CENTER HIGH SCHOOL
CTE COURSE INFORMATION

CHS CAREER SERVICES | CHS CAREER/COLLEGE CENTER

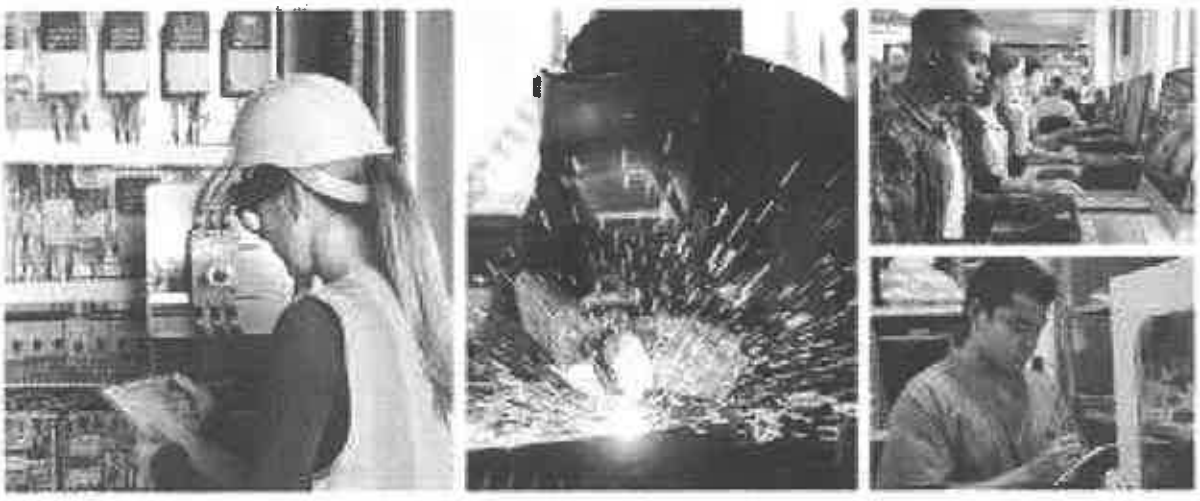

TABLE OF CONTENTS

AGRICULTURE SCIENCE

(Upper level courses can change or alternate years.)

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.

Agribusiness Management and Marketing

TSDS PEIMS Code: 13000900(AGRBUSMM)
Grade Placement: 10–12
Credit: 1 Prerequisite: None.
Agribusiness Management and Marketing is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness.

Equine Science

TSDS PEIMS Code: 13000500(EQUINSCI)
Grade Placement: 10–12
Credit: .5 Prerequisite: None
In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules.

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.

Small Animal Management

TSDS PEIMS Code: 13000400(SMANIMGT)
Grade Placement: 10–12
Credit: .5
Prerequisite: None.
In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management

may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.

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.

Wildlife, Fisheries, and Ecology Management

TSDS PEIMS Code: 13001500(WFECGT)
Grade Placement: 9–12
Credit: 1
Prerequisite: None.
Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Forestry and Woodland Ecosystems

TSDS PEIMS Code: 13001700(FWECO)
Grade Placement: 10–12
Credit: 1
Prerequisite: None.
Forestry and Woodland Ecosystems examines current management practices for forestry and woodlands. Special emphasis is given to management as it relates to ecological requirements and how these practices impact the environment.

Floral Design

TSDS PEIMS Code: 13001800(FLORAL)
Grade Placement: 9–12
Credit: 1
Prerequisite: None.
Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. Note: This course satisfies a fine arts credit requirement for students on the Foundation High School Program.

Agricultural Mechanics and Metal Technologies

TSDS PEIMS Code: 13002200(AGMECHMT)
Grade Placement: 10–12
Credit: 1
Prerequisite: None. Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources.
Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.

Agricultural Structures Design and Fabrication

TSDS PEIMS Code: 13002300(AGSDF)
Grade Placement: 11–12
Credit: 1
Prerequisite: None. Recommended Prerequisites: Agricultural Mechanics and Metal Technologies.
In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.

Agricultural Equipment Design and Fabrication

TSDS PEIMS Code: 13002350(AGEQDF)

Grade Placement: 11–12

Credit: 1 Prerequisite: None. Recommended Prerequisites: Agricultural Mechanics and Metal Technologies.

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment.

INTERESTED? What sequence of courses would you take?

1.

2.

3.

4.

5.

ARCHITECTURE AND CONTRUCTION

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.

Practicum in Construction Technology

TSDS PEIMS Code:13005250 (First Time Taken)
13005260 (Second Time Taken)
Grade Placement: 12
Credit: 2(PRACCT1) (PRACCT2)
Prerequisites: Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology.
In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

INTERESTED? What sequence would you follow?

1.

2.

3.

4.

ARTS, A/V TECHNOLOGY AND COMMUNICATIONS

Communications/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.

Principles of Arts, Audio/Video Technology, and Communications

TSDS PEIMS Code: 13008200(PRINAAVTC)
Grade Placement: 9
Credits: 1
Prerequisite: None.
The goal of this course is for 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.

Audio/Video Production I

TSDS PEIMS Code: 13008500(AVPROD1)
Grade Placement: 9–12
Credits: 1
Prerequisite: None.
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications. Recommended Co-requisite: Audio/Video Production I Lab.
In addition to developing technical 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 pre-production, production, and post-production audio and video products.

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 Co-requisite: 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 II/Graphic Design and Illustration II Lab

TSDS PEIMS Code: 13008910(GRDLAB2)
Grade Placement: 10–12
Credits: 2
Prerequisite: Graphic Design and Illustration I. Co-requisites: Graphic Design and Illustration II.
Within this context, 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 understanding of the industry with a focus on mastery of content knowledge and skills. Districts are encouraged to offer this lab in a consecutive block with Graphic Design and Illustration II to allow students sufficient time to master the content of both courses.

Practicum in Graphic Design and Illustration

TSDS PEIMS Code:13009000 (First Time Taken)(PRACGRD1)
13009010 (Second Time Taken)(PRACGRD2)
Grade Placement: 12
Credits: 2
Prerequisites: Graphic Design and Illustration II and Graphic Design and Illustration II Lab.
In addition to developing 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. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

INTERESTED? What sequence would you take?

1.

2.

3.

4.

5.

BUSINESS, MARKETING AND FINANCE

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 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.

Business Law (Taught Dual credit only)

TSDS PEIMS Code: 13011700(BUSLAW)
Grade Placement: 11–12
Credits: 1 Prerequisite: None.
Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

Business Information Management I (Taught online via the TLC)

TSDS PEIMS Code: 13011400(BUSIM1)
Grade Placement: 9–12
Credits: 1
Prerequisite: None. Recommended Prerequisite: Touch System Data Entry.
Recommended Co-requisite: Business Lab.
In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. 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.

Practicum in Business Management

TSDS PEIMS Code:13012200 (First Time Taken)(PRACBM)
13012210 (Second Time Taken)(PRACBM2)
Grade Placement: 11–12
Credits: 2
Prerequisite: None. Recommended Prerequisites: Touch System Data Entry and Business Management or Business Information Management II.

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. 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 develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. 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.

Money Matters (Taught online)

TSDS PEIMS Code: 13016200(MONEYM)
Grade Placement: 9–12
Credit: 1
Prerequisite: None.
Recommended Prerequisites: Principles of Business, Marketing, and Finance.
In Money Matters, students will investigate money management from a personal financial perceptive. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

Accounting I

TSDS PEIMS Code: 13016600(ACCOUNT1)
Grade Placement: 10–12
Credit: 1
Prerequisites: None.
Recommended Prerequisites: Principles of Business, Marketing, and Finance.
In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use management decision making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

Accounting II

TSDS PEIMS Code: 13016700(ACCOUNT2)
Grade Placement: 11–12
Credit: 1
Prerequisites: Accounting I.
In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources. Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

INTERESTED IN BUSINESS, MARKETING AND FINANCE? What sequence would you take?

1.

2.

3.

4.

5.

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.

Health Science Theory

TSDS PEIMS Code: 13020400(HLTHSCI)
Grade Placement: 10–12
Credit: 1
Prerequisites: Biology.
The Health Science Theory 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.

Pathophysiology (Taught via the TLC online.)

TSDS PEIMS Code: 13020800(PATHO)
Grade Placement: 11–12
Credit: 1
Prerequisites: Biology and Chemistry.
Recommended Prerequisite: A course from the Health and Science Career Cluster.
The Pathophysiology 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 Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.
Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable. Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

Anatomy and Physiology (Taught online in the TLC for HS credit or dual for college credit).

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.

Practicum in Health Science (Phlebotomy Tech, Certified Nurse Aid)

TSDS PEIMS Code:13020500 (First Time Taken)(PRACHLS1) 13020510 (Second Time Taken)(PRACHLS2)
Grade Placement: 11–12
Credit: 2
Prerequisites: Health Science Theory and Biology.
The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

INTERESTED? What sequence will you follow?

1.

2.

3.

4.

5.

HOSPITALITY AND TOURISM

Principles of Hospitality and Tourism

TSDS PEIMS Code: 13022200(PRINHOSP)
Grade Placement: 9-10
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
Recommended Prerequisites: Principles of Hospitality and Tourism OR 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.

Practicum in Culinary Arts

TSDS PEIMS Code:13022700 (First Time Taken)(PRACCUL1) 13022710 (Second Time Taken)(PRACCUL2)
Grade Placement: 11–12
Credit: 2
Prerequisite: Culinary Arts.
Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing culinary art based workplace.

INTERESTED? What sequence will you follow?

1.

2.

3.

4.

5.

INFORMATION TECHNOLOGY

Principles of Information Technology

TSDS PEIMS Code: 13027200(PRINIT)
Grade Placement: 9–10
Credit: 1
Prerequisites: None
In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Digital Media

TSDS PEIMS Code: 13027800 (Taught online in the TLC via TxVSN)
Grade Placement: 9–12
Credit: 1
Prerequisite: None other than teacher approval.
In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

Computer Programming I (Online only)

TSDS PEIMS Code: 13027600(COMPPRO1)
Grade Placement: 10–12
Credit: 1
Prerequisite: None.
Recommended Prerequisites: Principles of Information Technology and Algebra I.
In Computer Programming I, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

Computer Programming II (Online only.)

TSDS PEIMS Code: 13027700(COMPPRO2)
Grade Placement: 11–12
Credit: 1
Prerequisite: None.
Recommended Prerequisites: Principles of Information Technology and Computer Programming I.
In Computer Programming II, students will expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students will analyze the social responsibility of business and industry regarding the significant issues relating to environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

INTERESTED? List the sequence below:

1.

2,

3.

4.

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

Note: CHS currently offers two courses in this area.

Principles of Law, Public Safety, Corrections, and Security (Online)

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.

Forensic Science

TSDS PEIMS Code: 13029500(FORENSCI) – (Online only)
Grade Placement: 11–12
Credit: 1
Prerequisites: Biology and Chemistry.
Recommended Prerequisite or Co-requisite: 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. Scientific methods of investigation can be experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked. Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

MANUFACTURING

Introduction to Welding

TSDS PEIMS Code: 13032250(INTRWELD)
Grade Placement: 9–10
Credit: 1
Prerequisite: None. Ag teachers often recommend Prin of Agriculture.
Recommended Prerequisite or Co-requisite: 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.

Practicum in Manufacturing

TSDS PEIMS Code:13033000 (First Time Taken)(PRACMAN1)
13033010 (Second Time Taken)(PRACMAN2)
Grade Placement: 12
Credit: 2
Prerequisite: None.
The Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

INTERESTED? List the sequence below:

1.

2.

3.

4.

CAREER PREPARATION

Juniors and seniors may participate in the Career Preparation Work Program if criteria are met.

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. Co-requisites: 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. Co-requisites: 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.

INDUSTRY-BASED CERTIFICATIONS

Programs of study can lead to the completion of Industry-Based Certifications via an exam or opportunities for dual credit college courses and a Level 1 or Level 2 certification. Available certifications can vary; however, below is a list of current certifications targeted at Center High School

Program of Study	Certification
Agricultural Science	Texas State Floral Assoc. Level One Floral Certification
	Osha 30 Hr. Gt Quick General Industry
	Licensed Veterinary Technician
Architecture and Construction	NCCER Core Curriculum
	NCCER Carpentry, Level 1
Arts, AV and Technology	Adobe Certified – Illustrator
Business, Marketing & Finance	Intuit Quick Books
Health Science	Certified Nurse Aide (CNA)
	Certified Medical Assistant (CMA)
	Phlebotomy Technician
Hospitality & Tourism	ServeSafe Food Manager
Manufacturing – Welding	AWS D1.1 Structural Steel
	AWS D9.1 Sheet Metal
	NCCER Core