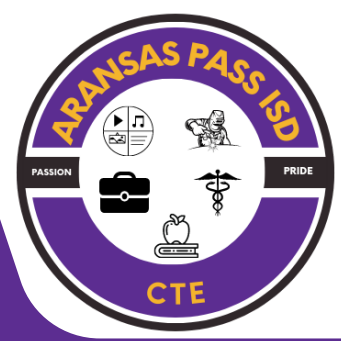
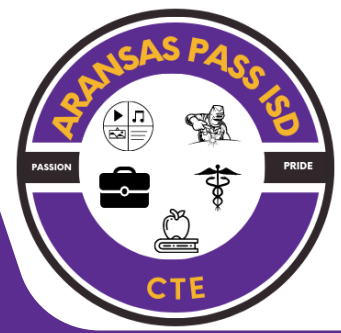


# Aransas Pass ISD CTE Instructional & Guidelines Manual 2024-2025

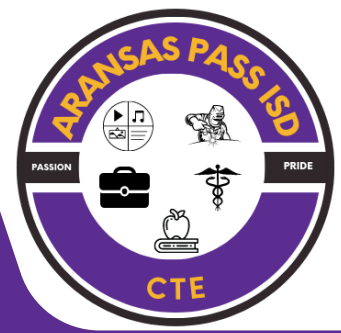


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# Career & Technical Education Programs & Electives



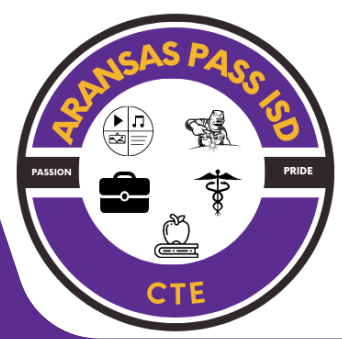
Career and Technical Education (CTE) programs offer a sequence of courses that provide students with coherent and rigorous content. CTE content is aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions.

## **What is a Program of Study?**

Programs of study are courses sequences that prepare students with the knowledge and skills necessary for success in their chosen career. These sequences embed relevant, real world experiences and culminate in a postsecondary credential.



# What is CTE?



Career and Technical Education prepares secondary, postsecondary and adult students with technical, academic and employability skills for success in the workplace and in further education.

## Why CTE?

A career and technology based education will help your child to be more than just an average student. Career and technology education can give your child what's needed to succeed for life: technical skills, academic skills and employability skills. In addition, career and technical education helps students see how what they're learning applies to the needs of employers.

## What is a Program of Study?

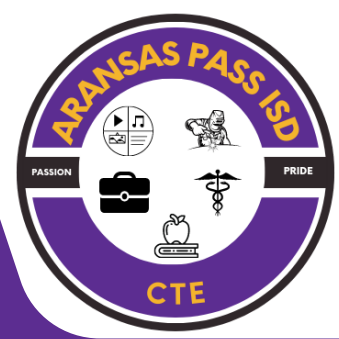
Perkins V describes a program of study as a coordinated, nonduplicative sequence of academic and technical content at the secondary and postsecondary level that:

- Incorporates challenging state academic standards
- Addresses academic, technical, and employability skills
- Aligns with the needs of industries in the state, regional, and/or local economy
- Progresses in specificity, beginning with all aspects of industry and leading to more occupation specific instruction
- Has multiple entry and exit points that incorporate credentialing
- Culminates in the attainment of a recognized postsecondary credential

## Aransas Pass ISD offers 5 Programs of Study

- Business Management
- Graphic Design & Interactive Media
- Health Science - Diagnostic & Therapeutic Services
- Teaching and Training
- Welding

# Pathways in Technology Early College High School (P-TECH)



Pathways in Technology Early College High School (P-TECH) are innovative open-enrollment high schools that allow students least likely to attend college an opportunity to receive both a high school diploma and a credential and/or an associate degree. The hallmark of the P-TECH model is its career focus and the provision of work-based education. P-TECH programs:

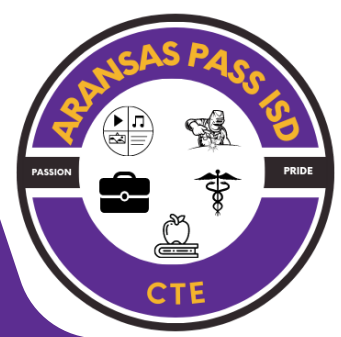
- Enroll historically under served students, targeting at-risk and economically disadvantaged.
- Provide students grade 9 through 12 the opportunity to complete a course of study that combines high school and post-secondary courses.
- Enable students to earn a high school diploma, along with an associate degree, Level 1 or Level 2 certificate, or industry-based certification within six years.
- Offer age-appropriate work-based learning opportunity in every grade level.
- Allow students to gain work experience through an internship, apprenticeship, or other job training program.
- Align to regional workforce needs, guiding students into high-demand, high-wage careers.
- Partner with Texas Institutions of Higher Education (IHEs) and regional businesses and industries giving students access to post-secondary education and workforce training opportunities.

Aransas Pass High School provides a P-TECH program in the area of health science, Aransas Pass ISD Health Science Academy. Students in the third and fourth year of the healthcare pathway will begin earning certification in the following areas: Phlebotomy Technician, EKG Technician, Certified Patient Care Technician, Medical Care Technician, and Medical Assistant. Students will be encouraged to complete dual credit coursework leading to an Associate of Arts degree along with graduating high school with several healthcare certifications. Students will have first-hand exposure to the healthcare industry.

The overall employment in healthcare occupations is projected to grow over thirteen percent from 2021 to 2031, much faster than the average for all occupations; this increase is expected to result in about 2 million new jobs over the decade. In addition to new jobs from growth, opportunities arise from the need to replace workers who leave their occupations permanently. About 1.9 million opening each year, on average, are projected to come from growth and replacement needs.

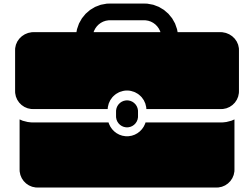
Aransas Pass ISD is in partnership with Del Mar College to provide Dual Credit courses to students within and outside the P-TECH program.

# CTE Certifications



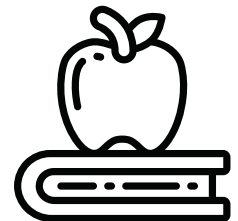
## Business Management

- Microsoft Office Specialist - Excel; Microsoft Office Expert -Excel Microsoft
- Office Specialist - Word; Microsoft Office Expert - Word



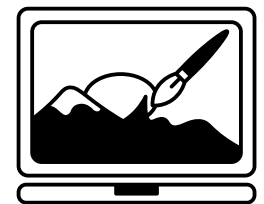
## Teaching & Training

- Educational Aide I



## Graphic Design and Interactive Media

- Adobe Certified Professional Certifications



## Health Science - Diagnostics and Therapeutic Services

- Phlebotomy Technician
- Certified EKG Technician
- Patient Care Technician
- Medical Assistant

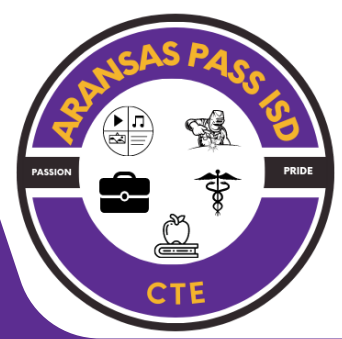


## Welding

- AWS D9.1 Sheet Metal Welding
- AWS D1.1 Structural Steel



# Business Management Program of Study



**The Business Management program of study focuses on occupational and educational opportunities associated with planning, directing, and coordinating the administrative services and operations of an organization. It includes formulating policies, managing daily operations, and allocating the use of materials and human resources. This program of study also introduces students to mathematical modeling tools and organizational evaluation methods.**

## Business Management Course Sequence:

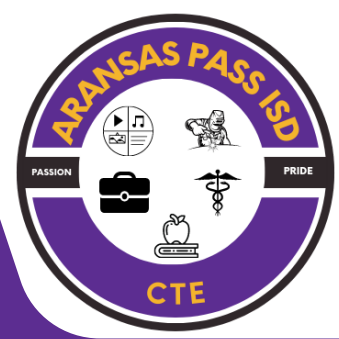
**Year 1 - Business Information Management I**

**Year 2 - Business Information Management II**

**Year 3 - Global Business/Human Resource Management**

**Year 4 - Practicum in Business Management or Career  
Preparation for program of study.**

# Business Management Courses



## **Business Information Management I**

Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

PEIMS Code: 13011400 (BUSIM1)

Grade Placement: 9–12

Credits: 1

Prerequisite: None.

Level 1 Course

## **Business Information Management II**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

PEIMS Code: 13011500 (BUSIM2)

Grade Placement: 10–12

Credits: 1

Prerequisite: Business Information Management I.

Level 2 Course

## **Global Business**

Offered in the fall semester. Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.

PEIMS Code: 13011800 (GLOBBUS)

Grade Placement: 11-12

Credits: 0.5

Prerequisite: Business Information Management I and Business Information Management II

Level 3 Course

## **Human Resource Management**

Offered in the spring semester. Human Resource Management is designed to familiarize students with the concepts related to human resource management, including legal requirements, recruitment, and employee selection methods, and employee development and evaluation. Students will also become familiar with compensation and benefits programs as well as workplace safety, employee management relations, and the impact of global events on human resource management.

PEIMS Code: 13011900 (HRMGT)

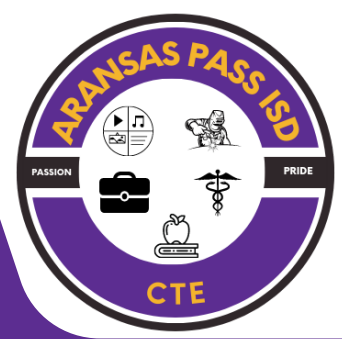
Grade Placement: 10-12

Credits: 0.5

Prerequisite: Business Information Management I and Business Information Management II

Level 3 Course

# Business Management Courses



## **Practicum in Business Management**

The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and in a variety of instructional setting.

PEIMS Code: 13012200 (PRACBM) 13012210 PRACBM2-Second time taken

Grade placement: 11-12

Credit: 2.0

Prerequisite: Business Information Management II

Level 4 Course

## **Career Preparation for Programs of Study**

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stake holders.

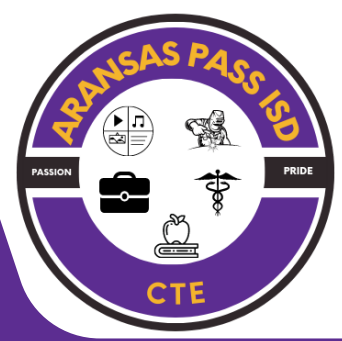
PEIMS Code: 12701121 (CAREERP1)

Grade placement: 11-12

Credit: 2

Prerequisite: At least on level 2 or high career and Technical Education (CTE) programs of study.

# Teaching and Training Program of Study



The Teaching and Training program of study focuses on occupational and educational opportunities associated with careers related to teaching, instructing, and creating instructional and enrichment materials. The program of study includes recognizing a variety of student groups and their corresponding needs, identifying processes for developing curriculum and coordinating educational content, and coaching groups and individuals.

## Teaching and Training Courses Sequence

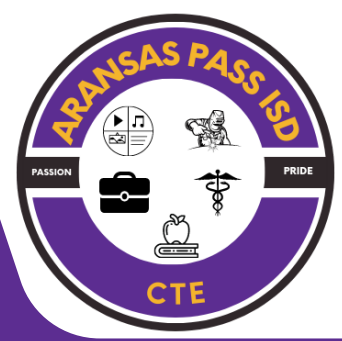
Year 1 - Principles of Education and Training

Year 2 - Child Development

Year 3 - Instructional Practices

Year 4 - Practicum in Education and Training

# Teaching and Training Courses



## **Principles of Education and Training**

This course is designed to introduce learners to the various careers available within the education and training careers cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster.

PEIMS Code: 13014200 (PRINEDTR)

Grade Placement: 9–10

Credit: 1

Prerequisite: None

Level 1 Course

## **Child Development**

Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

PEIMS Code: 13024700 (CHILDDEV)

Grade Placement: 10–12

Credit: 1

Prerequisite: None.

Recommended Prerequisite: Principles of Education and Training

Level 2 Course

## **Instructional Practices**

This course is a field-based internship that provides knowledge of child and adolescent development, as well as principles of effective teaching. Students will plan and direct instruction and activities, completing many responsibilities of educational personnel.

PEIMS Code: 13014400 (INPRAC)

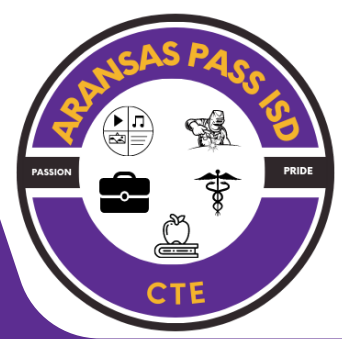
Grade Placement: 11-12

Credit: 2

Prerequisite: Principles of Education & Training or Principles of Human Services, and Child Development or Human Growth & Development

Level 3 Course

# Teaching and Training Courses



## **Practicum in Education and Training**

This is a field-based internship that provides knowledge of child and adolescent development principles as well as principles of effective teaching. Students work under the direction and supervision of a teacher with knowledge of exemplary educators in direct instructional roles.

PEIMS Code: 13014500 (PRACEDT1)

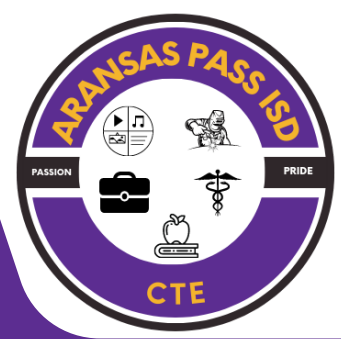
Grade Placement: 12

Credit: 2

Prerequisite: Instructional Practices, Principles of Education and Training, Human Growth & Development, and/or Child Development

Level 4 Course

# Graphic Design and Interactive Media Program of Study



The Graphic Design and Interactive Media program of study focuses on occupational and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. The program of study includes designing clothing and accessories and creating special effects, animations, or other visual images using film, video, computers, or other electronic tools and media for use in computer games, movies, music videos, and commercials.

## Graphic Design and Interactive Media Course Sequence -

**Year 1 - Principles of Arts, Audio/Video Technology, and  
Communications**

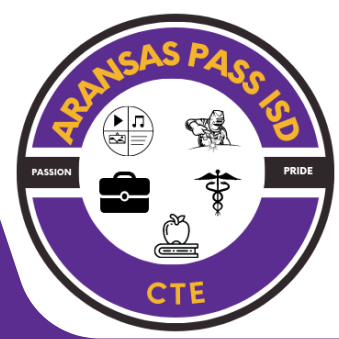
**Year 2 - Graphic Design and Illustration I**

**Graphic Design and Illustration I/Graphic Design Lab**

**Year 3 - Graphic Design and Illustration II/Graphic Design II  
Lab**

**Year 4 - Practicum in Graphic Design and Illustration**

# Graphic Design & Multimedia Arts Courses



## **Principles of Arts, Audio/Video Technology, and Communications**

The goal of this course is that the student understands arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

PEIMS Code: 13008200 (PRINAAVTC)

Grade Placement: 9-10

Credits: 1

Prerequisite: None

Level 1 Course

## **Graphic Design and Illustration I (GRAPHDI1)/Graphic Design and Illustration I with lab (GRDLAB1)**

Careers in graphic design and illustration span all aspects of the advertising and visual communication industries. Students will learn about a career in the many kinds of media and graphic design and illustration jobs including photographer, videographer, animator, and advertiser. Students will cover digital photography, image editing and drawing programs.

PEIMS Code: 13008800/13008810

Grade Placement: 10-12

Credits: 1/with lab 2.0

Prerequisite: None

Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications

Level 2 Course

## **Graphic Design and Illustration II/Graphic Design and Illustration II Lab (GRAPHDI2)**

Illustration spans all aspects of the advertising and visual communications industries. Students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.

PEIMS Code: 13008910 (GRDLAB2)

Grade Placement: 11-12

Credits: 2

Prerequisite: Graphic Design and Illustration I

Level 3 Course

## **Practicum in Graphic Design and Illustration (PRACGRD1)**

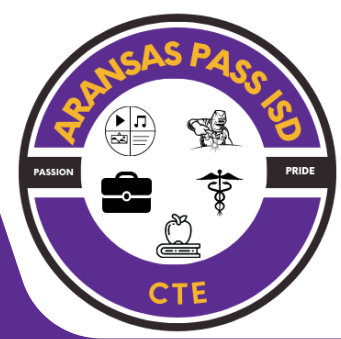
Students develop technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency.

PEIMS Code: 13009000

Grade Placement: 12

Credits: 2

Prerequisite: Graphic Design and Illustration II/lab



# Health Science - Diagnostic and Therapeutic Services Program of Study

The Diagnostic and Therapeutic Services program of study focuses on occupational and educational opportunities associated with diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

## Health Science - Diagnostic and Therapeutic Services Course Sequence

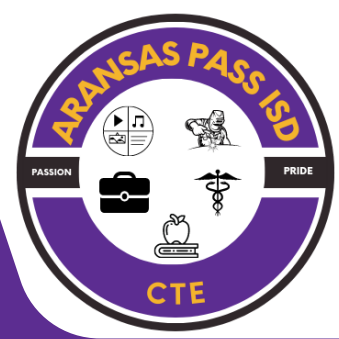
**Year 1: Principles of Health Science**

**Year 2: Medical Terminology**

**Year 3: Health Science Theory/Health Science Clinical  
Anatomy and Physiology**

**Year 4: Practicum in Health Science**

# Health Science - Diagnostic and Therapeutic Services Courses



## **Principles of Health Science**

This course is an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry. This course satisfies the requirements for Health.

PEIMS Code: 13020200 (PRINHLSC)

Grade Placement: 9–10

Credit: 1

Level 1 Course

## **Medical Terminology**

This course is designed to introduce students to the structure of medical terms, including prefixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. Students study comprehension of medical vocabulary appropriate to medical procedures.

PEIMS Code: 13020300 (MEDTERM)

Grade Placement: 9–12

Credit: 1

Prerequisite: None

Level 2 Course

## **Health Science Theory/Health Science Clinical**

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development.

PEIMS Code: 13020410 (HLSCLIN)

Grade Placement: 10–12

Credit: 2

Prerequisites: Biology and at least one credit in a course from the Health Science career cluster

Level 3 Course

## **Anatomy and Physiology**

Students study the structures, functions, and interactions of human body systems through the integration of biology, chemistry, and physics. Dissection is part of the course.

PEIMS Code: 13020600 (ANATPHYS)

Grade Placement: 11 - 12

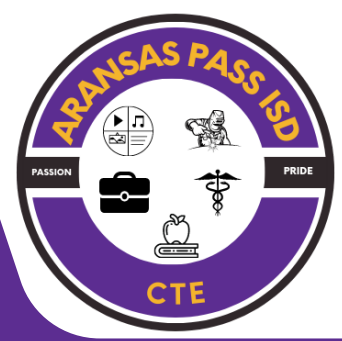
Credit: 1

Prerequisites: Biology and one credit in Chemistry, Integrated Physics and Chemistry, or Physics.

Recommended co-requisite: A course from the Health Science career cluster

Level 3 Course

# Health Science Diagnostics and Therapeutic Services Courses



## **Practicum in Health Science**

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Liability insurance through district provider required. A review process may apply due to space, criminal background check, drug screening, TB screening required. Students must be at least 16 years old.

PEIMS Code: 13020500 (First Time Taken)

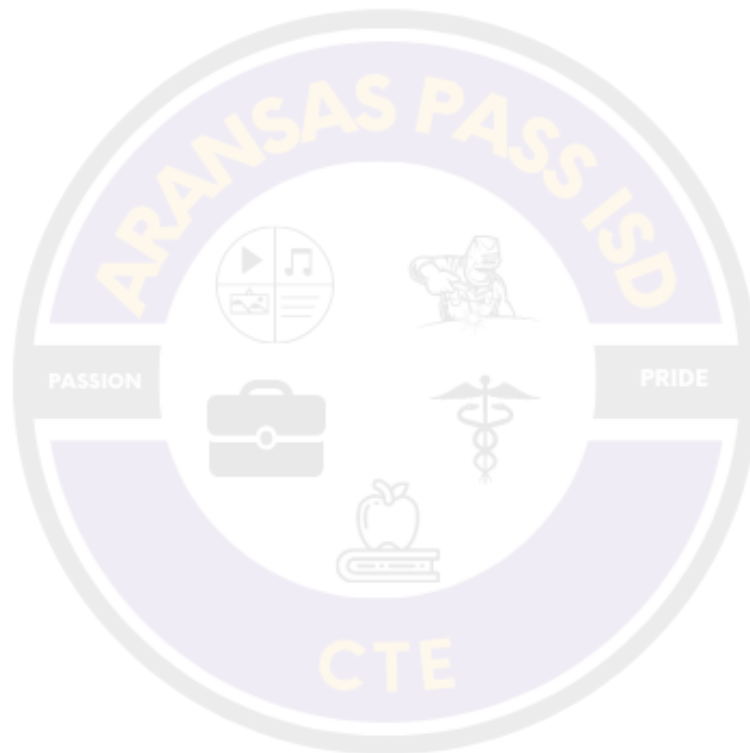
(PRACHLS1)

Grade Placement: 11-12

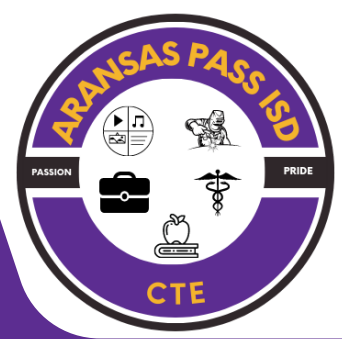
Credit: 2

Prerequisites: Health Science Theory and Biology

Level 4 Course



# Welding Program of Study



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.

## Welding Courses Sequence

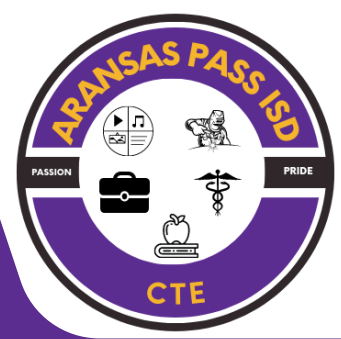
**Year 1 - Introduction to Welding**

**Year 2: Welding I**

**Year 3: Welding II**

**Year 4: Practicum in Manufacturing**

# Welding Courses



## **Introduction to Welding**

The curriculum offers skill development in oxyacetylene and electric welding of plate and pipe. Students have the opportunity to develop skills and understanding of related and technical industry.

PEIMS Code: 13032250 (PRINMAN)

Grade Placement: 9–10

Credit: 1

Recommended Prerequisite or Co-requisite: Algebra I

Level 1 Course

## **Welding I**

This course is a continuation of the Welding curriculum that offers a more in-depth development of oxy-acetylene and electric welding of plate and pipe. Students will have the opportunity to continue to develop skills and understanding of related and technical information associated with welding so that they can qualify to pass industry based certifications.

PEIMS Code: 13032300 (WELD1)

Grade Placement: 10–12

Credit: 2

Prerequisite: None.

Recommended Prerequisites: Algebra I, Introduction to Welding or Principles of Manufacturing

Level 2 Course

## **Welding II**

Advanced welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

PEIMS Code: 13032400 (WELD2)

Grade Placement: 11–12

Credit: 2

Prerequisites: Algebra 1 and Welding I

Level 3 Course

## **Practicum in Manufacturing**

This course is designed to give students supervised practical application of previously studies knowledge and skills. In the classroom portion of the course, students will gain knowledge of professional standards as required by business and industry. Students will also receive industry-recognized training designed to make them more marketable and desirable in the workplace. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

PEIMS Code: 13033000 (PRACMAN1)

Grade Placement: 12

Prerequisites: Welding I & Welding II

Level 4 Course