

Crandall ISD offers courses in the Architecture and Construction career cluster to prepare students for a career in HVAC. We have designed a program of study that will allow you to complete three or four years of coursework preparing you for a great career,

**Business & Industry Endorsement– Architecture & Construction/Plumbing**

*Principles of Agriculture, Food & Natural Resources*

*Heating, Ventilation, & Air Conditioning & Refrigeration Technology I*

*Heating, Ventilation, & Air Conditioning & Refrigeration Technology II*



Crandall High School  
P. O. Box 520  
13385 FM 3039  
Crandall, TX 75114  
972.427.6150

[www.crandall-isd.net](http://www.crandall-isd.net)

Equal access to Career & Technical programs and activities is assured students in the Crandall Independent School District without regard to race, color, national origin, gender, or disability.



**CRANDALL HIGH SCHOOL**

# **Architecture & Construction**

## **HVAC**



# WHAT COURSE SHOULD I TAKE?

Interested in a career in a high wage, high skill job area? Plumbing might be the endorsement path for you. Discuss your career goals with your counselor or Career Exploration teacher.

## **Principles of Agriculture, Food, and Natural Resources**

1 Credit Grades 9 or first year AG

**Prerequisites:** None

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings. The course

examines Leadership Principles, Recordkeeping, SAEP's, Contest, Woodworking, Breeds of Livestock, and Oxy-acetylene metal cutting, and procedures.

## **HVAC I**

1 Credit Grades 10-12

**Prerequisites:** Principles of Agriculture, Food, and Natural Resources

In Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I, students will gain knowledge and skills needed to enter the industry as technicians in the HVAC and refrigeration industry or building maintenance industry, prepare for a postsecondary degree in a specified field of construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, principles of HVAC theory, use of tools, codes, and installation of HVAC and refrigeration equipment.

## **Heating, Ventilation, & Air Conditioning Refrigeration Technology II**

2 Credits

Grade 12

**Prerequisite:** Heating, Ventilation, & Air Conditioning and Refrigeration Technology I

In Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II, students will gain advanced knowledge and skills needed to enter the industry as HVAC and refrigeration technicians or building maintenance technicians or supervisors, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, use of tools, codes, installation of commercial HVAC equipment, heat pumps, troubleshooting techniques, various duct systems, and maintenance practices.