

Agricultural Engineering



This program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power machinery, electrification, structure, soil and water conservation, and processing agricultural products.

At the end of this course, students will open up to a wide variety of jobs in the agricultural industry. The average Agricultural engineer makes about \$70,000 a year with a 4% growth in this field.

Agricultural Engineering courses offered in AHS:

- Principles of Agriculture, Food, & Natural Resources
- Agricultural Mechanics & Metal Tech.
- Agricultural Structure, Design & Fabrication
- Animal Science
- Advanced Animal Science- Science Credit

Career and Technical Education Public Notification of Nondiscrimination

Alpine ISD offers Career and Technical Education programs in Applied Agricultural Engineering, Design and Multimedia Arts, Welding, and Engineering. Admission to these programs is based on career interests, amplitude and schedule availability.

It is the policy of Alpine ISD not to discriminate on the basis of race, color, national origin, sex, handicap or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and section 504 of the Rehabilitation Act of 1973, an amended.

Alpine ISD will take steps to assure that the lack of English language will not be a barrier to the admission and participation in all educational and vocational programs.

For more information about your right or grievances producers, contact the Title IX Coordinator, **Caroline Fox at 432-837-7700, cfox@alpineisd.net** and/or the Section 504 Coordinator, **Verl O'Bryant at vobryant@alpineisd.net, 432-837-7710**

Texas Career and Technical Education



Alpine High School
300 E Hendryx Ave,
Alpine Texas, 79830

Phone: (432)-837-7710

Fax: (432)-837-9813

Welding



The Welding Program of Study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines and how to use hand-welding or flame-cutting equipment.

At the end of this course, student will receive their official AWS Certified Welder certificate and will be able to pursue a career in welding once they graduate. Welders, Cutters, Solderers, and Brazers win an average median wage of 41,350 and annually have 6,171 job openings. This field experiences a growth of 9% as the years go by.

Welding courses offered in AHS:

- Intro to Welding
- Welding I
- Welding II
- Practicum In Manufacturing

Engineering



The Engineering Program of Study focuses on the design, development and use of engines, machines, and structures. CTE learners will learn how to apply sciences, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems

Finishing within this endorsement will open you up to a wide variety of careers in the engineering field such as robotic, industrial, computer, and many more. The average engineer makes around \$90,000 a year with a 15% growth in this field.

Engineering courses offered in AHS:

- Principles of Applied Engineering
- Engineering design & Presentation I
- Engineering Design & Problem Solving
- Manufacturing Engineering Technology I

Design & Multimedia Arts



The Design and Multimedia Arts course covers both Graphic Design and Photography. The Graphic Design portion covers the designing and creating of graphics such as packages, displays and logos which will be incorporated into the yearbook. The Photography portion covers learning how to take photos and process photos using Adobe applications. Whether the students choose the Graphic Design or Photography portion both classes will work in tandem to create the Alpine yearbook.

At the end of this course students will be certified in the main Adobe Cloud application such as Illustrator, Photoshop, and InDesign and will be able to pursue careers in Photography and/or Graphic Design. The average graphic designer or photographer make around \$50,000 with a 17% growth in the field each year.

Design & Multimedia Art courses offered in AHS:

- Principles of Arts, AV Technology, AV Technology, & Communications
- Graphic Design I
- Graphic Design II
- Photography I
- Photography II
- Practicum of Visual Arts