



Fort Stockton ISD
CTE

2022-2023 CTE Course List

Career and Technical Education

With Texas Student Data System PEIMS Codes and Descriptions

Adapted for Fort Stockton High School

08/04/22

College, Career and Military Preparation Division

Texas Education Agency

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Career Development

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General Employability Skills

TSDS PEIMS Code: N1270153 (GEMPLS)

Grade Placement: 9-12

Credit: 1

Prerequisites: None.

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time.

Career Preparation I

TSDS PEIMS Code: 12701300 (CAREERP1)

Grade Placement: 11–12

Credit: 2

Prerequisite: None.

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Career Preparation I/Extended Career Preparation

TSDS PEIMS Code: 12701305 (EXCAREE1)

Grade Placement: 12

Credit: 3

Prerequisite: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a Career Cluster related to the field in which the student will be employed.

Corequisites: Career Preparation I.

Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Career Preparation II

TSDS PEIMS Code: 12701400 (CAREERP2)

Grade Placement: 12

Credit: 2

Prerequisite: Career Preparation I.

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

Career Preparation II/Extended Career Preparation

TSDS PEIMS Code: 12701405 (EXCAREE2)

Grade Placement: 12

Credit: 3

Prerequisite: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a Career Cluster related to the field in which the student will be employed.

Corequisites: Career Preparation II.

Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.



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Agriculture, Food & Natural Resources

Principles of Agriculture, Food, and Natural Resources

TSDS PEIMS Code: 13000200 (PRINAFNR)

Grade Placement: 9–12

Credit: 1

Prerequisite: None.

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations.

Livestock Production

TSDS PEIMS Code: 13000300 (LIVEPROD)

Grade Placement: 10–12

Credit: 1

Prerequisite: None.

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Veterinary Medical Applications

TSDS PEIMS Code: 13000600 (VETMEDAP)

Grade Placement: 11–12

Credit: 1

Prerequisites: Equine Science, Small Animal Management, or Livestock Production.

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species.

Advanced Animal Science

TSDS PEIMS Code: 13000700

(ADVANSCI)

Grade Placement: 11–12

Credit: 1

Prerequisites: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production.

Recommended Prerequisite: Veterinary Medical Applications.

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

Advanced Plant and Soil Science

TSDS PEIMS Code: 13002100

(ADVPSSCI)

Grade Placement: 11–12

Credit: 1

Prerequisite: None.

Recommended Prerequisites: Biology, Integrated Physics and Chemistry, Chemistry, or Physics and a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster.

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.



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Architecture & Construction

Principles of Architecture

TSDS PEIMS Code: 13004210

(PRINARC)

Grade Placement: 9–12

Credit: 1

Prerequisite: None.

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

Principles of Construction

TSDS PEIMS Code: 13004220

(PRINCON)

Grade Placement: 9–12

Credit: 1

Prerequisite: None.

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

Construction Technology I

TSDS PEIMS Code: 13005100

(CONTECH1)

Grade Placement: 10–12

Credit: 2

Prerequisite: None.

Recommended Prerequisite: Principles of Construction or Principles of Architecture.

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. For safety and liability considerations, limiting course enrollment to 15 students is recommended.

Construction Technology II

TSDS PEIMS Code: 13005200

(CONTECH2)

Grade Placement: 11–12

Credit: 2

Prerequisite: Construction Technology I.

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish-out skills. For safety and liability considerations, limiting course enrollment to 15 students is recommended.



**Arts, A/V
Technology &
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**Arts, A/V
Technology &
Communications**

Commercial Photography I

TSDS PEIMS Code: 13009100 (CPHOTO1)

Grade Placement: 9–12

Credits: 1

Prerequisite: None.

Recommended Corequisite: [Commercial Photography I Lab](#).

In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

Commercial Photography I/Commercial Photography I Lab

TSDS PEIMS Code: 13009110 (CPHLAB1)

Grade Placement: 9–12

Credits: 2

Prerequisite: None.

Corequisite: [Commercial Photography I](#).

In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. Districts are encouraged to offer this lab in a consecutive block with Commercial Photography I to allow students sufficient time to master the content of both courses.

Commercial Photography II

TSDS PEIMS Code: 13009200

(CPHOTO2)

Grade Placement: 10–12

Credits: 1

Prerequisite: None.

Recommended Prerequisites: Commercial Photography I and Commercial Photography I Lab.

Recommended Corequisite: Commercial Photography Lab II.

In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Commercial Photography II/Commercial Photography II Lab

TSDS PEIMS Code: 13009210

(CPHLAB2)

Grade Placement: 10–12

Credits: 2

Prerequisite: None.

Recommended Prerequisites: Commercial Photography I and Commercial Photography I Lab.

Corequisite: Commercial Photography II.

In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Districts are encouraged to offer this lab in a consecutive block with Commercial Photography II to allow students sufficient time to master the content of both courses.

Graphic Design and Illustration I

TSDS PEIMS Code: 13008800 (GRAPHDI1)

Grade Placement: 10–12

Credits: 1

Prerequisite: None.

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

Recommended Corequisite: Graphic Design and Illustration I Lab.

Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

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

TSDS PEIMS Code: 13008810 (GRDLAB1)

Grade Placement: 10–12

Credits: 2

Prerequisite: None.

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

Corequisite: Graphic Design and Illustration I.

Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

Professional Communications

TSDS PEIMS Code: 13009900 (PROFCOMM)

Grade Placement: 9–12

Credits: .5 Prerequisite: None.

Professional Communications blends written, oral, and graphic communication in a career- based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct internet research.



Business Management & Administration

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Business Management & Administration

Principles of Business, Marketing, and Finance

TSDS PEIMS Code: 13011200 (PRINBMF)

Grade Placement: 9–11

Credits: 1

Prerequisite: None.

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Business Information Management I/Business Lab

TSDS PEIMS Code: 13011410 (BUSMLAB1)

Grade Placement: 9–12

Credits: 2

Prerequisite: None.

Corequisite: Business Information Management I.

Business Lab is designed to provide students an opportunity to further enhance previously studied knowledge and skills and may be used as an extension of Business Information Management I or Business Information Management II; it is a recommended corequisite course, and may not be offered as a stand-alone course. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Business Information Management II

TSDS PEIMS Code: 13011500 (BUSIM2)

Grade Placement: 10–12

Credits: 1

Prerequisite: Business Information Management I.

Recommended Prerequisite: Touch System Data Entry.

Recommended Corequisite: Business Lab.

In 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.

Business Information Management II/Business Lab

TSDS PEIMS Code: 13011510 (BUSMLAB2)

Grade Placement: 10–12

Credits: 2

Prerequisite: None.

Corequisite: Business Information Management II.

Business Lab is designed to provide students an opportunity to further enhance previously studied knowledge and skills and may be used as an extension of Business Information Management I or Business Information Management II; it is a recommended corequisite course, and may not be offered as a stand-alone course. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Business Management

TSDS PEIMS Code: 13012100 (BUSMGT)

Grade Placement: 10–12

Credits: 1

Prerequisite: None.

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

Global Business

TSDS PEIMS Code: 13011800 (GLOBBUS)

Grade Placement: 10–12

Credits: .5

Prerequisite: None.

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.

Statistics and Business Decision Making

TSDS PEIMS Code: 13016900 (STATBDM)

Grade Placement: 11–12

Credit: 1

Prerequisite: Algebra II.

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Note: This course satisfies a math credit requirement for students on the Foundation High School Program.



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Finance

Financial Mathematics

TSDS PEIMS Code: 13018000 (FINMATH)

Grade Placement: 10–12

Credit: 1

Prerequisite: Algebra I.

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.

Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

Banking and Financial Services

TSDS PEIMS Code: 13016300 (BANKFIN)

Grade Placement: 10–12

Credit: .5

Prerequisites: None.

Recommended Prerequisite: Principles of Business, Marketing, and Finance.

In Banking and Financial Services, students will develop knowledge and skills in the economic, financial, technological, international, social, and ethical aspects of banking to become competent employees and entrepreneurs. Students will incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society.

Statistics and Business Decision Making

TSDS PEIMS Code: 13016900 (STATBDM)

Grade Placement: 11–12

Credit: 1

Prerequisite: Algebra II.

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Note: This course satisfies a math credit requirement for students on the Foundation High School Program.



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Health Science

Principles of Health Science

TSDS PEIMS Code: 13020200 (PRINHLSC)

Grade Placement: 9–10

Credit: 1

Prerequisite: None.

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Medical Terminology

TSDS PEIMS Code: 13020300 (MEDTERM)

Grade Placement: 9–12

Credit: 1 Prerequisite: None.

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Anatomy and Physiology

TSDS PEIMS Code: 13020600 (ANATPHYS)

Grade Placement: 10–12

Credit: 1

Prerequisite: Biology and a second science credit.

Recommended Prerequisite: A course from the Health and Science Career Cluster.

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

Kinesiology I

TSDS PEIMS Code: N1302104

(KINES1)

Grade Placement: 9–10

Credit: 1

Prerequisites: None.

This course is designed to introduce students to the basic concepts of kinesiology. Students will gain an understanding of body mechanics, physiological functions of muscles and movements, the history of kinesiology, and the psychological impact of sports and athletic performance. Students will also explore careers within the kinesiology field and be able to explain the societal demand for kinesiology-related jobs. Students will develop a foundation in Kinesiology I that will prepare them for upper-level courses that will dive deeper into the anatomical and physiological functions of the body and provide opportunities for an industry-certified exam such as a certified personal trainer.

Health Science Theory/Health Science Clinical

TSDS PEIMS Code: 13020410

(HLSCLIN)

Grade Placement: 10–12

Credit: 2 Prerequisites:

Biology.

Corequisite: Health Science Theory.

The Health Science Clinical course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. Districts are encouraged to offer this course in a consecutive block with Health Science Theory to allow students sufficient time to master the content of both courses.



Hospitality & Tourism

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Hospitality & Tourism

Principles of Hospitality and Tourism

TSDS PEIMS Code: 13022200 (PRINHOSP)

Grade Placement: 9–12

Credit: 1

Prerequisite: None.

Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

Introduction to Culinary Arts

TSDS PEIMS Code: 13022550 (INCULART)

Grade Placement: 9–10

Credit: 1

Prerequisite: None.

Recommended Prerequisite: Principles of Hospitality and Tourism.

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

Culinary Arts

TSDS PEIMS Code: 13022600 (CULARTS)

Grade Placement: 10–12

Credit: 2

Prerequisite: None.

Recommended Prerequisites: Principles of Hospitality and Tourism and Introduction to Culinary Arts.

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques.

Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

Advanced Culinary Arts

TSDS PEIMS Code: 13022650

(ADCULART)

Grade Placement: 10–12

Credit: 2

Prerequisite: Culinary Arts.

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards to prepare students for success in higher education, certifications, and/or immediate employment.



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Human Services

Principles of Human Services

TSDS PEIMS Code: 13024200 (PRINHUSR)

Grade Placement: 9–12

Credit: 1

Prerequisite: None.

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

Child Development

TSDS PEIMS Code: 13024700 (CHILDDEV)

Grade Placement: 10–12

Credit: 1

Prerequisite: None.

Recommended Prerequisite: Principles of Human Services.

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.

Family and Community Services

TSDS PEIMS Code: 13024900 (FAMCOSRV)

Grade Placement: 10–12

Credit: 1

Prerequisite: None.

Recommended Prerequisite: Principles of Human Services.

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to

individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

Principles of Cosmetology Design and Color Theory

TSDS PEIMS Code: 13025050 (PRICOSMO)

Grade Placement: 9–10

Credit: 1

Prerequisites: None.

Recommended Prerequisite: Principles of Human Services.

In Principles of Cosmetology Design and Color Theory, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

Introduction to Cosmetology

TSDS PEIMS Code: 13025100 (INTCOSMO)

Grade Placement: 10

Credit: 1

Prerequisite: None.

In Introduction to Cosmetology, students explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements.

Microbiology and Safety for Cosmetology Careers

TSDS PEIMS Code: N1302540 (MICROS)

Grade Placement: 9-12

Credit: 1

Prerequisite: None.

Students who enroll in Microbiology and Safety for Cosmetology Careers will receive instruction in the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, identification of microorganisms, drug resistant organisms, and emerging diseases. Additionally, students will explore and apply concepts as they apply to the safety and health of individuals pursuing a career in cosmetology services. This course also includes an opportunity for students to solve an in-depth analytical problem concerning occupational health and safety in cosmetology.

Cosmetology I

TSDS PEIMS Code: 13025200 (COSMET1)

Grade Placement: 10–11

Credit: 2

Recommended Prerequisite: Introduction to Cosmetology.

Recommended Corequisite: Cosmetology I Lab

In Cosmetology I, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

Cosmetology I/Cosmetology I Lab

TSDS PEIMS Code: 13025210 (COSLAB1)

Grade Placement: 10-11

Credits: 1

Recommended prerequisite: Introduction to Cosmetology.

This course must be taken concurrently with Cosmetology I and may not be taken as a stand-alone course. Districts are encouraged to offer this lab in a consecutive block with Cosmetology I to allow students sufficient time to master the content of both courses.

Cosmetology I/Cosmetology I Lab provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students will be expected to demonstrate mastery in conducting the skills and techniques learned in Cosmetology I with little to no guidance.

Cosmetology II

TSDS PEIMS Code: 13025300 (COSMET2)

Grade Placement: 11–12

Credit: 2

Prerequisite: Cosmetology I.

Recommended Corequisite: Cosmetology II Lab

In Cosmetology II, students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies, and materials; and practical skills.

Cosmetology II/Cosmetology II Lab

TSDS PEIMS Code: 13025310 (COSLAB2)

Grade Placement: 11-12

Credits: 1

Prerequisites: Cosmetology I/Cosmetology I Lab

This course must be taken concurrently with Cosmetology II and may not be taken as a stand-alone course. Districts are encouraged to offer this lab in a consecutive block with Cosmetology II to allow students sufficient time to master the content of both courses.

Cosmetology II /Cosmetology II Lab provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students are expected to develop proficient and mastery level work samples and to expand their work experiences.



**Law,
Public Safety,
Corrections
& Security**

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Law, Public Safety, Corrections & Security

Principles of Law, Public Safety, Corrections, and Security

TSDS PEIMS Code: 13029200 (PRINLPCS)

Grade Placement: 9–12

Credit: 1

Prerequisite: None.

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

Law Enforcement I

TSDS PEIMS Code: 13029300 (LAWENF1)

Grade Placement: 10–12

Credit: 1

Prerequisite: None.

Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security.

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Law Enforcement II

TSDS PEIMS Code: 13029400 (LAWENF2)

Grade Placement: 10–12

Credit: 1

Prerequisite: None.

Recommended Prerequisite: Law Enforcement I.

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first

responder roles, telecommunications, emergency equipment operations, and courtroom testimony.

Criminal Investigation

TSDS PEIMS Code: 13029550 (CRINVEST)

Grade Placement: 10–12

Credit: 1

Prerequisite: None.

Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security.

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

Forensic Science

TSDS PEIMS Code: 13029500 (FORENSCI)

Grade Placement: 11–12

Credit: 1

Prerequisites: Biology and Chemistry.

Recommended Prerequisite or Corequisite: Any Law, Public Safety, Corrections, and Security Career Cluster course.

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science and understand that scientific methods of investigation can be experimental, descriptive, or comparative.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.



Manufacturing

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Manufacturing

Introduction to Welding

TSDS PEIMS Code: 13032250

(INTRWELD)

Grade Placement: 9–12

Credit: 1 Prerequisite: None.

Recommended Prerequisite or Corequisite: Algebra I.

Introduction to Welding will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.

Welding I

TSDS PEIMS Code: 13032300

(WELD1)

Grade Placement: 10–12

Credit: 2 Prerequisite: None.

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

Welding I provide the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

Welding II

TSDS PEIMS Code: 13032400 (WELD2)

Grade Placement: 11–12

Credit: 2

Prerequisites: Welding I.

Recommended Prerequisites: Algebra I or Geometry. Recommended Corequisite: Welding II Lab.

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate 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.

Welding II Lab

TSDS PEIMS Code: 13032410 (WELDLAB2)

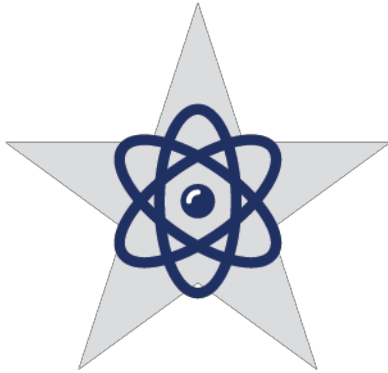
Grade Placement: 11–12

Credit: 3

Prerequisites: Welding I.

Corequisites: Welding II.

Welding II Lab introduces welding technology with an emphasis on basic welding laboratory principles and operating procedures. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. This course provides knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.



**Science,
Technology,
Engineering &
Mathematics**

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Science, Technology, Engineering & Mathematics

Principles of Technology

TSDS PEIMS Code: 13037100

(PRINTECH)

Grade Placement: 10–12

Credit: 1

Prerequisites: One credit of high school science and Algebra I.

In Principles of Technology, students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

AC/DC Electronics

TSDS PEIMS Code: 13036800

(ACDCELEC)

Grade Placement: 10–12

Credit: 1

Prerequisite: None.

Recommended Prerequisite: Principles of Applied Engineering.

AC/DC Electronics focuses on the basic electricity principles of alternating current/direct current (AC/DC) circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer academic skills to component designs in a project-based environment. Students will use a variety of computer hardware and software applications to complete assignments and projects. Additionally, students will explore career opportunities, employer expectations, and educational needs in the electronics industry.

Engineering Design and Problem Solving

TSDS PEIMS Code: 13037300 (ENGDPRS)

Grade Placement: 11–12

Credit: 1

Prerequisites: Algebra I and Geometry.

Recommended Prerequisites: two Science, Technology, Engineering, and Mathematics Career Cluster credits.

The Engineering Design and Problem-Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

Scientific Research and Design

TSDS PEIMS Code:

13037200 (First Time Taken) (SCRID)

13037210 (Second Time Taken) (SCRID2)

13037220 (Third Time Taken) (SCRID3)

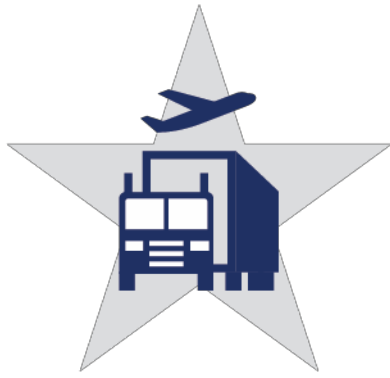
Grade Placement: 11–12

Credit: 1

Prerequisite: Biology, Chemistry, Integrated Physics, Chemistry (IPC), or Physics.

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. Students must meet the 40% laboratory and fieldwork requirement. Students may take this course with different course content for a maximum of three credits.

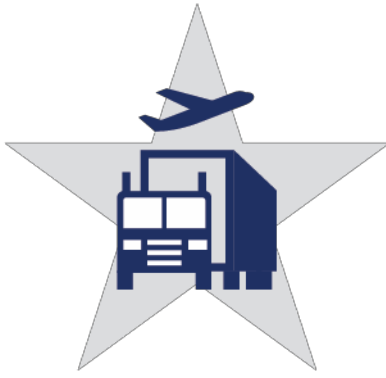
Note: This course satisfies a science credit requirement for students on the Foundation High School Program.



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Transportation, Distribution & Logistics

Automotive Basics

TSDS PEIMS Code: 13039550

(AUTOBASC)

Grade Placement: 9–12

Credit: 1

Prerequisite: None.

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Automotive Technology I: Maintenance and Light Repair

TSDS PEIMS Code: 13039600

(AUTOTEC1)

Grade Placement: 9–12

Credit: 2

Prerequisite: None.

Recommended Prerequisites: Automotive Basics.

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Automotive Technology II: Automotive Service

TSDS PEIMS Code: 13039700

(AUTOTEC2)

Grade Placement: 11–12

Credit: 2

Prerequisites: Automotive Technology I: Maintenance and Light Repair.

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems.

Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.