

Crandall ISD offers courses in the Architecture and Construction career cluster to prepare students for a career in plumbing. 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

Plumbing Technology I

Plumbing Technology II



Crandall High School
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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

PLUMBING**



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.

Plumbing Technology I

1 Credit Grades 10-12

Prerequisites: Principles of Agriculture, Food, and Natural Resources

In Plumbing Technology I, students will gain knowledge and skills needed to enter the industry as a plumbing apprentice, building maintenance technician, or supervisor or prepare for a post-secondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in industry workplace basics and employer/customer expectations, including how to use a plumbing code book; how to identify and use power and hand tools; how to be safe on the jobsite and when using hand and power tools; how to apply basic plumbing mathematics and plumbing drawing; and how to identify, fit, and use plastic, copper, cast iron, carbon steel, and corrugated stainless steel pipe. In addition, students will be introduced to gas, drainage, and water supply systems and continue their knowledge of workplace basics and green technologies.

Plumbing Technology II

2 Credits Grades 11-12

Prerequisites: Plumbing Technology I

In Plumbing Technology II, students will gain the advanced knowledge and skills needed to enter the industry as a plumber, building maintenance technician, or supervisor or prepare for a postsecondary degree in mechanical engineering. Students will acquire knowledge and skills in plumbing codes, industry workplace basics, and employer/customer expectations, including tool and jobsite safety, advanced plumbing mathematics, commercial drawings, basic electricity, hanger installation, supports and structural penetrations, roof drains, fixture installation, valves and faucets, and oxy-fuel safety. Students will also learn about setup, cutting, brazing and welding water system sizing; gas, drain, waste and vent installation and testing; and water heater installation.



Student Organization:
FFA