



COURSE SYLLABUS

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COURSE: **AHR 213** **HVACR BUILDING CODE**

HOURS: Lecture: 1 Lab/Shop: 2 Work Exp/Clinical: 0 Credits: 2

COURSE DESCRIPTION:

This course covers the North Carolina codes that are applicable to the design and installation of HVACR systems. Topics include current North Carolina codes as applied to HVACR design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of North Carolina codes that apply to specific areas of the HVACR trade.

PREREQUISITE(S): None

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

North Carolina State Building Code: Mechanical Code 2018. Washington, DC: International Code Council, 2018.
ISBN: 9781609837433

North Carolina State Building Code: Fuel Gas Code 2018. Washington, DC: International Code Council, 2018.
ISBN: 9781609837419

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Define terms as they apply to the mechanical and fuel gas building code.
2. Discuss general regulations applicable to appliance installation.
3. Identify building ventilation requirements.
4. Discuss codes relating to the exhaust of hazardous gases.
5. Identify code regulations for the materials and methods used in duct construction and installation.
6. Determine the combustion air requirements for fuel burning appliances.
7. Identify codes regulating the design and construction of chimneys and vents.
8. Discuss code requirements for fuel gas piping installations.
9. Discuss a catastrophic event in a less developed country which could have been avoided if more stringent code requirements would have been in place and enforced.

*****Please refer to the online version of the Richmond Community College Program & Course Catalog and the Student Handbook for current academic and general information.**