attendance 25%
 Lab Assignments 25%
 Test & Quizzes 25%
 Final Exam 25%

A 100 –90
B 89 – 80
C 79 – 70
D 69 – 60
F 59 – 00

Note: If you choose to drop out of class, it will be your responsibility or you will be given an " F " grade at the end of the semester.

Attendance: As in the working world of employment, attendance is a requirement for this class.

A/C 27
Heating Technologies
Course Outline

Introduction and Orientation

Safety Test

	Page
Unit 31 Gas Heat	816
Unit 43 Air Source Heat Pumps	1245
Unit 34 Indoor Air Quality	995
Unit 33 Hydronic Heat	940

Note: Chapter Test will be given at the end of each Chapter.
Quizzes will also be given, but there will be no retakes if missed.
Questions at the end of each chapter must be answered
Notes may be used when taking test or quizzes.