

# ACRC AIR CONDITIONING LECTURE/LAB

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**ACRC 0000 Introduction to HVAC/R****Clock Hours:** 0**Prerequisites:** Acceptance into the HVAC limited access program**Lab Fee:** Yes

This is a theoretical and practical course outlining the introduction to the HVAC/R industry and how environmental conditions are related to heating and air conditioning technology. It introduces the student to the proper use and care of hand and power tools and safety practices. Students will also gain knowledge in useful construction math skills to accurately analyze and apply data and measurements to solve problems and in reading and interpreting various types of construction drawings and written specifications.

**ACRC 0001 HVAC/R Fundamentals****Clock Hours:** 0**Prerequisites:** ACRC 0000 with a grade of "C" or higher**Lab Fee:** Yes

This course focuses on practical knowledge of basic electricity and electrical components in HVAC/R. Topics include troubleshooting and testing electrical control systems, generation components, and motors.

**ACRC 0012 HVAC/R Service Practices****Clock Hours:** 0**Prerequisites:** ACRC 0001 with grade of "C" or higher**Lab Fee:** Yes

This course focuses on the skills needed to handle mechanical components, solid-state electronics in HVAC/R, interpreting construction documents, and installation and troubleshooting of HVAC/R systems in industry.

**ACRC 0013 HVAC/R Intermediate Service Practices****Clock Hours:** 0**Prerequisites:** ACRC 0012 with grade of "C" or higher**Lab Fee:** Yes

This course focuses on commercial HVAC/R systems, including components, maintenance, troubleshooting, and repair of commercial HVAC/R systems.

**ACRC 0044 HVAC/R Advanced Service Practices****Clock Hours:** 0**Prerequisites:** ACRC 0013 with "C" or higher**Lab Fee:** Yes

This course explores advanced HVAC/R concepts with a focus on the operation and maintenance of a variety of systems in different settings.